

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: P533355

Luminaire Tested: **GALN-SA8D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34031 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

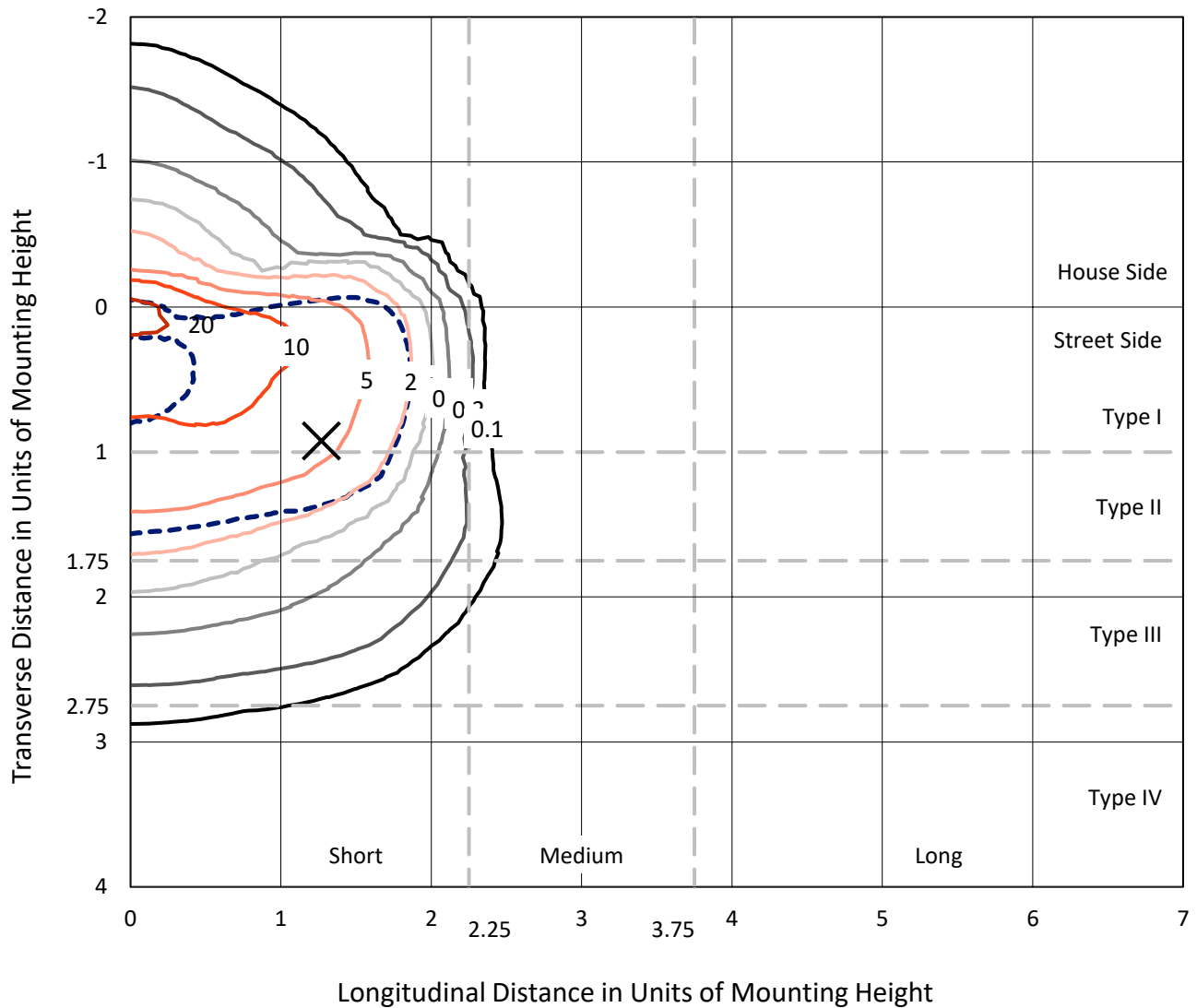
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

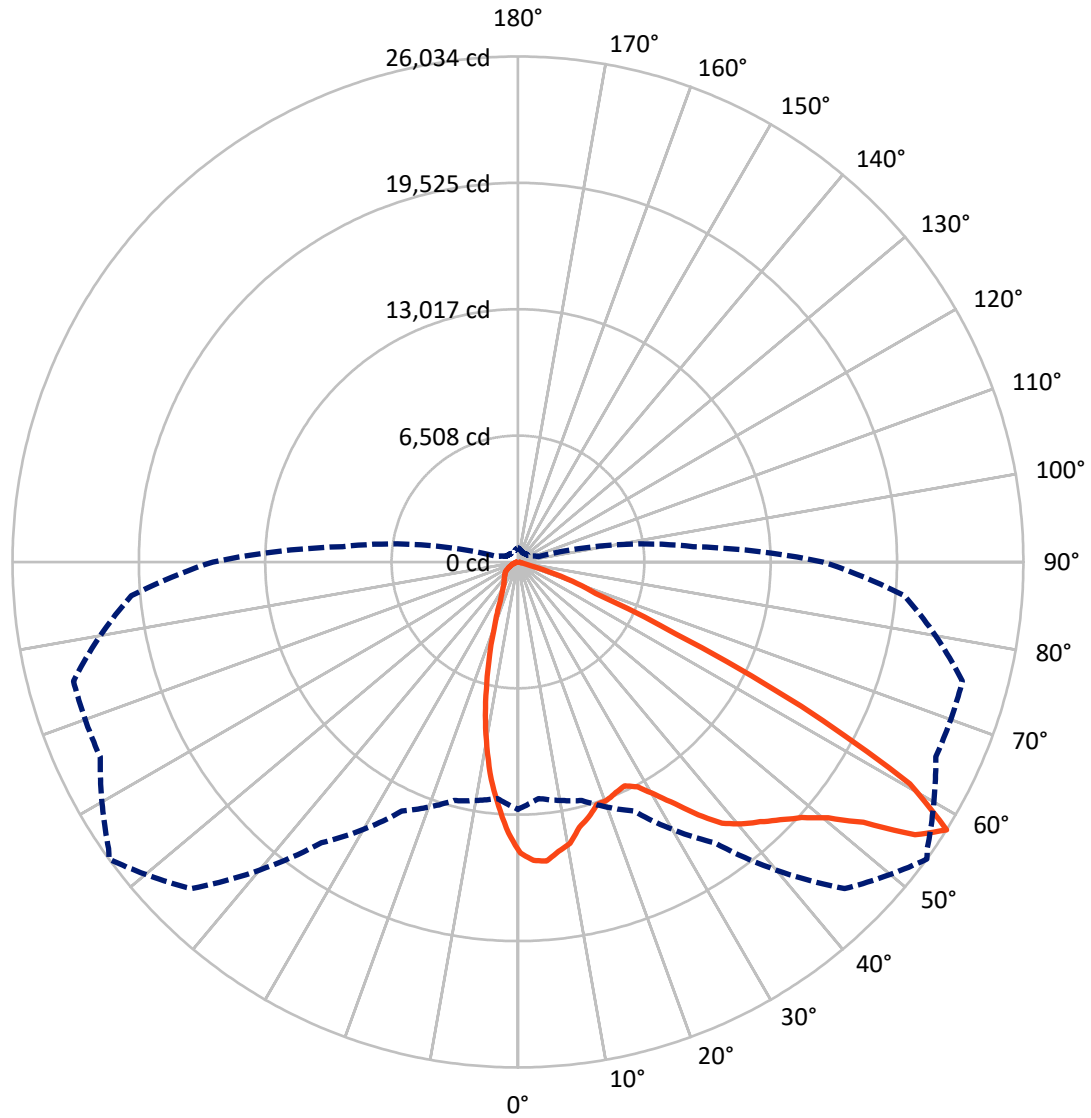
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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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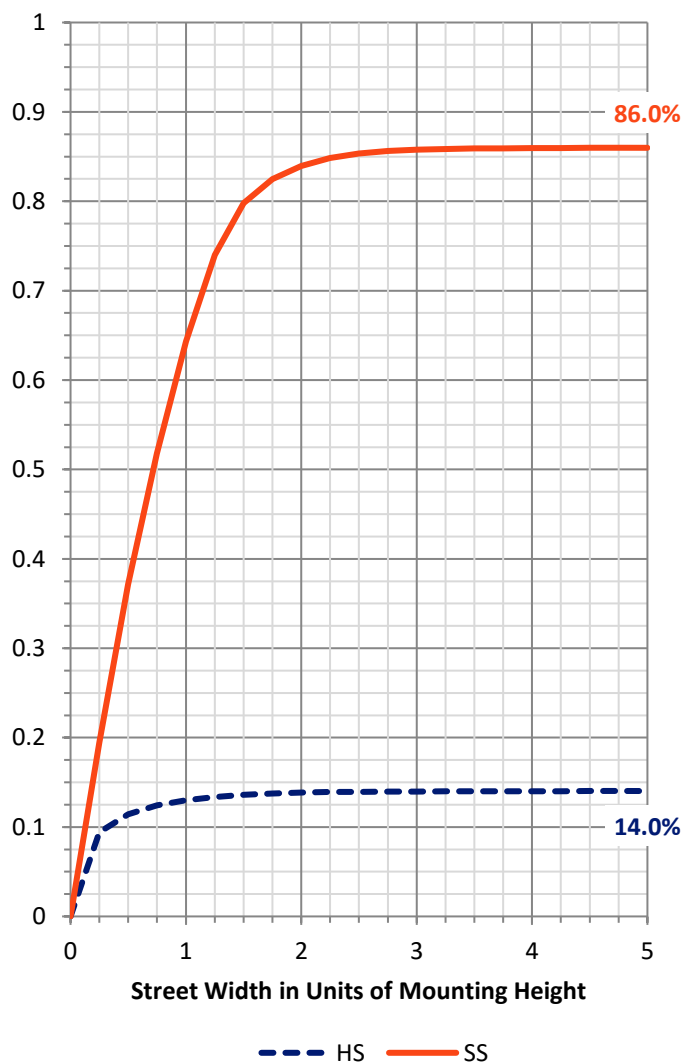
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4809.1	0.0	4809.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29221.8	0.0	29221.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	34031.0	0.0	34031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1254.5	3.7
10°-20°	2678.3	7.9
20°-30°	3549.3	10.4
30°-40°	5158.1	15.2
40°-50°	7648.8	22.5
50°-60°	9564.5	28.1
60°-70°	3772.7	11.1
70°-80°	375.6	1.1
80°-90°	29.2	0.1
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°	34031.0	100.0
0°-180°	34031.0	100.0

Coefficient of Utilization

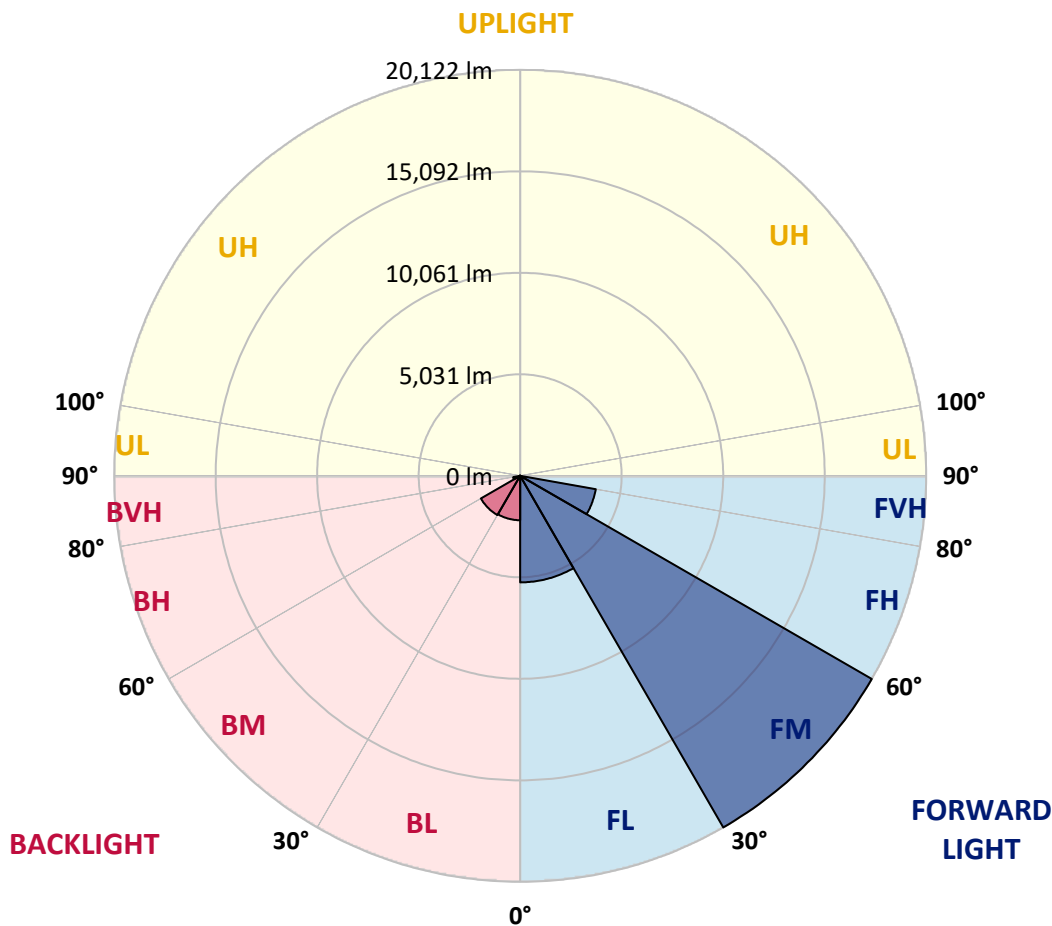


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5282.6	15.5			
FM (30°-60°)	20122.5	59.1			
FH (60°-80°)	3803.5	11.2			G2/5000
FVH (80°-90°)	13.3	0.0			G1/100
BL (0°-30°)	2199.5	6.5	B3/2500		
BM (30°-60°)	2248.9	6.6	B2/2500		
BH (60°-80°)	344.8	1.0	B1/500		G1/500
BVH (80°-90°)	15.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1
2.5°	15864.4	15699.9	15712.5	15655.6	15579.6	15636.6	15389.8	15446.7	15440.4	15105.0	14883.5
5°	15465.7	15642.9	15459.4	15611.3	15465.7	15623.9	15472.0	15358.1	15174.6	14927.8	14516.5
7.5°	14788.6	14617.8	14668.4	14858.2	14889.9	15244.2	15054.4	15199.9	15124.0	14636.7	14073.5
10°	13428.1	13390.1	13643.2	13896.4	14206.4	14586.1	14731.7	14649.4	14592.4	14408.9	13655.9
12.5°	12384.0	12491.5	12485.2	12902.9	13428.1	13643.2	14022.9	14010.3	14326.7	13985.0	13263.6
15°	11390.5	11447.4	11713.2	11972.6	12554.8	13168.6	13636.9	13700.2	14079.9	13839.4	12959.8
17.5°	10783.0	10700.7	10909.5	11219.6	11814.4	12618.1	13137.0	13288.9	13807.8	13757.1	12611.8
20°	10181.8	10181.8	10352.7	10719.7	11263.9	12168.8	13092.7	13048.4	13807.8	13662.2	12238.4
22.5°	9979.3	10080.6	10124.9	10403.3	11048.7	11827.1	12902.9	12985.1	13915.3	13617.9	12073.9
25°	10257.7	10124.9	10137.5	10359.0	10966.5	11662.6	12763.6	12947.2	14111.5	13839.4	11941.0
27.5°	10302.0	10434.9	10472.9	10624.8	11029.8	11713.2	13111.7	13485.0	14598.8	14358.3	11979.0
30°	10688.1	10820.9	10814.6	11074.1	11352.5	12124.5	13890.0	13966.0	15604.9	15010.1	12213.1
32.5°	11156.3	11295.5	11339.8	11643.6	11865.1	12877.6	14839.2	15035.4	16573.1	16035.2	12826.9
35°	11738.5	11687.9	11890.4	12194.1	12668.7	13978.6	15997.3	16326.3	17617.2	17364.1	13459.7
37.5°	12466.2	12402.9	12599.1	13092.7	13738.2	15282.2	17066.7	17281.9	18376.6	18598.1	14630.4
40°	12978.8	13004.1	13598.9	14263.4	14946.8	16522.5	17743.8	17952.6	18908.2	19749.8	15516.3
42.5°	13833.1	13991.3	14706.4	15516.3	16231.4	17452.7	18294.3	18496.8	19155.0	20673.7	16712.3
45°	15073.4	15003.8	15794.8	16699.7	17490.7	18420.9	18946.1	18876.5	19300.5	21591.3	17465.4
47.5°	16668.0	16680.7	17205.9	17977.9	18800.6	19262.5	19673.9	19427.1	19604.3	22559.4	18471.5
50°	17756.5	17851.4	18275.4	19066.4	19477.7	20186.4	20711.7	20559.8	20502.8	23141.6	19104.3
52.5°	18034.9	18319.7	18547.5	19534.6	20496.5	21616.6	22287.3	22610.1	21597.6	23337.8	19908.0
55°	15934.0	16187.1	16990.8	18345.0	20882.5	23882.0	24805.9	24812.2	23027.7	24211.1	20471.2
57.5°	12738.3	12225.8	12719.3	14155.8	17655.2	23787.1	26033.5	25736.1	23742.8	23698.5	19983.9
60°	8808.6	8682.1	8713.7	9283.2	12219.4	18920.8	23198.6	23584.6	21863.4	20540.8	15820.1
62.5°	6979.8	6872.2	6733.0	6669.7	7587.3	11789.1	16364.3	16908.5	15288.5	13320.5	9378.1
65°	5467.4	5404.1	5423.1	5676.2	5669.9	6688.7	8947.8	8726.4	6986.2	5163.7	2948.9
67.5°	3689.2	3784.2	3860.1	4625.8	5018.1	4657.4	4322.0	4195.5	2271.8	955.5	651.8
70°	2075.6	2088.3	2170.5	2891.9	3809.5	3613.3	2980.5	2980.5	1132.7	348.0	373.4
72.5°	1132.7	1094.7	1018.8	1246.6	1695.9	1721.2	1328.9	1158.0	335.4	227.8	208.8
75°	550.5	544.2	468.3	386.0	367.0	303.7	234.1	215.2	151.9	145.5	126.6
77.5°	113.9	107.6	57.0	57.0	63.3	69.6	88.6	88.6	107.6	107.6	88.6
80°	0.0	0.0	6.3	25.3	44.3	63.3	75.9	75.9	88.6	88.6	69.6
82.5°	0.0	0.0	6.3	19.0	38.0	57.0	69.6	75.9	88.6	94.9	75.9
85°	0.0	0.0	0.0	12.7	31.6	44.3	38.0	38.0	31.6	25.3	12.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1	14991.1
2.5°	14769.6	14757.0	14465.9	14301.4	14003.9	13744.5	13535.7	13383.8	13383.8	13288.9	13200.3
5°	14352.0	14244.4	13624.3	13225.6	12662.4	12244.7	11960.0	11738.5	11390.5	11485.4	11112.0
7.5°	13833.1	13561.0	12738.3	12130.8	11352.5	10757.7	10150.2	9612.3	9093.4	8859.2	8985.8
10°	13276.2	12801.6	11694.2	10732.3	9764.2	8675.7	7967.0	7106.4	6574.8	6543.2	6404.0
12.5°	12687.7	12149.8	10802.0	9473.1	8201.1	6891.2	5809.1	5005.5	4644.8	4246.1	4322.0
15°	12244.7	11447.4	9808.5	8207.5	6517.9	5195.3	4106.9	3486.7	3145.0	3050.1	3018.5
17.5°	11763.8	10909.5	8796.0	6859.6	5113.1	3739.9	2955.2	2657.8	2524.9	2524.9	2505.9
20°	11263.9	10302.0	7789.8	5606.6	3834.8	2790.7	2366.7	2271.8	2265.4	2259.1	2259.1
22.5°	10934.8	9606.0	6878.6	4454.9	2891.9	2233.8	2056.6	2018.6	2044.0	2119.9	2119.9
25°	10586.8	8935.2	5872.4	3436.1	2240.1	1917.4	1816.1	1841.5	1904.7	1974.3	1949.0
27.5°	10232.4	8498.6	4923.2	2695.7	1835.1	1676.9	1639.0	1695.9	1765.5	1828.8	1809.8
30°	10150.2	8030.3	4024.6	2044.0	1575.7	1461.8	1487.1	1537.7	1607.3	1632.6	1657.9
32.5°	10276.7	7663.2	3296.9	1676.9	1373.2	1341.5	1341.5	1366.9	1411.2	1468.1	1449.1
35°	10637.4	7454.4	2607.2	1455.4	1259.3	1227.6	1221.3	1246.6	1271.9	1290.9	1271.9
37.5°	11188.0	7289.9	2132.5	1290.9	1183.3	1132.7	1120.1	1113.7	1139.0	1145.4	1158.0
40°	11890.4	7378.5	1809.8	1189.7	1107.4	1050.5	1012.5	1012.5	1012.5	1031.5	1037.8
42.5°	12649.7	7498.7	1563.0	1132.7	1037.8	968.2	930.2	917.6	930.2	955.5	949.2
45°	13447.1	7732.9	1404.8	1044.1	974.5	885.9	835.3	822.6	854.3	904.9	898.6
47.5°	14193.8	8068.2	1284.6	987.2	911.2	829.0	765.7	753.0	810.0	879.6	885.9
50°	14940.5	8650.4	1240.3	942.9	866.9	772.0	715.1	702.4	765.7	854.3	873.3
52.5°	15801.1	9276.9	1208.7	885.9	816.3	727.7	664.4	651.8	721.4	835.3	841.6
55°	16364.3	9808.5	1183.3	784.7	721.4	658.1	607.5	601.2	677.1	778.3	803.7
57.5°	15706.2	9068.1	1094.7	683.4	613.8	582.2	537.9	537.9	601.2	696.1	715.1
60°	11909.4	5967.3	778.3	550.5	518.9	499.9	480.9	480.9	531.6	601.2	607.5
62.5°	6973.5	3214.6	499.9	443.0	443.0	424.0	392.3	392.3	443.0	480.9	487.3
65°	2069.3	1031.5	405.0	379.7	373.4	341.7	310.1	303.7	341.7	360.7	354.4
67.5°	594.8	474.6	335.4	316.4	310.1	259.4	240.5	234.1	240.5	227.8	221.5
70°	354.4	322.7	259.4	265.8	234.1	189.8	170.9	164.5	151.9	132.9	120.2
72.5°	196.2	196.2	189.8	202.5	164.5	126.6	107.6	88.6	69.6	57.0	50.6
75°	120.2	126.6	132.9	139.2	107.6	82.3	69.6	44.3	25.3	12.7	12.7
77.5°	82.3	88.6	94.9	101.2	88.6	75.9	57.0	31.6	6.3	0.0	0.0
80°	63.3	69.6	82.3	88.6	94.9	101.2	75.9	31.6	6.3	0.0	0.0
82.5°	69.6	75.9	94.9	88.6	88.6	88.6	69.6	31.6	6.3	0.0	0.0
85°	12.7	19.0	31.6	31.6	44.3	57.0	44.3	12.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)