

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533406

Luminaire Tested: **GALN-SA8D-750-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-750-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52947 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

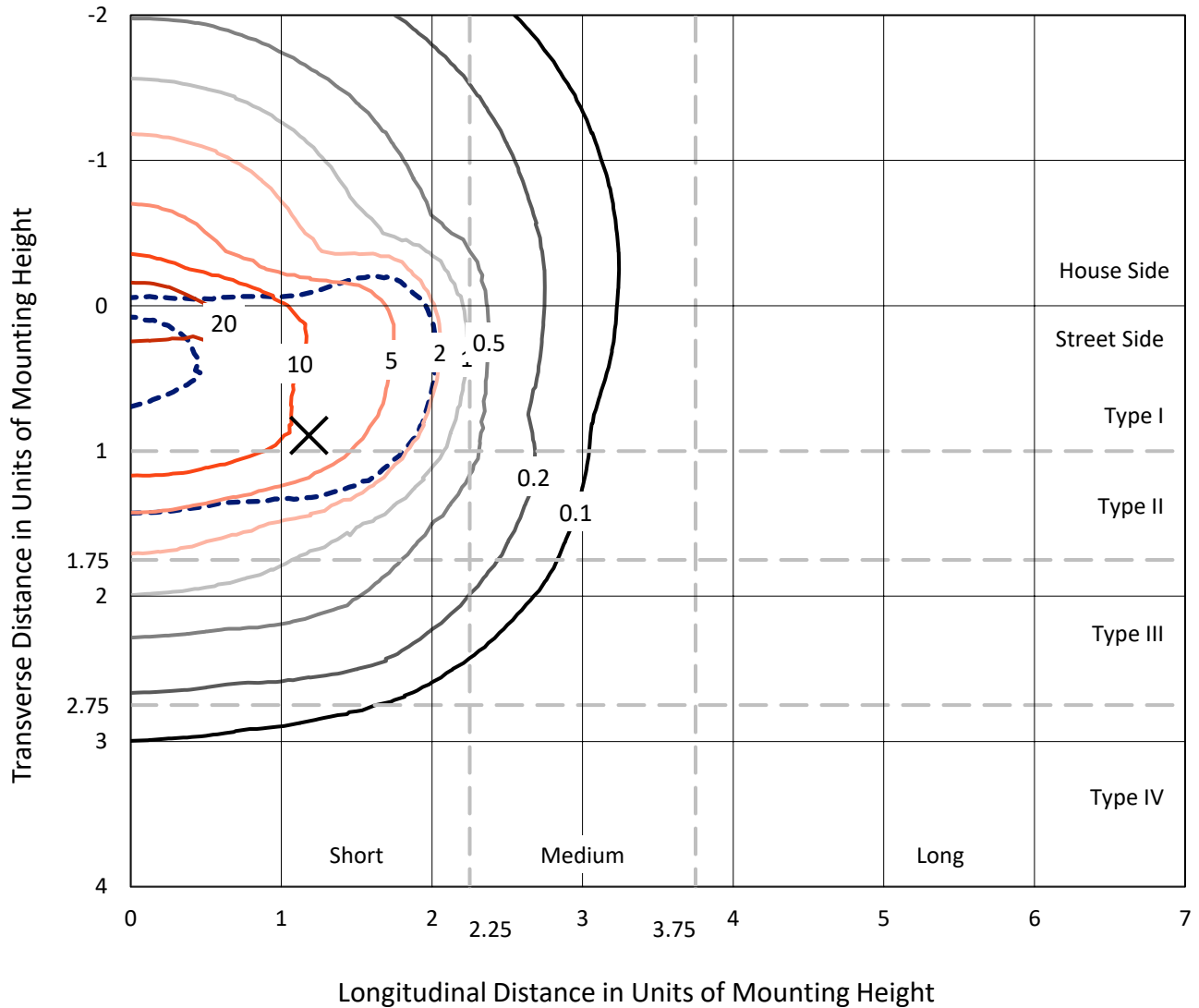
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

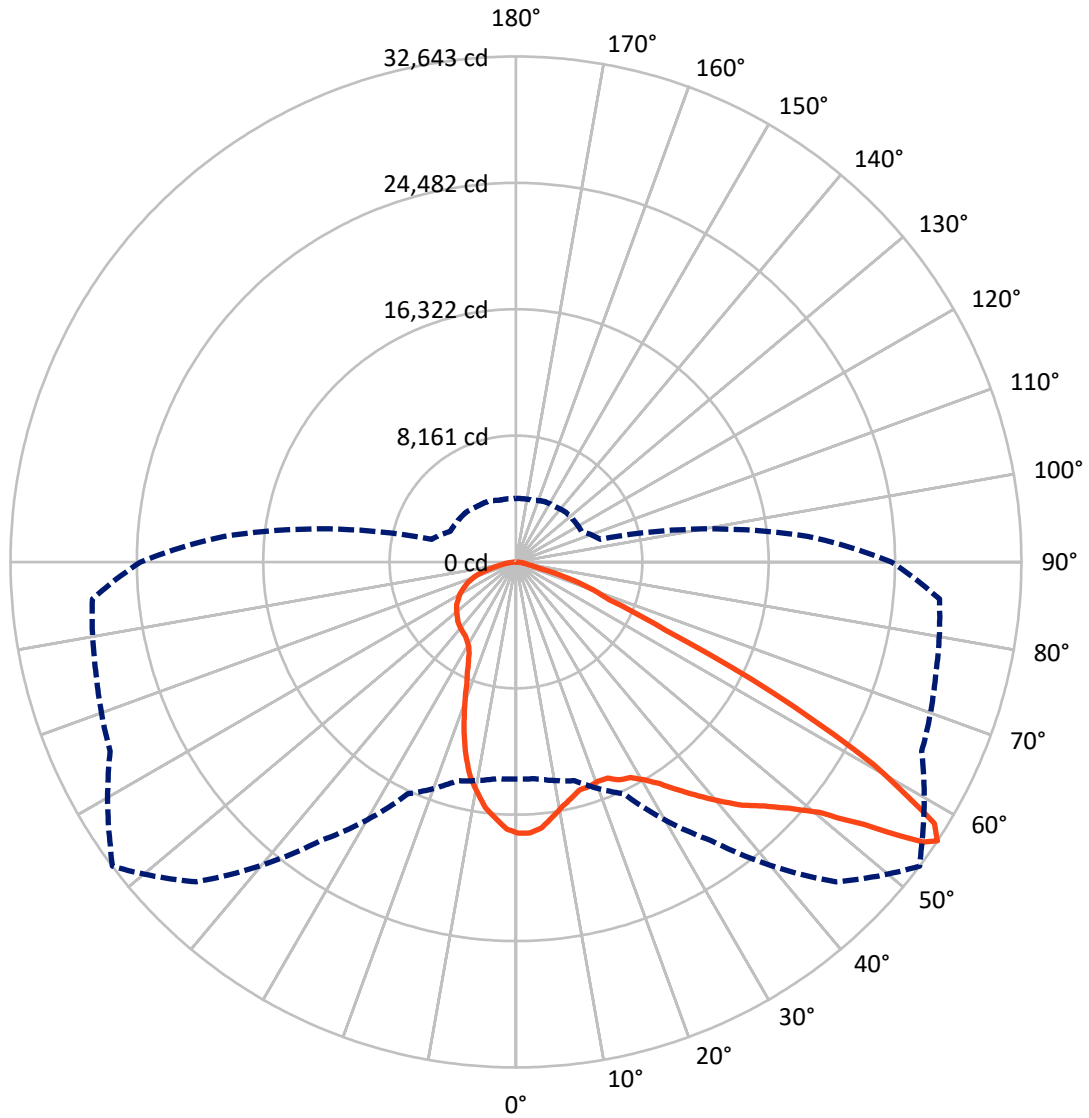
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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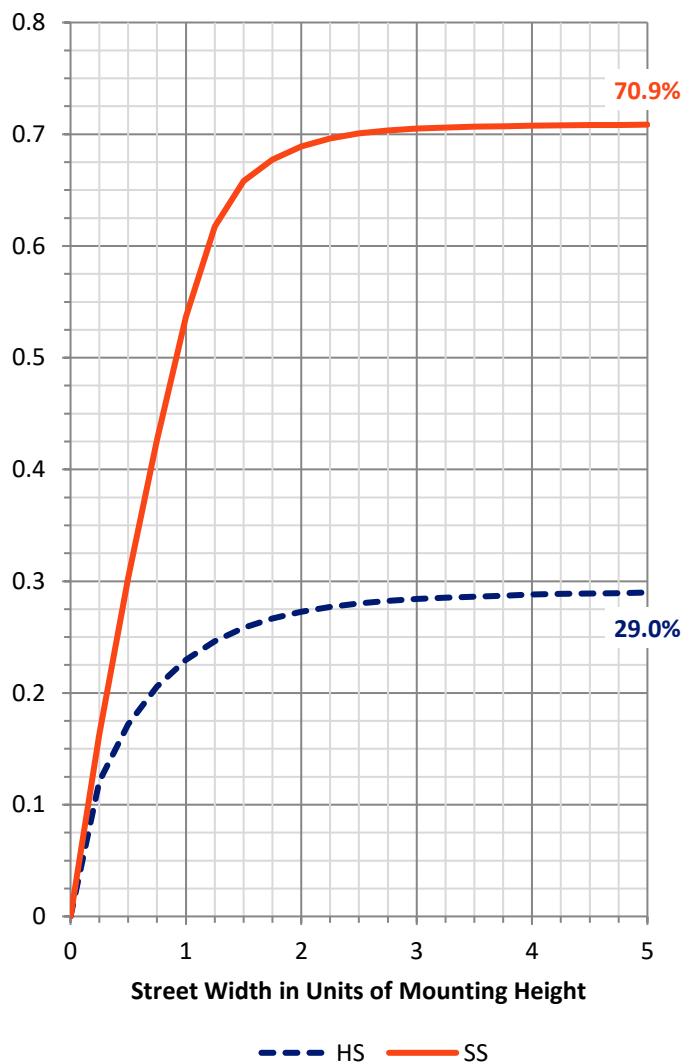
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15451.1	0.0	15451.1
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	37495.9	0.0	37495.9
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	52947.0	0.0	52947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1550.7	2.9
10°-20°	3873.1	7.3
20°-30°	5711.2	10.8
30°-40°	8160.2	15.4
40°-50°	11231.5	21.2
50°-60°	13272.6	25.1
60°-70°	7073.4	13.4
70°-80°	1794.5	3.4
80°-90°	279.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52947.0	100.0
0°-180°	52947.0	100.0

**Coefficient of Utilization**

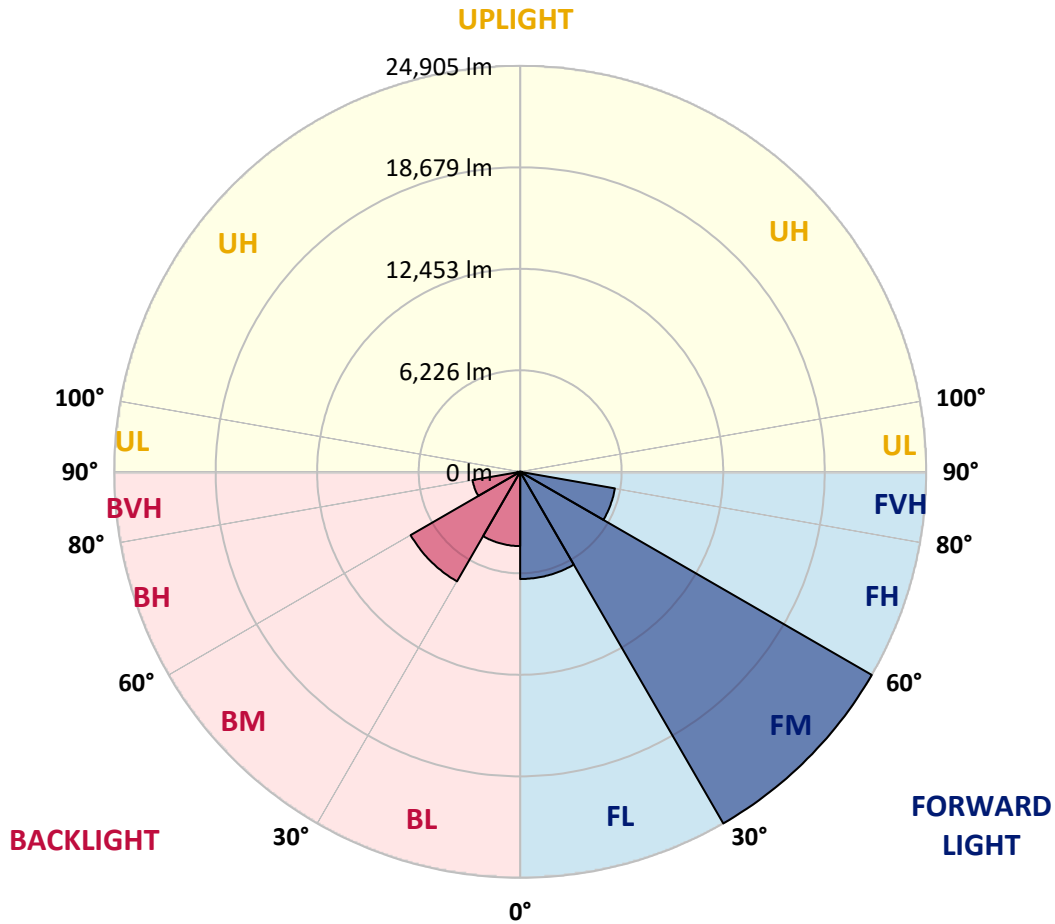


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6577.9	12.4			
FM (30°-60°)	24905.2	47.0			
FH (60°-80°)	5900.3	11.1			G3/7500
FVH (80°-90°)	112.5	0.2			G2/225
BL (0°-30°)	4557.2	8.6	B4/5000		
BM (30°-60°)	7759.0	14.7	B4/8500		
BH (60°-80°)	2967.6	5.6	B4/5000		G4/5000
BVH (80°-90°)	167.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0
2.5°	17299.6	17150.2	17238.5	17204.5	17483.0	17564.5	17523.7	17557.7	17713.9	17639.2	17483.0
5°	16165.3	16375.9	16416.6	16518.5	16681.5	17000.8	17252.1	17320.0	17394.7	17741.1	17707.1
7.5°	15132.9	15275.5	15200.8	15499.7	15852.9	16369.1	16674.7	16729.1	17415.1	17605.3	17747.9
10°	14480.9	14338.2	14677.8	14759.3	15160.1	15751.0	16117.8	16341.9	16966.8	17720.7	17809.0
12.5°	13876.4	13828.8	14032.6	14263.5	14711.8	15323.1	15696.7	15785.0	16749.4	17544.1	17958.4
15°	13428.1	13373.7	13577.5	13747.3	14270.3	14813.7	15289.1	15540.4	16511.7	17442.2	17829.4
17.5°	13074.9	13068.1	13183.6	13489.2	14025.8	14480.9	15248.4	15262.0	16389.5	17598.5	17938.1
20°	13054.5	13047.7	13068.1	13407.7	13896.7	14453.7	15119.3	15241.6	16389.5	17489.8	17944.9
22.5°	13224.3	13115.6	13237.9	13455.2	13808.4	14501.2	15166.9	15438.6	16783.4	18026.4	18250.5
25°	13496.0	13523.2	13591.1	13665.8	13869.6	14609.9	15588.0	15812.1	17245.3	18488.2	18671.6
27.5°	13991.8	13978.2	14005.4	14046.2	14222.8	14711.8	15757.8	16335.1	18209.8	19310.1	19126.7
30°	14718.6	14671.0	14779.7	14922.4	14759.3	15037.8	16321.5	16756.2	19106.3	20138.7	19636.1
32.5°	15377.4	15554.0	15757.8	15818.9	15621.9	15676.3	17068.7	17510.2	19853.5	21157.5	20261.0
35°	16199.3	16341.9	16613.6	16803.8	16769.8	16606.8	18087.5	18671.6	20933.4	21904.7	20919.8
37.5°	17000.8	17170.6	17618.8	18182.6	17870.1	17795.4	19174.2	19656.5	21266.2	22305.4	21402.1
40°	18291.3	18284.5	19058.8	19350.8	19629.3	19500.3	20301.7	20464.7	21442.8	22217.1	21415.6
42.5°	19805.9	19710.8	20498.7	20953.8	21313.8	21327.4	21476.8	21422.4	21524.3	21768.8	21273.0
45°	21245.8	21449.6	22244.3	23059.3	23419.3	23460.1	22468.4	22366.5	21667.0	21639.8	21001.3
47.5°	23005.0	23052.6	23704.6	24777.8	25613.2	25327.9	23752.1	23528.0	22291.8	22502.4	21456.4
50°	23106.9	23460.1	24044.2	25307.6	27875.0	27800.3	25416.2	24995.1	23297.1	23725.0	22726.5
52.5°	20974.2	20892.7	21585.5	23650.3	27705.2	30259.0	28173.8	27168.6	25457.0	25131.0	24784.6
55°	15981.9	16172.1	16783.4	18868.6	24057.8	30293.0	31929.9	31108.0	27766.3	27209.4	26808.6
56°	14019.0	14046.2	14623.5	16525.3	21952.2	29213.0	32643.1	31977.4	28914.2	28065.2	27453.9
57.5°	11621.4	11465.1	11764.0	12803.2	18529.0	26930.9	31862.0	32514.0	30259.0	28988.9	28139.9
60°	9149.0	9115.1	8992.8	9183.0	11709.7	20288.2	26523.3	27990.4	30123.2	28119.5	26951.3
62.5°	7471.4	7301.6	7546.1	7817.8	8137.0	12585.9	18637.7	19500.3	23915.2	22448.1	20247.4
65°	5793.7	5712.2	6017.8	6900.8	7091.0	7994.4	10616.1	11281.8	14120.9	13869.6	12212.3
67.5°	3987.0	4000.6	4265.5	5610.3	6574.8	6493.3	6500.1	6846.5	7369.5	5474.5	4768.1
70°	2526.7	2519.9	2662.5	3613.4	5291.1	5345.4	5073.7	4971.9	4713.8	2852.7	3022.5
72.5°	1623.3	1575.8	1650.5	1996.9	2737.2	3165.1	3260.2	3321.4	2730.4	2241.4	2431.6
75°	916.9	869.4	842.2	930.5	1080.0	1249.8	1372.0	1412.8	1582.6	1698.0	1799.9
77.5°	278.5	251.3	305.6	407.5	536.6	720.0	876.2	903.4	1066.4	1202.2	1304.1
80°	122.3	135.8	190.2	271.7	380.4	509.4	618.1	658.8	767.5	869.4	896.6
82.5°	74.7	81.5	129.1	183.4	264.9	360.0	441.5	455.1	563.7	645.3	665.6
85°	27.2	34.0	67.9	108.7	169.8	230.9	230.9	251.3	230.9	230.9	251.3
87.5°	0.0	0.0	6.8	13.6	13.6	20.4	27.2	27.2	34.0	40.8	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0	17517.0
2.5°	17564.5	17530.5	17476.2	17279.2	17258.9	17197.7	16858.1	16803.8	16858.1	16695.1	16708.7
5°	17530.5	17632.4	17224.9	17027.9	16661.1	16396.2	16090.6	15934.4	15655.9	15479.3	15676.3
7.5°	17680.0	17639.2	17129.8	16701.9	16151.7	15479.3	14942.7	14637.1	14148.0	14012.2	14114.1
10°	17625.6	17408.3	16810.6	16246.8	15207.6	14616.7	13747.3	12905.1	12443.2	12205.5	12171.5
12.5°	17550.9	17489.8	16491.3	15520.1	14426.5	13183.6	11961.0	11166.3	10412.4	10086.3	10133.9
15°	17639.2	17123.0	15893.6	14664.3	13210.7	11580.6	10262.9	9237.3	8714.3	8503.8	8503.8
17.5°	17598.5	16946.4	15608.4	13706.6	11865.9	9936.9	8490.2	7872.1	7654.8	7654.8	7715.9
20°	17618.8	17061.9	15031.0	12748.9	10276.5	8367.9	7315.1	7091.0	7186.1	7220.1	7254.0
22.5°	17734.3	16681.5	14467.3	11696.1	8802.6	7158.9	6642.7	6649.5	6819.3	7002.7	6968.7
25°	17876.9	16532.1	13781.3	10650.1	7675.1	6568.0	6405.0	6384.6	6513.7	6608.8	6622.3
27.5°	17754.7	16274.0	13081.7	9346.0	6751.4	6174.1	6140.1	6153.7	6194.4	6384.6	6323.5
30°	18155.4	16348.7	12205.5	8252.5	6242.0	6045.0	6004.3	5983.9	6045.0	6099.4	6051.8
32.5°	18651.2	16083.8	11553.4	7199.7	5990.7	5949.9	5868.4	5841.2	5875.2	5820.9	5848.0
35°	18868.6	16036.3	10704.4	6445.8	5793.7	5759.7	5712.2	5705.4	5712.2	5664.7	5623.9
37.5°	18990.9	16260.4	9733.2	6099.4	5671.4	5705.4	5596.7	5583.1	5460.9	5488.1	5508.4
40°	19201.4	15914.0	8945.3	5766.5	5596.7	5528.8	5433.7	5413.3	5331.8	5284.3	5331.8
42.5°	18895.8	15812.1	8171.0	5623.9	5488.1	5413.3	5345.4	5230.0	5202.8	5162.0	5134.9
45°	18651.2	15228.0	7478.2	5447.3	5359.0	5318.3	5189.2	5066.9	4965.1	5005.8	4944.7
47.5°	18834.6	15024.2	6792.1	5297.9	5182.4	5134.9	5005.8	4910.7	4808.8	4761.3	4747.7
50°	19568.2	15404.6	6214.8	5189.2	5033.0	5005.8	4836.0	4727.3	4632.2	4598.3	4611.9
52.5°	21320.6	16443.8	5820.9	4965.1	4890.3	4768.1	4673.0	4537.2	4476.0	4367.4	4435.3
55°	23541.6	18135.0	5719.0	4754.5	4713.8	4605.1	4476.0	4374.1	4258.7	4170.4	4150.0
56°	24254.8	18943.3	5637.5	4673.0	4605.1	4543.9	4374.1	4313.0	4129.6	4109.3	4095.7
57.5°	24832.1	19656.5	5651.1	4516.8	4448.9	4394.5	4292.6	4143.2	4021.0	3946.2	3980.2
60°	23528.0	18399.9	5393.0	4279.1	4265.5	4163.6	4021.0	3953.0	3803.6	3715.3	3694.9
62.5°	17489.8	12490.8	4374.1	3973.4	3966.6	3857.9	3694.9	3620.2	3593.0	3470.8	3470.8
65°	10072.8	7831.3	3783.2	3722.1	3667.8	3559.1	3396.1	3334.9	3267.0	3226.3	3192.3
67.5°	4299.4	4061.7	3436.8	3430.0	3368.9	3233.1	3070.1	2975.0	2886.7	2805.2	2845.9
70°	3117.6	3165.1	3104.0	3070.1	2995.3	2825.5	2682.9	2567.4	2431.6	2377.3	2418.0
72.5°	2472.3	2574.2	2662.5	2669.3	2581.0	2384.0	2227.8	2071.6	1922.2	1847.5	1881.4
75°	1874.6	1942.6	2030.9	2051.2	1922.2	1786.3	1636.9	1473.9	1358.4	1270.1	1283.7
77.5°	1351.6	1338.1	1419.6	1406.0	1344.8	1249.8	1113.9	964.5	835.4	753.9	760.7
80°	923.7	944.1	991.7	984.9	910.1	849.0	747.1	624.9	529.8	461.9	448.3
82.5°	645.3	679.2	720.0	686.0	624.9	563.7	489.0	400.7	326.0	271.7	258.1
85°	230.9	264.9	305.6	326.0	346.4	332.8	278.5	224.1	163.0	135.8	129.1
87.5°	47.5	54.3	61.1	61.1	61.1	54.3	47.5	47.5	40.8	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)