

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: P530259

Luminaire Tested: **GALN-SA5C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17186 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

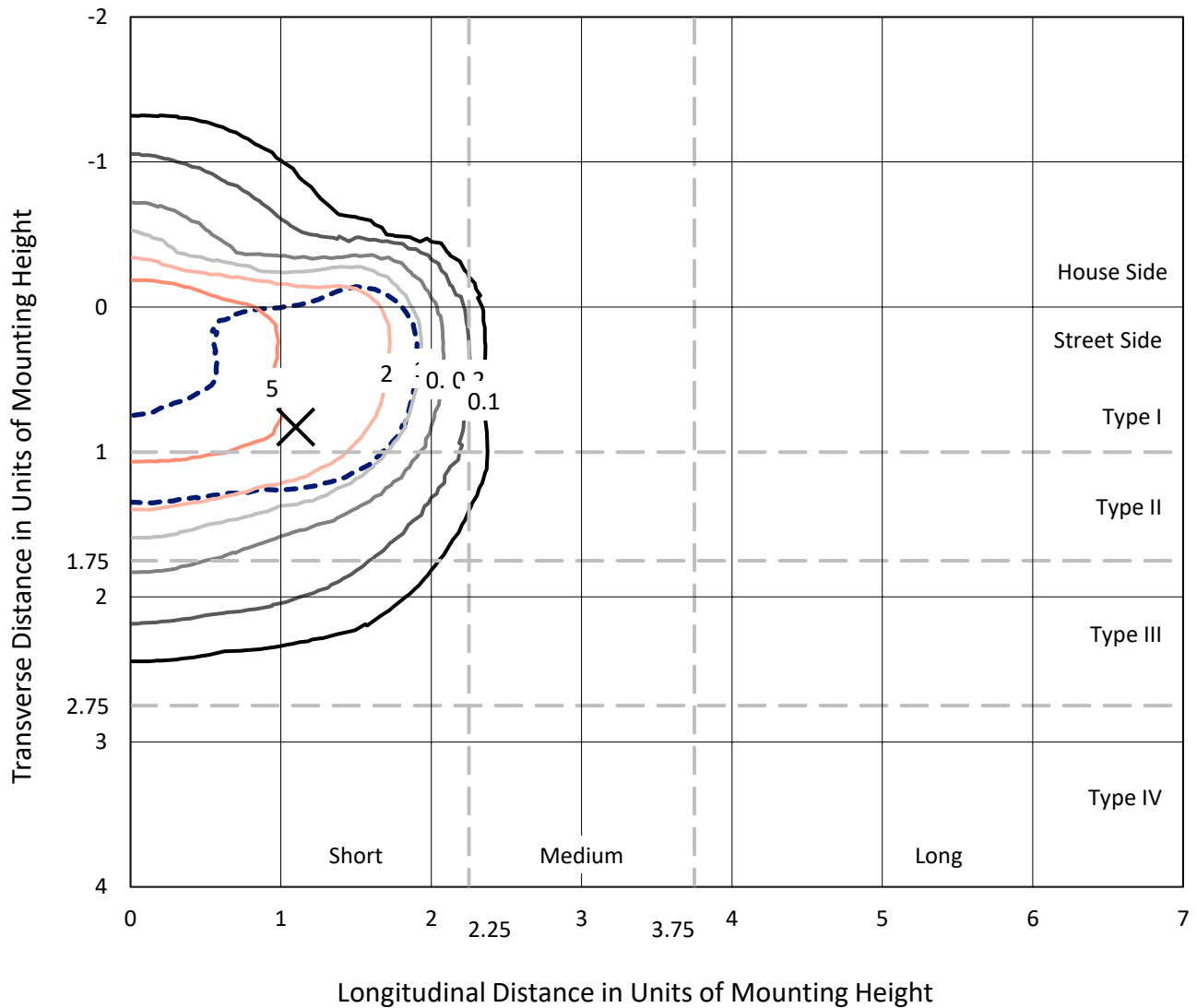
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

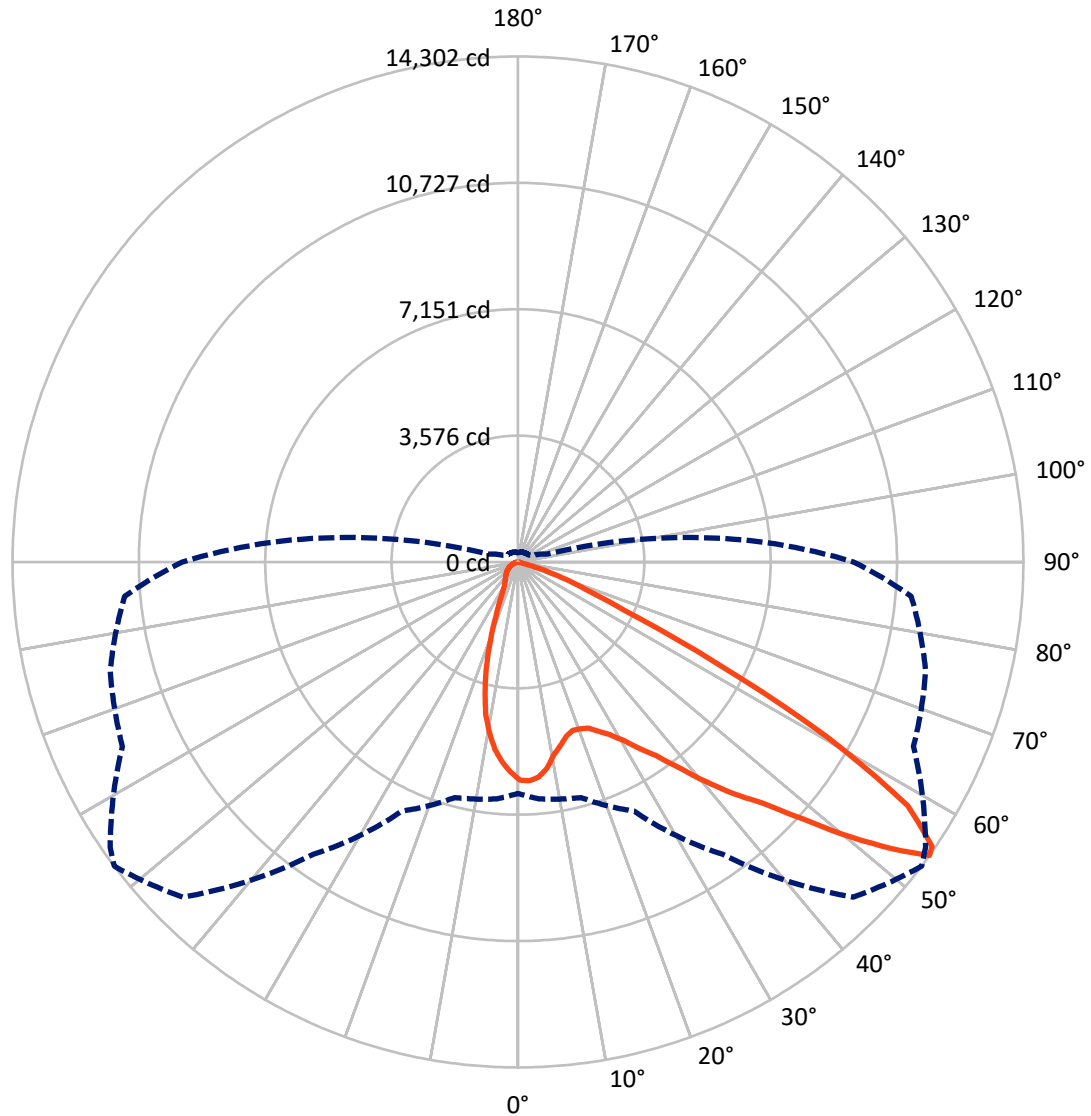
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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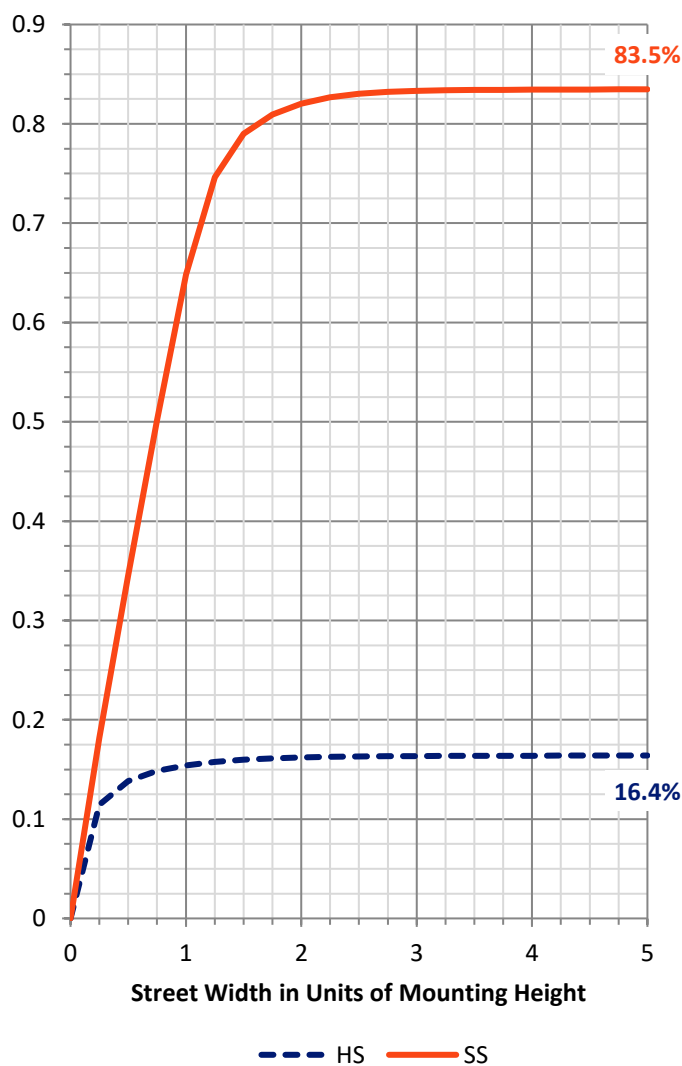
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.5	0.0	2843.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14342.5	0.0	14342.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	17186.0	0.0	17186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	3.1
10°-20°	1214.3	7.1
20°-30°	1725.7	10.0
30°-40°	2663.2	15.5
40°-50°	4175.7	24.3
50°-60°	4850.7	28.2
60°-70°	1832.9	10.7
70°-80°	174.3	1.0
80°-90°	19.6	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°	17186.0	100.0
0°-180°	17186.0	100.0

Coefficient of Utilization



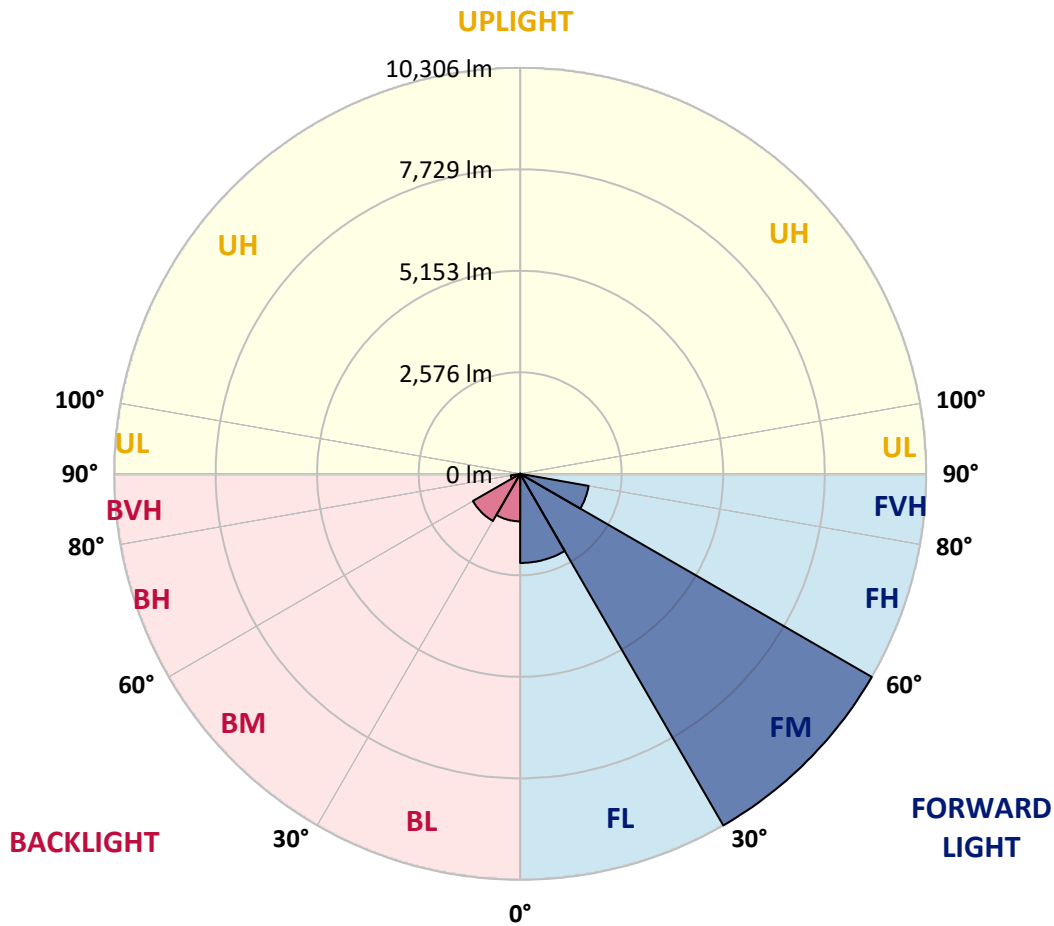
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.9	13.2			
FM (30°-60°)	10305.9	60.0			
FH (60°-80°)	1763.5	10.3			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	1206.6	7.0	B3/2500		
BM (30°-60°)	1383.7	8.1	B2/2500		
BH (60°-80°)	243.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9
2.5°	6140.9	6086.5	6140.9	6147.3	6185.7	6220.9	6198.5	6249.8	6220.9	6188.9	6179.3
5°	5644.6	5718.3	5721.5	5836.7	5811.1	6022.4	6115.3	6089.7	6246.6	6237.0	6214.5
7.5°	5199.6	5170.8	5209.2	5343.7	5513.4	5756.7	5891.2	5888.0	6112.1	6272.2	6256.2
10°	4786.6	4783.4	4863.4	4969.1	5113.2	5369.3	5555.0	5647.8	5996.8	6240.2	6275.4
12.5°	4508.0	4495.2	4581.7	4668.1	4895.4	5093.9	5330.9	5375.7	5775.9	6128.1	6185.7
15°	4325.5	4354.3	4360.7	4527.2	4671.3	4933.9	5119.6	5212.4	5673.5	6038.4	6259.4
17.5°	4293.5	4331.9	4335.1	4472.8	4626.5	4847.4	5010.7	5135.6	5587.0	6083.3	6262.6
20°	4357.5	4335.1	4354.3	4440.8	4591.3	4802.6	5039.5	5081.1	5558.2	6105.7	6297.8
22.5°	4540.0	4533.6	4485.6	4556.1	4661.7	4882.6	5106.7	5170.8	5641.4	6220.9	6326.6
25°	4741.8	4777.0	4732.1	4722.5	4796.2	5013.9	5311.7	5394.9	5920.0	6429.1	6416.3
27.5°	5119.6	5084.3	5084.3	5039.5	5020.3	5126.0	5532.6	5670.3	6230.6	6698.0	6518.7
30°	5481.3	5519.8	5491.0	5507.0	5378.9	5369.3	5846.3	6016.0	6781.2	7107.8	6736.4
32.5°	6054.5	6003.2	6051.3	6009.6	5839.9	5667.0	6272.2	6448.3	7447.2	7578.5	7063.0
35°	6531.5	6509.1	6714.0	6707.6	6432.3	6262.6	6723.6	6986.2	7911.5	8142.0	7447.2
37.5°	7210.3	7168.7	7402.4	7514.4	7267.9	7015.0	7370.4	7674.5	8343.7	8593.4	7841.0
40°	7908.3	8013.9	8327.7	8513.4	8250.8	7914.7	8161.2	8254.0	8631.8	8888.0	8110.0
42.5°	8791.9	8945.6	9265.8	9425.9	9403.5	9038.5	8964.8	8961.6	8840.0	8804.7	8308.5
45°	9640.4	9582.8	10075.8	10424.8	10706.6	10600.9	9739.6	9643.6	9169.7	8929.6	8359.7
47.5°	10011.8	9992.6	10328.8	10949.9	11910.4	12041.7	10866.6	10495.2	9726.8	9454.7	8638.2
50°	9531.5	9630.8	9963.8	10652.1	12124.9	13127.1	12249.8	11750.3	10376.8	10095.0	9297.8
52.5°	7962.7	8029.9	8346.9	9221.0	11394.9	13767.4	13575.3	13287.1	11571.0	11103.6	10447.2
54°	6547.5	6726.8	6899.7	7777.0	10095.0	13412.0	14302.1	14081.2	12349.0	11942.4	11170.8
55°	5702.3	5807.9	5932.8	6806.9	9195.3	12810.1	14218.9	14238.1	12870.9	12205.0	11657.5
57.5°	4165.4	4239.1	4111.0	4498.4	6313.8	10402.4	13005.4	13524.1	13575.3	12598.8	11955.2
60°	3182.5	3214.5	3070.5	3131.3	3925.3	7139.8	10059.8	10684.1	12246.6	11010.7	10127.0
62.5°	2468.5	2474.9	2471.7	2577.4	2705.5	4200.7	6291.4	6845.3	8442.9	7818.6	6877.3
65°	1818.6	1789.8	1841.0	2161.2	2308.4	2641.4	3313.8	3717.2	4588.1	3874.1	2769.5
67.5°	1178.2	1187.8	1239.1	1607.3	1978.7	2026.7	2039.5	2007.5	2010.7	1107.8	694.8
70°	707.6	723.6	707.6	909.3	1415.2	1453.6	1328.7	1296.7	1011.7	262.5	259.3
72.5°	419.4	397.0	355.4	390.6	589.1	704.4	633.9	630.7	397.0	153.7	153.7
75°	176.1	160.1	131.3	118.5	156.9	150.5	150.5	134.5	105.7	102.5	96.1
77.5°	35.2	35.2	25.6	28.8	38.4	44.8	54.4	54.4	64.0	64.0	60.8
80°	0.0	3.2	9.6	19.2	28.8	41.6	48.0	48.0	54.4	54.4	44.8
82.5°	0.0	3.2	9.6	19.2	25.6	38.4	48.0	48.0	54.4	57.6	48.0
85°	0.0	3.2	9.6	16.0	25.6	32.0	32.0	28.8	22.4	19.2	12.8
87.5°	0.0	0.0	3.2	6.4	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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°	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9	6172.9
2.5°	6201.7	6198.5	6121.7	5996.8	5968.0	5862.4	5849.5	5785.5	5820.7	5702.3	5689.5
5°	6150.5	6112.1	6019.2	5939.2	5705.5	5539.0	5407.7	5247.6	5154.8	5170.8	5109.9
7.5°	6224.1	6124.9	5961.6	5683.1	5398.1	5106.7	4949.9	4623.3	4504.8	4328.7	4303.1
10°	6147.3	6073.7	5820.7	5359.7	4965.9	4546.4	4178.2	3816.5	3541.1	3422.6	3397.0
12.5°	6140.9	6012.8	5590.2	5077.9	4508.0	3906.1	3371.4	2920.0	2647.8	2494.1	2458.9
15°	6041.7	5888.0	5330.9	4642.5	3854.9	3105.7	2523.0	2087.5	1879.4	1789.8	1815.4
17.5°	6051.3	5820.7	5071.5	4181.4	3211.3	2279.6	1722.5	1498.4	1444.0	1466.4	1466.4
20°	6041.7	5670.3	4757.8	3650.0	2458.9	1581.7	1264.7	1184.6	1219.9	1290.3	1274.3
22.5°	5990.4	5599.8	4469.6	3089.7	1809.0	1171.8	1014.9	1018.1	1072.6	1159.0	1178.2
25°	6028.8	5442.9	4104.6	2523.0	1319.1	934.9	880.5	902.9	960.5	1024.6	1037.4
27.5°	6000.0	5330.9	3723.6	1959.5	963.7	803.6	800.4	826.0	851.7	899.7	899.7
30°	6032.0	5228.4	3349.0	1456.8	794.0	736.4	723.6	742.8	768.4	778.0	774.8
32.5°	6150.5	5151.6	2916.8	1088.6	701.2	672.4	672.4	672.4	669.2	682.0	685.2
35°	6409.8	5164.4	2535.8	842.1	640.3	617.9	608.3	595.5	589.1	595.5	598.7
37.5°	6691.6	5158.0	2142.0	717.2	595.5	576.3	553.9	534.7	531.5	537.9	528.3
40°	6816.5	5218.8	1777.0	643.5	553.9	531.5	496.3	480.3	483.5	489.9	483.5
42.5°	6986.2	5238.0	1540.0	585.9	515.5	480.3	457.8	438.6	435.4	445.0	441.8
45°	6983.0	5129.2	1290.3	553.9	480.3	441.8	413.0	397.0	397.0	403.4	406.6
47.5°	7187.9	5113.2	1107.8	525.1	454.6	416.2	381.0	368.2	365.0	365.0	358.6
50°	7664.9	5337.3	966.9	493.1	422.6	387.4	358.6	342.6	329.8	323.4	320.2
52.5°	8596.6	6035.2	858.1	454.6	387.4	358.6	333.0	320.2	304.2	288.2	285.0
54°	9499.5	6755.6	851.7	422.6	358.6	339.4	317.0	310.6	291.4	268.9	262.5
55°	9906.1	7175.1	874.1	397.0	339.4	326.6	307.4	301.0	281.8	256.1	252.9
57.5°	10242.3	7338.3	861.3	329.8	307.4	304.2	288.2	278.5	256.1	220.9	214.5
60°	8244.4	5548.6	617.9	291.4	281.8	275.3	262.5	256.1	227.3	188.9	185.7
62.5°	5209.2	3192.1	393.8	256.1	246.5	236.9	220.9	214.5	188.9	150.5	140.9
65°	2218.8	1322.3	265.7	227.3	211.3	195.3	182.5	172.9	150.5	112.1	108.9
67.5°	576.3	470.7	220.9	198.5	176.1	153.7	144.1	128.1	102.5	76.8	73.6
70°	259.3	236.9	185.7	166.5	140.9	118.5	105.7	89.6	67.2	51.2	48.0
72.5°	153.7	150.5	140.9	124.9	105.7	89.6	76.8	60.8	44.8	28.8	28.8
75°	96.1	92.8	96.1	86.4	73.6	67.2	57.6	41.6	25.6	12.8	12.8
77.5°	57.6	57.6	57.6	54.4	51.2	51.2	41.6	25.6	12.8	3.2	3.2
80°	44.8	44.8	48.0	44.8	44.8	44.8	35.2	19.2	6.4	0.0	0.0
82.5°	44.8	48.0	54.4	51.2	44.8	38.4	32.0	19.2	6.4	0.0	0.0
85°	12.8	9.6	16.0	22.4	32.0	28.8	22.4	16.0	6.4	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2	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)