

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: P534344

Luminaire Tested: **GALN-SA9D-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-750-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

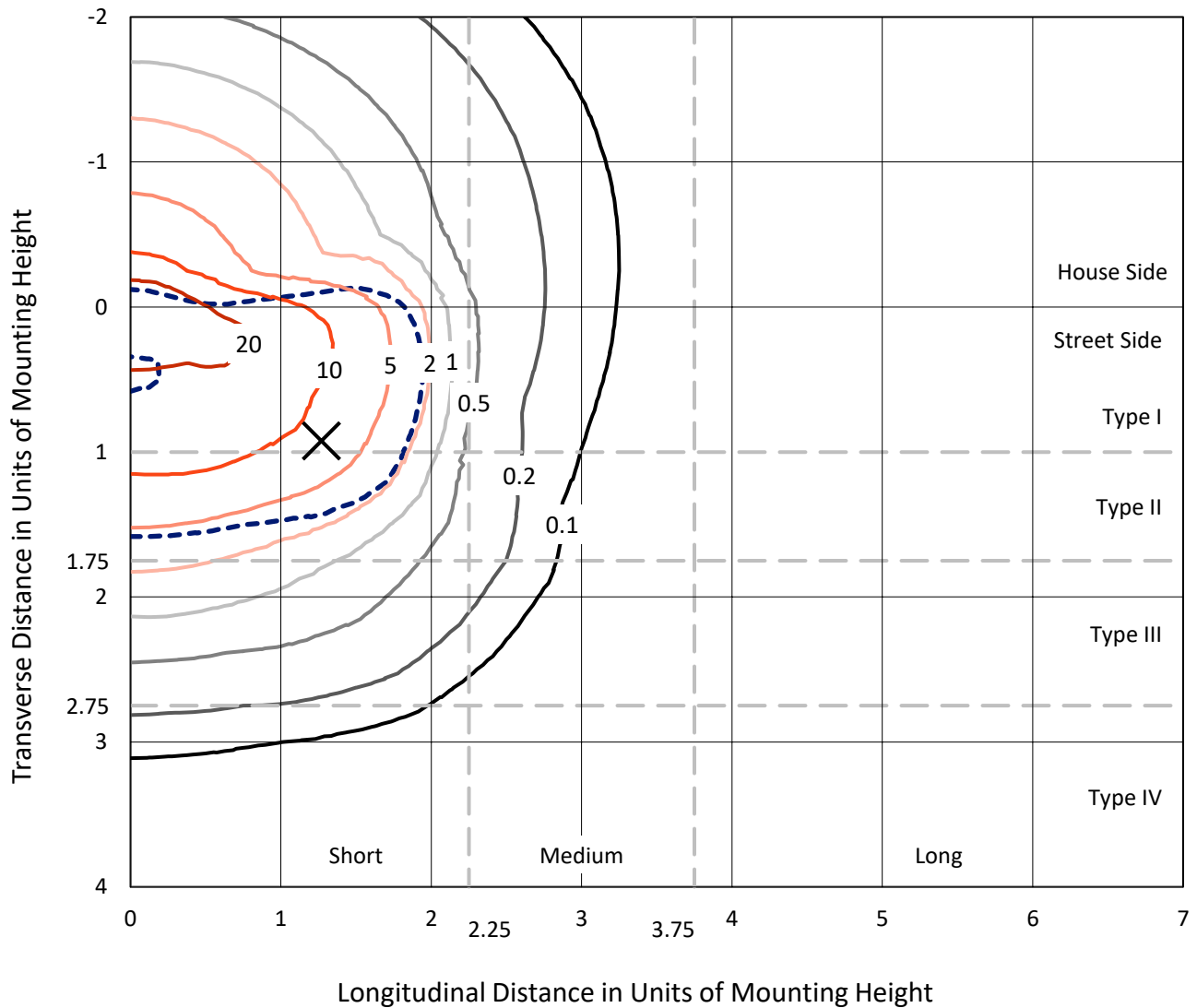
Lumens per Lamp: N/A  
Luminaire Lumens: 59330 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

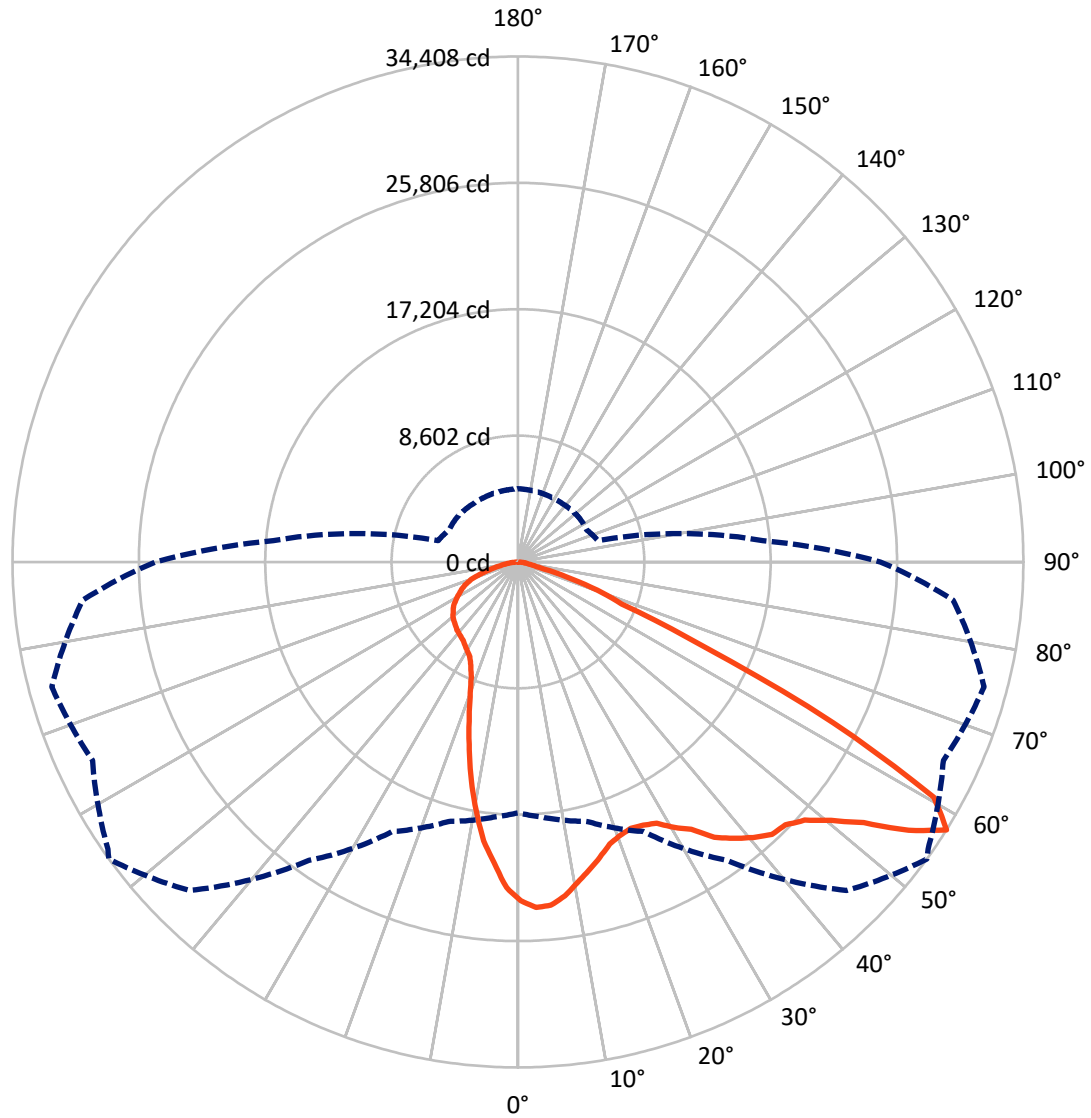
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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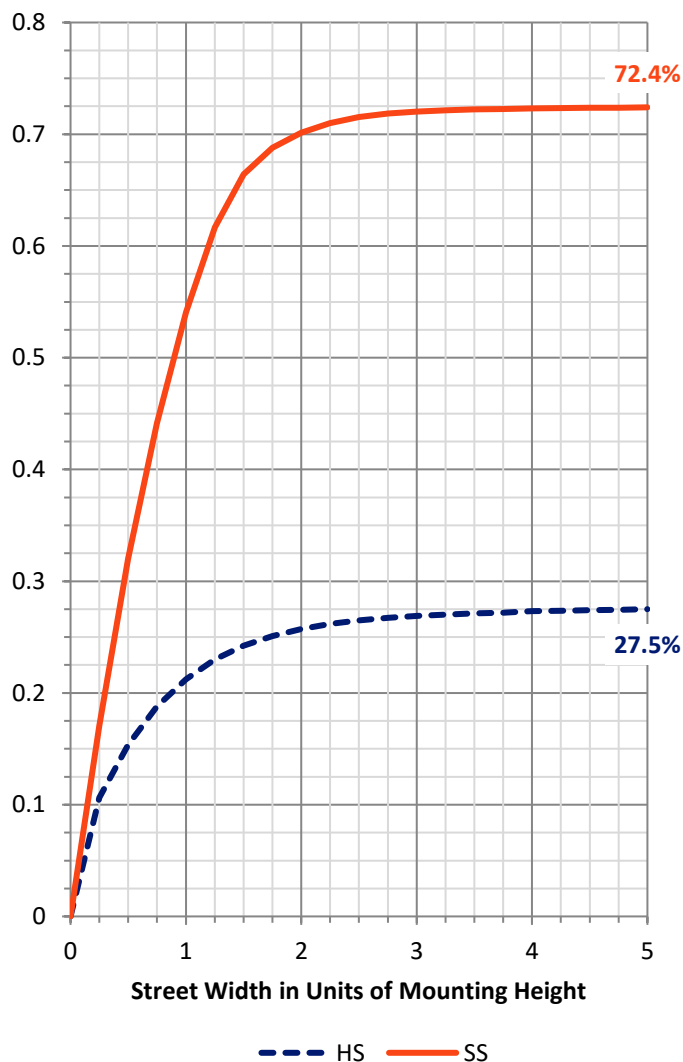
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16414.0	0.0	16414.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	42916.0	0.0	42916.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	59330.0	0.0	59330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1988.8	3.4
10°-20°	4604.7	7.8
20°-30°	6469.7	10.9
30°-40°	9044.7	15.2
40°-50°	12244.9	20.6
50°-60°	14914.8	25.1
60°-70°	7768.2	13.1
70°-80°	1990.5	3.4
80°-90°	303.6	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°	59330.0	100.0
0°-180°	59330.0	100.0

**Coefficient of Utilization**



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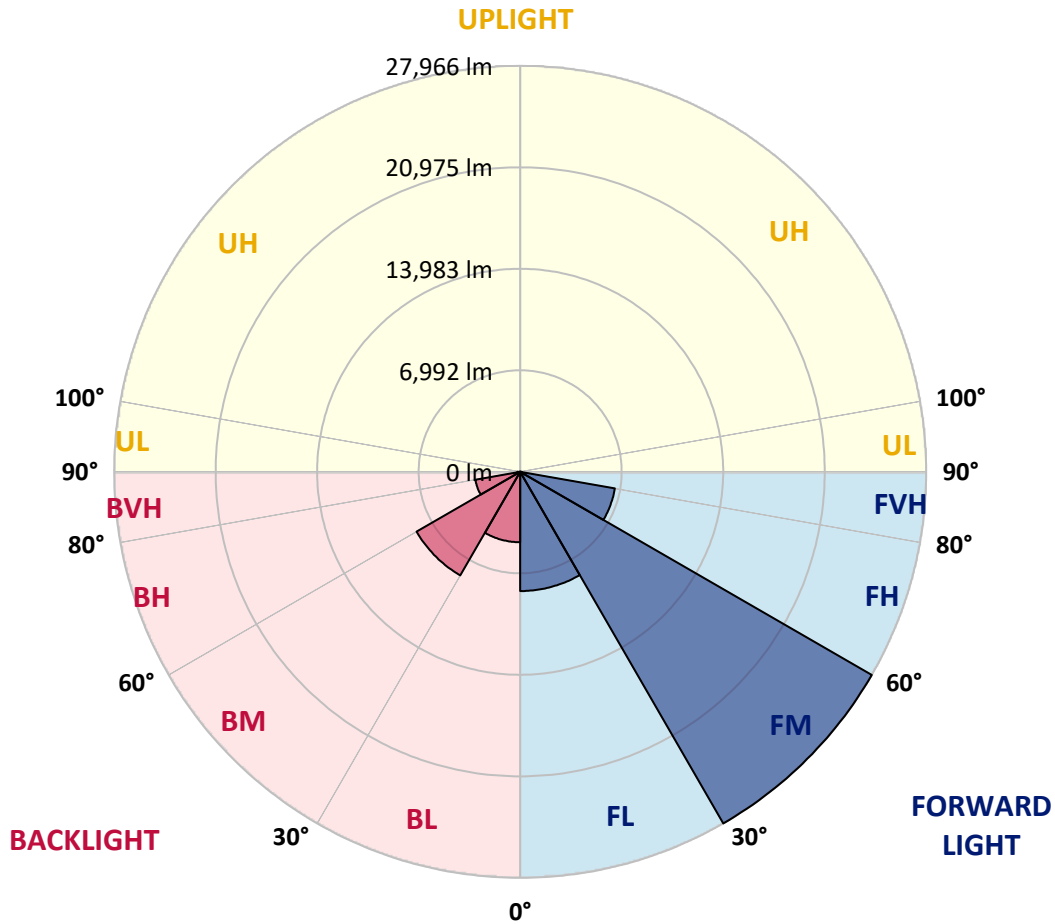
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8212.1	13.8			
FM (30°-60°)	27966.3	47.1			
FH (60°-80°)	6622.9	11.2			G3/7500
FVH (80°-90°)	114.7	0.2			G2/225
BL (0°-30°)	4851.2	8.2	B4/5000		
BM (30°-60°)	8238.0	13.9	B4/8500		
BH (60°-80°)	3135.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	188.9	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°	54°	55°	65°	75°	85°
0°	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9
2.5°	23716.7	23625.2	23640.5	23762.5	23610.0	23549.0	23549.0	23251.5	23274.4	23068.5	23015.1
5°	23167.7	22954.1	23099.0	23282.0	23312.5	23373.6	23472.7	23396.4	23182.9	22961.8	22603.3
7.5°	21734.0	21924.6	21978.0	22107.6	22382.2	22633.8	22946.5	22733.0	22725.3	22504.2	22290.7
10°	20475.7	20361.3	20651.1	20841.7	21299.3	21718.7	22199.2	22176.3	22290.7	22039.0	21673.0
12.5°	19225.0	19133.5	19270.8	19705.5	20346.1	20956.1	21528.1	21314.5	21924.6	21878.9	21093.4
15°	17898.1	17966.8	18165.0	18569.2	19408.1	20140.2	20864.6	20872.2	21413.7	21596.7	20544.3
17.5°	16967.8	16891.5	17143.1	17745.6	18492.9	19369.9	20193.5	20361.3	21192.5	21299.3	20376.6
20°	16273.8	16380.6	16708.5	17013.5	17875.2	18935.2	19865.6	19926.6	21146.8	21436.6	20109.6
22.5°	16106.0	16045.0	16151.8	16647.5	17356.7	18508.2	19690.2	19919.0	21139.2	21390.8	19606.3
25°	15930.6	16128.9	16121.3	16617.0	17135.5	18165.0	19835.1	20086.8	21543.3	21627.2	19675.0
27.5°	16327.2	16304.3	16517.8	16556.0	17196.5	18256.5	20140.2	20330.8	22214.4	22145.8	19728.3
30°	16723.7	16609.3	16739.0	17188.9	17486.3	18782.7	20979.0	20963.8	23083.8	23038.0	19896.1
32.5°	17211.8	17158.4	17242.3	17638.8	18142.1	19484.3	21688.2	22138.2	23968.4	24258.2	20475.7
35°	17303.3	17524.4	17722.7	18256.5	18973.4	20620.6	23022.8	23396.4	24990.3	25897.7	21581.5
37.5°	17882.9	17966.8	18431.9	19377.6	20033.4	22138.2	23869.2	24105.6	25920.6	26950.1	22748.2
40°	18500.6	18599.7	19301.3	20292.7	21192.5	23129.5	24662.3	24738.6	26218.0	27758.5	23510.8
42.5°	19339.4	19430.9	20124.9	21367.9	22572.8	23976.0	25363.9	25447.8	26195.2	28688.8	24723.3
45°	20208.8	20429.9	21245.9	22656.7	23739.6	24967.4	25524.1	25867.2	26408.7	29520.1	25707.1
47.5°	21428.9	21634.8	22305.9	23686.2	24952.1	25836.7	26263.8	26599.3	26919.6	30244.5	26340.1
50°	22725.3	22763.5	23579.5	24830.1	25760.5	26820.5	27644.1	27758.5	27590.7	31083.4	27415.3
52.5°	23678.6	23800.6	24433.6	25653.7	27041.6	28345.7	29474.3	29596.3	29268.4	31396.1	27781.4
55°	22100.0	22031.4	23060.9	24685.2	27903.4	30618.2	32257.8	32349.3	30488.6	32364.6	28978.6
57.5°	17082.1	17410.1	18287.0	20246.9	24792.0	31624.8	34408.3	34080.4	31952.8	32852.6	29741.2
60°	12415.1	12338.8	12926.0	14237.7	18683.6	27255.2	32532.3	32867.9	30755.5	29611.6	24525.1
62.5°	10112.0	10005.3	10051.0	10096.8	12056.6	18088.8	24082.8	24075.1	23686.2	21284.0	16540.7
65°	8083.5	8335.2	8358.0	8701.2	8952.9	10806.0	13955.5	14702.8	12804.0	10500.9	7618.3
67.5°	6093.1	6001.6	6306.7	7526.8	7999.6	7801.4	7618.3	7702.2	5475.4	3950.2	3721.5
70°	3591.8	3553.7	3919.7	5246.7	6588.8	6199.9	5742.3	5750.0	3759.6	2760.6	3073.3
72.5°	1967.5	1959.9	2036.1	2661.5	3744.3	3889.2	3446.9	3553.7	2242.0	2234.4	2402.2
75°	1098.1	1075.3	1052.4	1174.4	1349.8	1426.1	1456.6	1471.8	1540.4	1723.5	1792.1
77.5°	404.2	388.9	388.9	449.9	571.9	716.8	907.5	922.7	1090.5	1250.7	1319.3
80°	137.3	152.5	205.9	282.2	381.3	510.9	617.7	633.0	770.2	877.0	899.9
82.5°	83.9	91.5	137.3	198.3	274.5	358.4	457.6	465.2	571.9	640.6	671.1
85°	38.1	45.8	76.3	122.0	175.4	236.4	244.0	244.0	236.4	244.0	228.8
87.5°	0.0	0.0	15.3	15.3	15.3	22.9	30.5	22.9	38.1	45.8	45.8
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°	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9	23060.9
2.5°	22855.0	22771.1	22511.8	22283.0	22214.4	21909.4	21459.4	21512.8	21184.9	21337.4	21177.3
5°	22542.3	22260.2	21596.7	21314.5	20574.8	20239.3	20010.5	19438.6	19171.7	19118.3	18889.5
7.5°	21741.6	21566.2	20735.0	19972.4	19186.9	18515.8	17654.1	17066.9	16647.5	16533.1	16197.5
10°	21108.6	20719.7	19568.2	18409.1	17288.0	16121.3	15000.3	14123.3	13696.2	13200.5	13032.8
12.5°	20483.3	19896.1	18340.4	16853.4	15404.4	13932.6	12575.2	11507.6	10577.2	10356.0	10279.8
15°	20094.4	19072.5	17242.3	15450.2	13391.2	11469.4	10112.0	9410.4	8838.5	8602.1	8769.8
17.5°	19583.5	18393.8	16189.9	13803.0	11538.1	9768.8	8632.6	8197.9	7992.0	8014.9	7946.2
20°	18942.9	17753.2	14809.6	12308.3	9883.2	8472.4	7824.2	7664.1	7694.6	7748.0	7725.1
22.5°	18485.3	16975.4	13810.6	10783.1	8541.1	7755.6	7488.7	7374.3	7473.4	7519.2	7481.1
25°	18134.5	16311.9	12598.1	9433.3	7763.2	7351.4	7229.4	7221.8	7374.3	7435.3	7397.2
27.5°	17814.2	15694.2	11393.2	8403.8	7244.7	7038.8	7000.6	7092.1	7191.3	7252.3	7305.7
30°	17623.6	15221.4	10264.5	7542.1	6985.4	6886.2	6817.6	6901.5	6954.9	7015.9	6985.4
32.5°	17806.6	14885.9	9174.0	7054.0	6771.8	6672.7	6764.2	6710.8	6802.4	6855.7	6771.8
35°	18378.6	14588.5	8396.2	6794.7	6527.8	6565.9	6581.2	6558.3	6596.5	6550.7	6649.8
37.5°	18942.9	14481.7	7679.3	6573.6	6413.4	6413.4	6398.2	6352.4	6428.7	6413.4	6459.2
40°	19659.7	14550.3	7069.3	6337.2	6306.7	6291.4	6230.4	6222.8	6192.3	6199.9	6215.2
42.5°	20285.0	14702.8	6718.5	6184.7	6207.5	6238.0	6123.6	6032.1	6070.3	5994.0	5994.0
45°	20948.5	14840.1	6405.8	6077.9	6055.0	6047.4	5955.9	5902.5	5872.0	5879.6	5948.2
47.5°	21993.3	15038.4	6169.4	5933.0	5948.2	5833.9	5811.0	5742.3	5772.8	5818.6	5826.2
50°	22733.0	15457.8	5986.4	5765.2	5818.6	5742.3	5605.1	5574.6	5574.6	5650.8	5635.6
52.5°	23251.5	16045.0	5811.0	5582.2	5605.1	5544.1	5498.3	5429.7	5383.9	5490.7	5544.1
55°	24837.7	17021.1	5765.2	5429.7	5422.1	5361.0	5277.2	5208.5	5185.7	5200.9	5307.7
57.5°	24685.2	16716.1	5620.3	5162.8	5147.5	5063.6	4979.7	4956.9	4949.2	4964.5	4995.0
60°	20041.0	12346.4	5017.9	4857.7	4834.9	4819.6	4735.7	4644.2	4598.5	4644.2	4606.1
62.5°	13261.5	8266.5	4423.1	4491.7	4506.9	4468.8	4331.5	4240.0	4255.3	4308.7	4224.8
65°	6512.6	4857.7	4011.3	4194.3	4209.5	4102.8	3973.1	3866.4	3813.0	3858.7	3820.6
67.5°	3721.5	3713.8	3675.7	3866.4	3858.7	3752.0	3546.1	3454.6	3363.0	3378.3	3355.4
70°	3157.1	3218.2	3294.4	3408.8	3401.2	3279.2	3035.1	2966.5	2836.9	2821.6	2783.5
72.5°	2486.1	2592.8	2760.6	2844.5	2775.8	2623.3	2463.2	2348.8	2234.4	2165.8	2188.6
75°	1845.5	1998.0	2089.5	2142.9	2036.1	1952.2	1822.6	1685.3	1548.1	1487.1	1464.2
77.5°	1342.2	1387.9	1471.8	1509.9	1441.3	1357.4	1281.2	1143.9	1014.3	930.4	907.5
80°	938.0	968.5	1029.5	1029.5	1029.5	991.4	892.2	755.0	671.1	594.8	579.6
82.5°	655.8	686.3	747.3	716.8	709.2	663.5	602.5	495.7	404.2	350.8	335.5
85°	228.8	251.7	305.0	366.0	388.9	381.3	343.2	274.5	213.5	175.4	160.1
87.5°	53.4	53.4	61.0	53.4	53.4	61.0	53.4	53.4	53.4	38.1	30.5
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)