

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: P533354

Luminaire Tested: **GALN-SA8D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533354
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-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 49322 lumens
Efficiency: N/A
Efficacy: 100.0 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

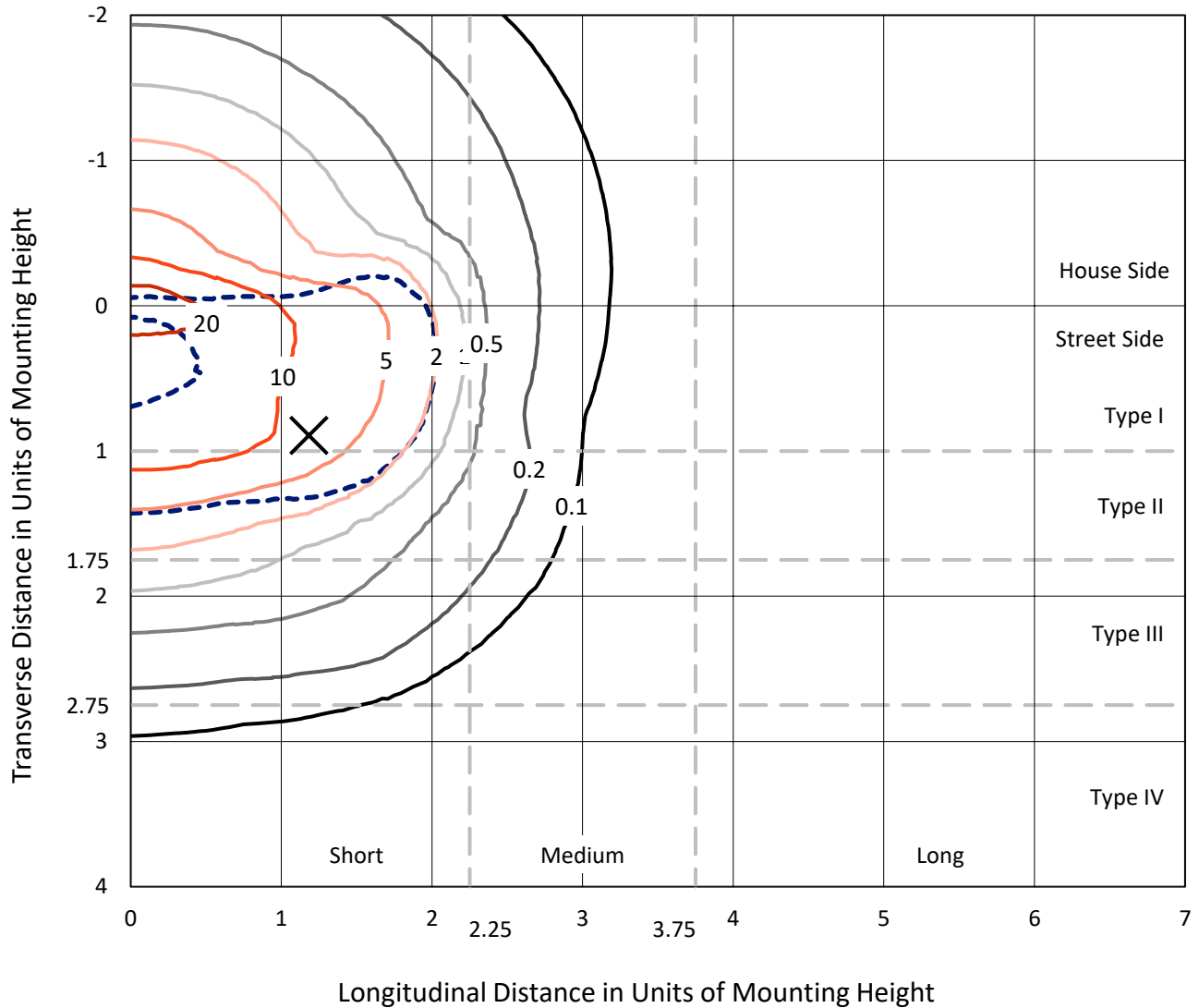
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

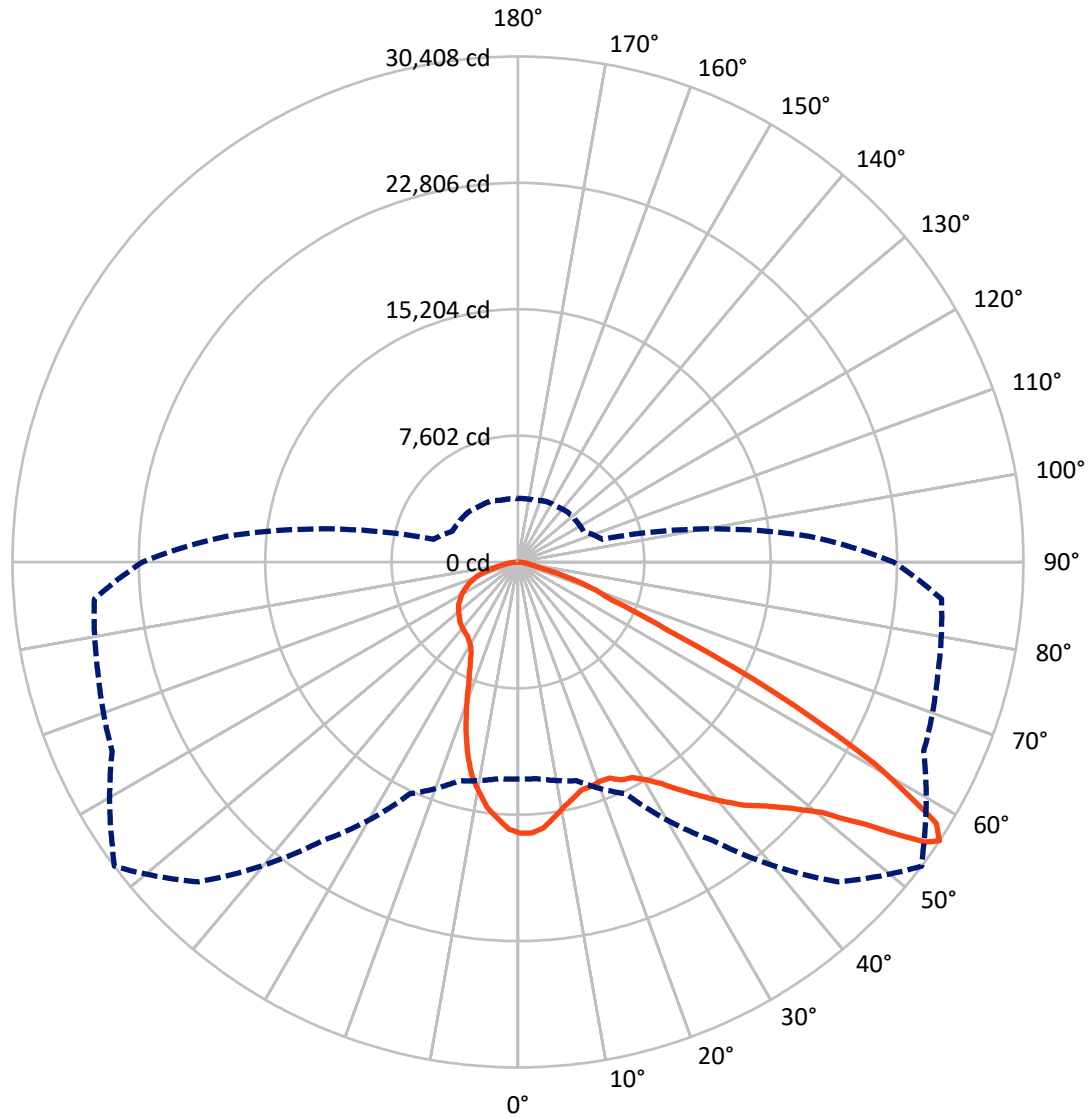
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 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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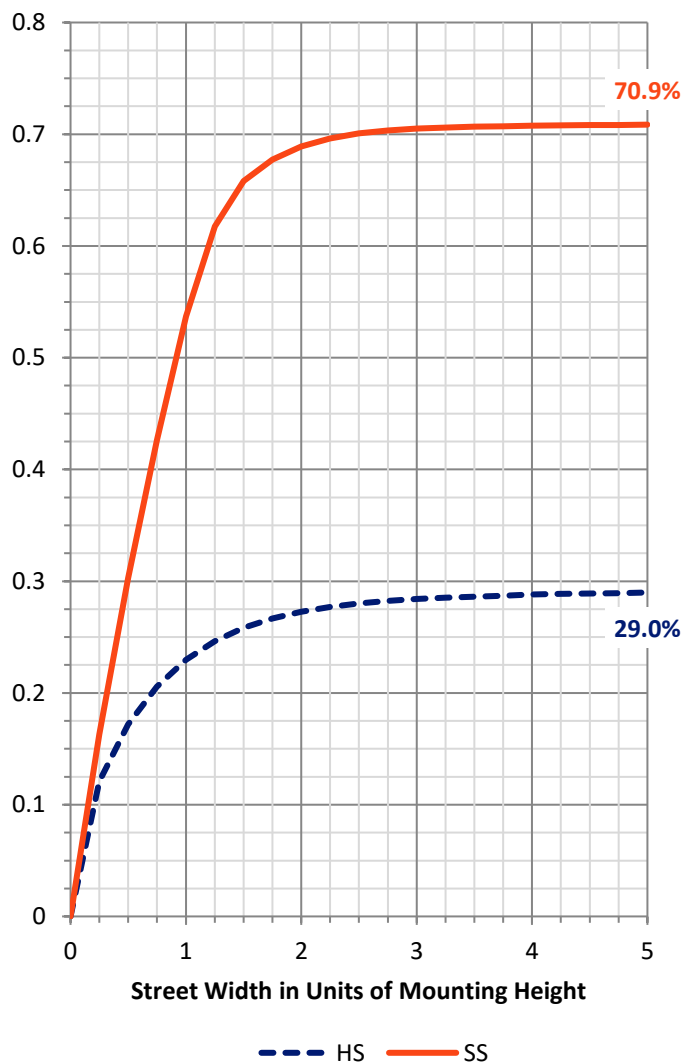
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14393.2	0.0	14393.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	34928.8	0.0	34928.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	49322.0	0.0	49322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1444.6	2.9
10°-20°	3607.9	7.3
20°-30°	5320.2	10.8
30°-40°	7601.5	15.4
40°-50°	10462.5	21.2
50°-60°	12363.9	25.1
60°-70°	6589.1	13.4
70°-80°	1671.6	3.4
80°-90°	260.7	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°	49322.0	100.0
0°-180°	49322.0	100.0

Coefficient of Utilization



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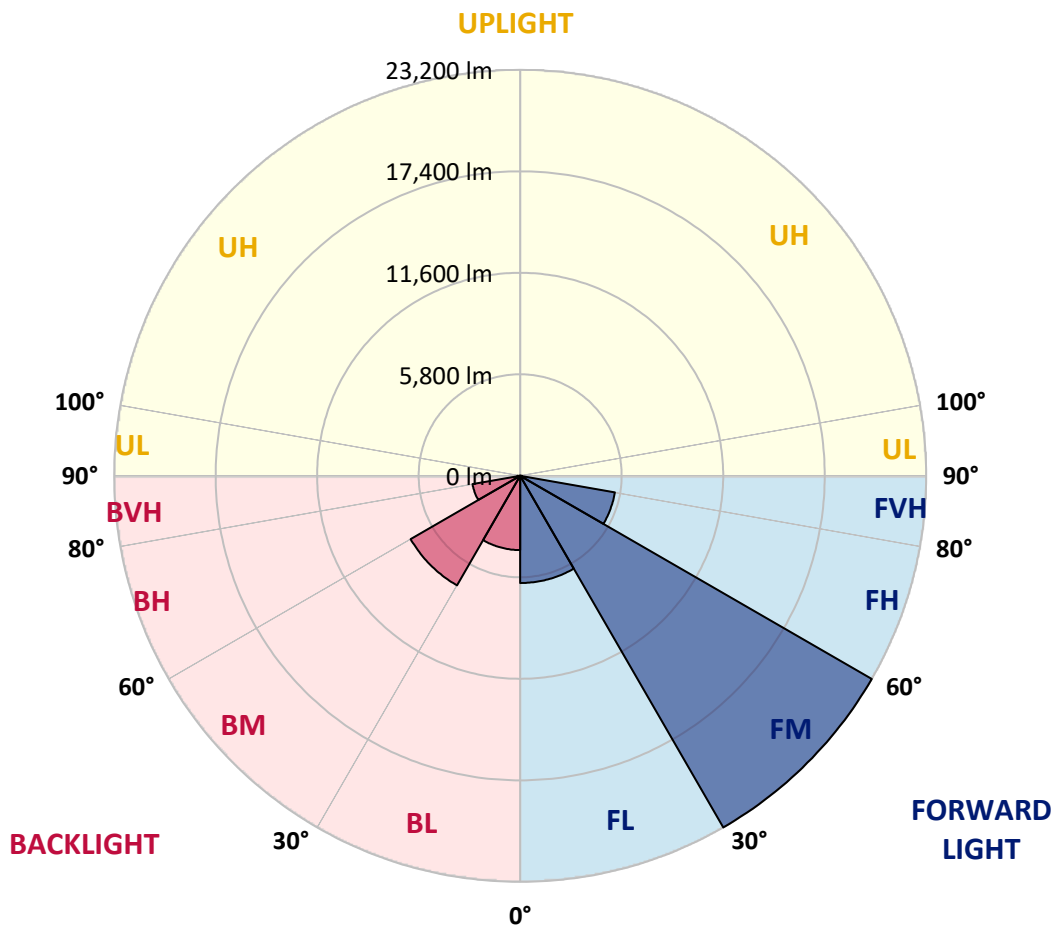
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6127.5	12.4			
FM (30°-60°)	23200.1	47.0			
FH (60°-80°)	5496.3	11.1			G3/7500
FVH (80°-90°)	104.8	0.2			G2/225
BL (0°-30°)	4245.1	8.6	B4/5000		
BM (30°-60°)	7227.8	14.7	B4/8500		
BH (60°-80°)	2764.4	5.6	B4/5000		G4/5000
BVH (80°-90°)	155.9	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°	53°	55°	65°	75°	85°
0°	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7
2.5°	16115.2	15976.0	16058.2	16026.6	16286.0	16362.0	16324.0	16355.6	16501.1	16431.5	16286.0
5°	15058.6	15254.7	15292.7	15387.6	15539.4	15836.8	16070.9	16134.2	16203.8	16526.5	16494.8
7.5°	14096.8	14229.7	14160.1	14438.5	14767.5	15248.4	15533.1	15583.7	16222.8	16399.9	16532.8
10°	13489.4	13356.6	13672.9	13748.8	14122.1	14672.6	15014.3	15223.1	15805.2	16507.5	16589.7
12.5°	12926.3	12882.0	13071.8	13287.0	13704.6	14274.0	14622.0	14704.2	15602.7	16343.0	16728.9
15°	12508.7	12458.1	12647.9	12806.1	13293.3	13799.5	14242.4	14476.5	15381.2	16248.1	16608.7
17.5°	12179.7	12173.4	12281.0	12565.7	13065.5	13489.4	14204.4	14217.1	15267.4	16393.6	16709.9
20°	12160.7	12154.4	12173.4	12489.7	12945.3	13464.1	14084.2	14198.1	15267.4	16292.4	16716.3
22.5°	12318.9	12217.7	12331.6	12534.0	12863.0	13508.4	14128.5	14381.6	15634.3	16792.2	17001.0
25°	12572.0	12597.3	12660.6	12730.2	12920.0	13609.7	14520.8	14729.6	16064.6	17222.4	17393.3
27.5°	13033.9	13021.2	13046.5	13084.5	13249.0	13704.6	14678.9	15216.7	16963.0	17988.0	17817.2
30°	13710.9	13666.6	13767.8	13900.7	13748.8	14008.3	15204.1	15609.0	17798.2	18759.9	18291.7
32.5°	14324.6	14489.1	14678.9	14735.9	14552.4	14603.0	15900.1	16311.3	18494.2	19709.0	18873.8
35°	15090.2	15223.1	15476.2	15653.3	15621.7	15469.8	16849.1	17393.3	19500.2	20405.0	19487.6
37.5°	15836.8	15995.0	16412.6	16937.7	16646.7	16577.1	17861.5	18310.7	19810.2	20778.3	19936.8
40°	17039.0	17032.6	17753.9	18026.0	18285.4	18165.2	18911.8	19063.6	19974.7	20696.0	19949.4
42.5°	18449.9	18361.3	19095.3	19519.2	19854.5	19867.2	20006.4	19955.8	20050.7	20278.4	19816.6
45°	19791.3	19981.1	20721.3	21480.6	21815.9	21853.9	20930.1	20835.2	20183.5	20158.2	19563.5
47.5°	21430.0	21474.3	22081.7	23081.4	23859.6	23593.9	22126.0	21917.2	20765.6	20961.8	19987.4
50°	21524.9	21853.9	22398.0	23574.9	25966.5	25896.9	23676.1	23283.8	21702.0	22100.7	21170.6
52.5°	19538.2	19462.2	20107.6	22031.1	25808.4	28187.4	26244.9	25308.5	23714.1	23410.4	23087.7
55°	14887.7	15064.9	15634.3	17576.8	22410.7	28219.0	29743.8	28978.2	25865.3	25346.5	24973.2
56°	13059.2	13084.5	13622.3	15393.9	20449.3	27213.0	30408.2	29788.1	26934.6	26143.7	25574.2
57.5°	10825.7	10680.2	10958.6	11926.6	17260.4	25087.1	29680.6	30288.0	28187.4	27004.2	26213.3
60°	8522.6	8491.0	8377.1	8554.3	10908.0	18899.1	24707.4	26074.1	28060.8	26194.3	25106.0
62.5°	6959.8	6801.7	7029.4	7282.5	7579.9	11724.2	17361.6	18165.2	22277.8	20911.2	18861.2
65°	5397.0	5321.1	5605.8	6428.4	6605.5	7447.0	9889.3	10509.4	13154.1	12920.0	11376.2
67.5°	3714.0	3726.7	3973.4	5226.2	6124.7	6048.7	6055.1	6377.7	6864.9	5099.7	4441.6
70°	2353.7	2347.4	2480.2	3366.0	4928.8	4979.4	4726.4	4631.5	4391.0	2657.4	2815.6
72.5°	1512.2	1467.9	1537.5	1860.2	2549.8	2948.4	3037.0	3094.0	2543.5	2088.0	2265.1
75°	854.2	809.9	784.6	866.8	1006.0	1164.2	1278.1	1316.0	1474.2	1581.8	1676.7
77.5°	259.4	234.1	284.7	379.6	499.8	670.7	816.2	841.5	993.4	1119.9	1214.8
80°	113.9	126.5	177.2	253.1	354.3	474.5	575.8	613.7	715.0	809.9	835.2
82.5°	69.6	75.9	120.2	170.8	246.8	335.3	411.3	423.9	525.2	601.1	620.1
85°	25.3	31.6	63.3	101.2	158.2	215.1	215.1	234.1	215.1	215.1	234.1
87.5°	0.0	0.0	6.3	12.7	12.7	19.0	25.3	25.3	31.6	38.0	44.3
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°	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7	16317.7
2.5°	16362.0	16330.3	16279.7	16096.2	16077.2	16020.3	15703.9	15653.3	15703.9	15552.1	15564.7
5°	16330.3	16425.2	16045.6	15862.1	15520.4	15273.7	14989.0	14843.4	14584.0	14419.5	14603.0
7.5°	16469.5	16431.5	15957.0	15558.4	15045.9	14419.5	13919.7	13635.0	13179.4	13052.9	13147.8
10°	16418.9	16216.4	15659.6	15134.5	14166.4	13616.0	12806.1	12021.5	11591.3	11369.8	11338.2
12.5°	16349.3	16292.4	15362.3	14457.5	13438.8	12281.0	11142.1	10401.8	9699.5	9395.8	9440.1
15°	16431.5	15950.7	14805.5	13660.3	12306.3	10787.8	9560.3	8604.9	8117.7	7921.6	7921.6
17.5°	16393.6	15786.2	14539.7	12768.1	11053.5	9256.6	7908.9	7333.1	7130.7	7130.7	7187.6
20°	16412.6	15893.7	14001.9	11876.0	9572.9	7795.0	6814.3	6605.5	6694.1	6725.7	6757.4
22.5°	16520.1	15539.4	13476.8	10895.3	8200.0	6668.8	6187.9	6194.3	6352.4	6523.3	6491.6
25°	16653.0	15400.2	12837.7	9920.9	7149.7	6118.3	5966.5	5947.5	6067.7	6156.3	6168.9
27.5°	16539.1	15159.8	12186.0	8706.1	6289.2	5751.4	5719.7	5732.4	5770.3	5947.5	5890.6
30°	16912.4	15229.4	11369.8	7687.5	5814.6	5631.1	5593.2	5574.2	5631.1	5681.8	5637.5
32.5°	17374.3	14982.6	10762.4	6706.8	5580.5	5542.6	5466.6	5441.3	5473.0	5422.3	5447.7
35°	17576.8	14938.3	9971.6	6004.4	5397.0	5365.4	5321.1	5314.8	5321.1	5276.8	5238.9
37.5°	17690.6	15147.1	9066.8	5681.8	5283.2	5314.8	5213.6	5200.9	5087.0	5112.3	5131.3
40°	17886.8	14824.5	8332.8	5371.7	5213.6	5150.3	5061.7	5042.7	4966.8	4922.5	4966.8
42.5°	17602.1	14729.6	7611.5	5238.9	5112.3	5042.7	4979.4	4871.9	4846.6	4808.6	4783.3
45°	17374.3	14185.4	6966.2	5074.4	4992.1	4954.1	4833.9	4720.0	4625.1	4663.1	4606.1
47.5°	17545.1	13995.6	6327.1	4935.2	4827.6	4783.3	4663.1	4574.5	4479.6	4435.3	4422.7
50°	18228.5	14349.9	5789.3	4833.9	4688.4	4663.1	4504.9	4403.7	4315.1	4283.5	4296.1
52.5°	19860.9	15318.0	5422.3	4625.1	4555.5	4441.6	4353.1	4226.5	4169.6	4068.3	4131.6
55°	21929.8	16893.4	5327.4	4429.0	4391.0	4289.8	4169.6	4074.7	3967.1	3884.9	3865.9
56°	22594.2	17646.4	5251.5	4353.1	4289.8	4232.8	4074.7	4017.7	3846.9	3827.9	3815.3
57.5°	23132.0	18310.7	5264.2	4207.5	4144.3	4093.7	3998.7	3859.5	3745.7	3676.1	3707.7
60°	21917.2	17140.2	5023.7	3986.1	3973.4	3878.5	3745.7	3682.4	3543.2	3460.9	3442.0
62.5°	16292.4	11635.6	4074.7	3701.4	3695.0	3593.8	3442.0	3372.4	3347.1	3233.2	3233.2
65°	9383.1	7295.2	3524.2	3467.3	3416.6	3315.4	3163.6	3106.6	3043.3	3005.4	2973.7
67.5°	4005.1	3783.6	3201.5	3195.2	3138.3	3011.7	2859.9	2771.3	2689.0	2613.1	2651.1
70°	2904.2	2948.4	2891.5	2859.9	2790.3	2632.1	2499.2	2391.7	2265.1	2214.5	2252.5
72.5°	2303.1	2398.0	2480.2	2486.6	2404.3	2220.8	2075.3	1929.8	1790.6	1721.0	1752.6
75°	1746.3	1809.6	1891.8	1910.8	1790.6	1664.0	1524.8	1373.0	1265.4	1183.2	1195.8
77.5°	1259.1	1246.4	1322.4	1309.7	1252.8	1164.2	1037.6	898.5	778.2	702.3	708.6
80°	860.5	879.5	923.8	917.4	847.8	790.9	696.0	582.1	493.5	430.2	417.6
82.5°	601.1	632.7	670.7	639.0	582.1	525.2	455.6	373.3	303.7	253.1	240.4
85°	215.1	246.8	284.7	303.7	322.7	310.0	259.4	208.8	151.9	126.5	120.2
87.5°	44.3	50.6	56.9	56.9	56.9	50.6	44.3	44.3	38.0	19.0	19.0
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)