

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: P529401

Luminaire Tested: **GALN-SA4C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529401
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-SA4C-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 16233 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

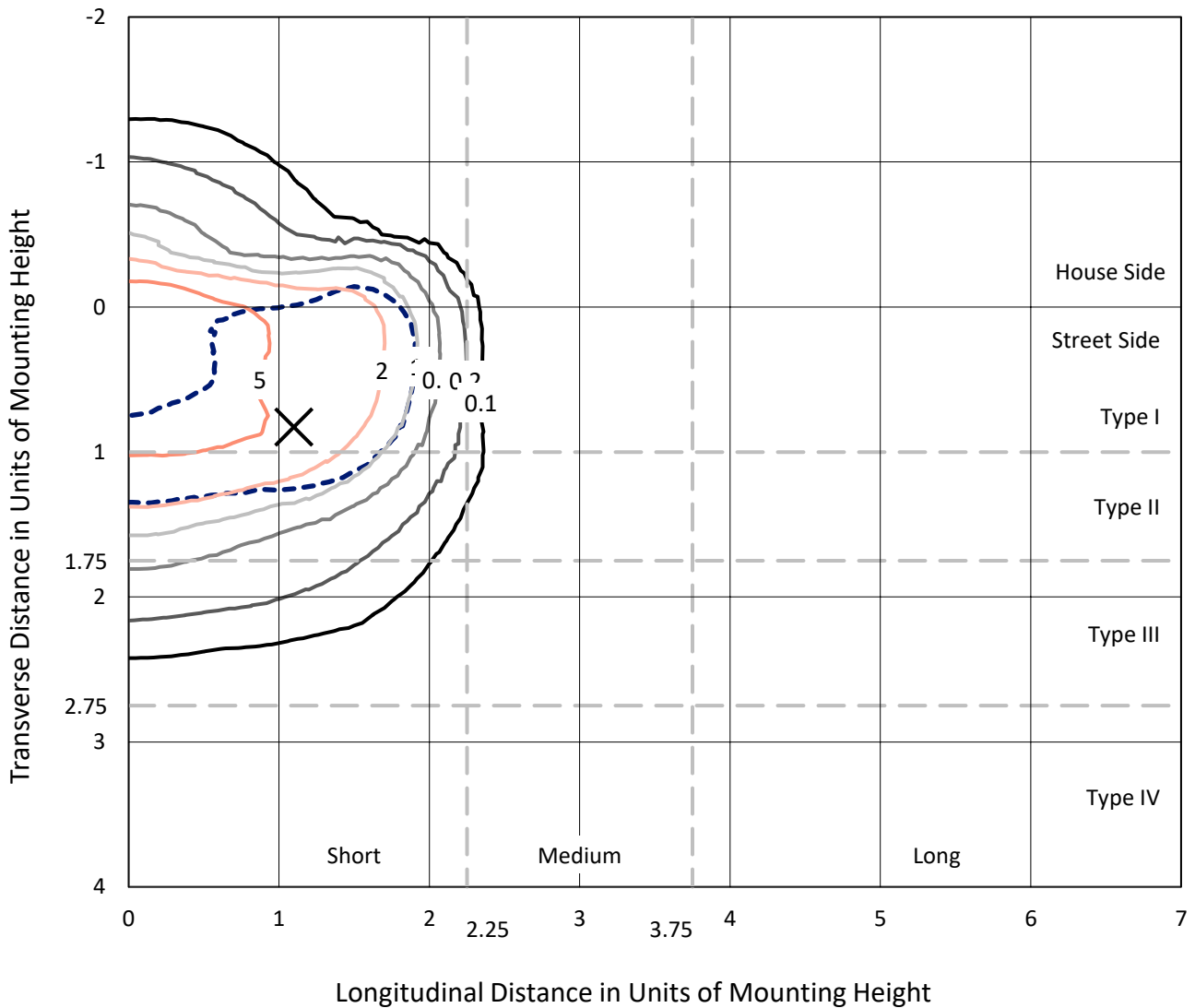
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

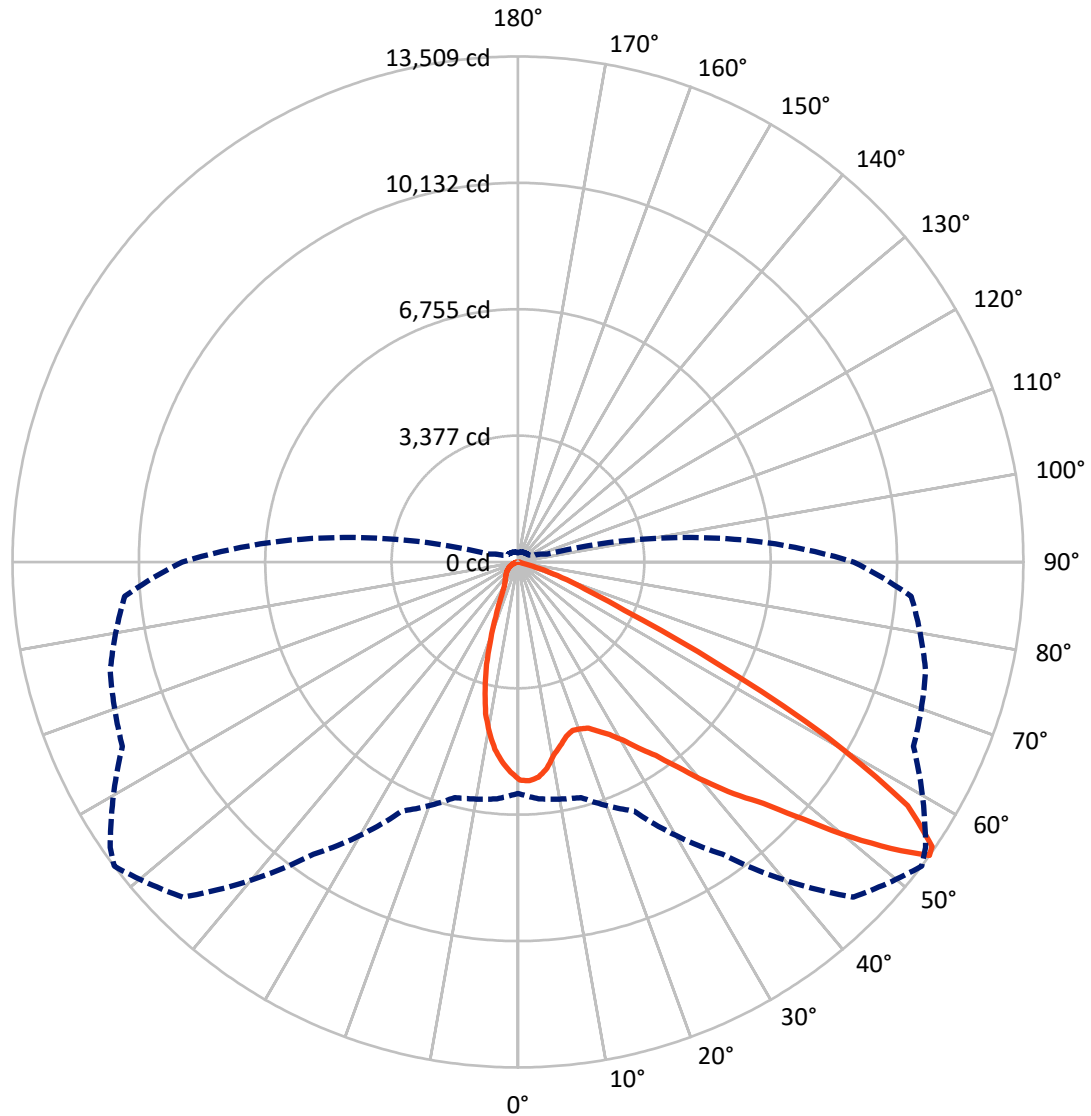
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	2685.8	0.0	2685.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13547.2	0.0	13547.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	16233.0	0.0	16233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.3	3.1
10°-20°	1146.9	7.1
20°-30°	1630.0	10.0
30°-40°	2515.6	15.5
40°-50°	3944.2	24.3
50°-60°	4581.7	28.2
60°-70°	1731.2	10.7
70°-80°	164.6	1.0
80°-90°	18.5	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°	16233.0	100.0
0°-180°	16233.0	100.0

Coefficient of Utilization

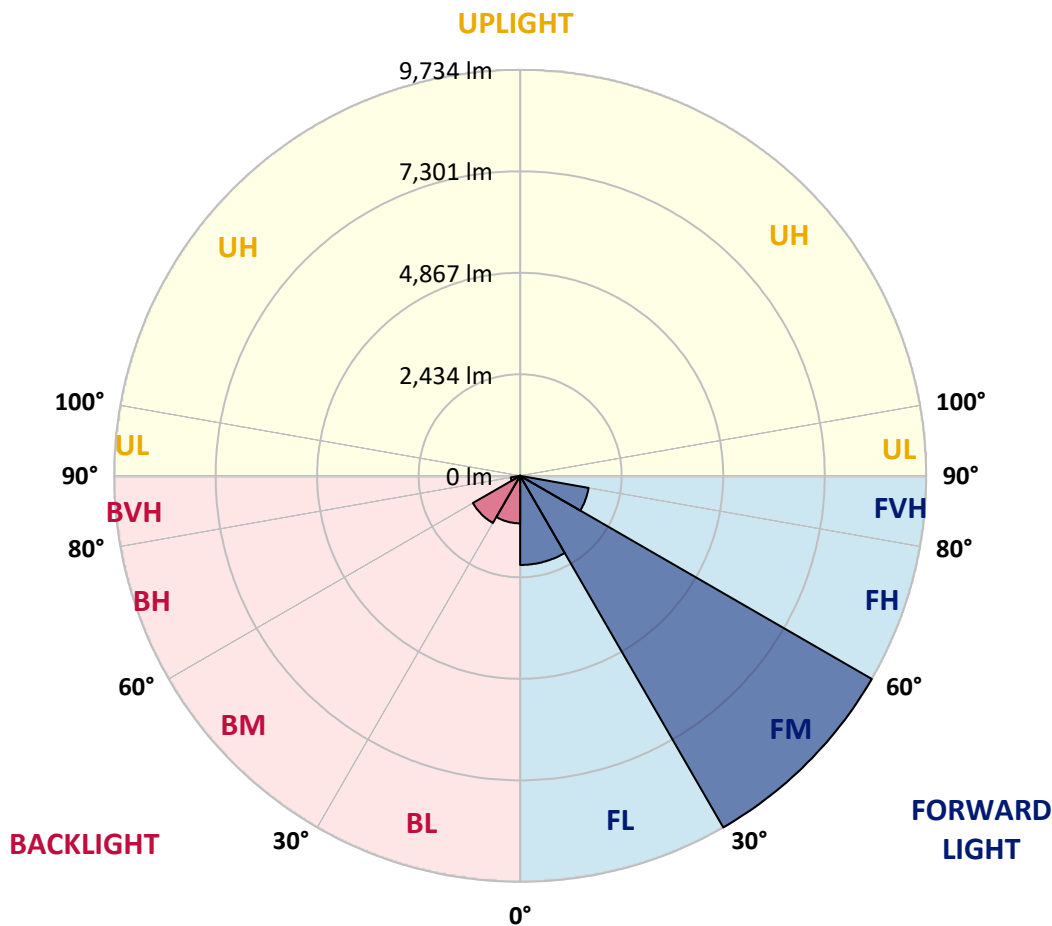


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.5	13.2			
FM (30°-60°)	9734.4	60.0			
FH (60°-80°)	1665.8	10.3			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	1139.7	7.0	B3/2500		
BM (30°-60°)	1307.0	8.1	B2/2500		
BH (60°-80°)	230.1	1.4	B1/500		G1/500
BVH (80°-90°)	8.9	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°	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6
2.5°	5800.4	5749.0	5800.4	5806.4	5842.7	5876.0	5854.8	5903.2	5876.0	5845.7	5836.7
5°	5331.6	5401.2	5404.2	5513.1	5488.9	5688.5	5776.2	5752.0	5900.2	5891.1	5869.9
7.5°	4911.3	4884.1	4920.3	5047.4	5207.6	5437.5	5564.5	5561.5	5773.2	5924.4	5909.2
10°	4521.1	4518.1	4593.7	4693.5	4829.6	5071.6	5247.0	5334.7	5664.3	5894.1	5927.4
12.5°	4258.0	4245.9	4327.6	4409.3	4624.0	4811.5	5035.3	5077.6	5455.6	5788.3	5842.7
15°	4085.7	4112.9	4118.9	4276.2	4412.3	4660.3	4835.7	4923.4	5358.8	5703.6	5912.3
17.5°	4055.4	4091.7	4094.7	4224.8	4369.9	4578.6	4732.8	4850.8	5277.2	5745.9	5915.3
20°	4115.9	4094.7	4112.9	4194.5	4336.7	4536.3	4760.1	4799.4	5250.0	5767.1	5948.6
22.5°	4288.3	4282.2	4236.9	4303.4	4403.2	4611.9	4823.6	4884.1	5328.6	5876.0	5975.8
25°	4478.8	4512.1	4469.7	4460.7	4530.2	4735.9	5017.1	5095.7	5591.7	6072.6	6060.5
27.5°	4835.7	4802.4	4802.4	4760.1	4741.9	4841.7	5225.8	5355.8	5885.1	6326.6	6157.2
30°	5177.4	5213.7	5186.5	5201.6	5080.6	5071.6	5522.2	5682.4	6405.2	6713.7	6362.9
32.5°	5718.7	5670.3	5715.7	5676.4	5516.1	5352.8	5924.4	6090.7	7034.2	7158.2	6671.3
35°	6169.3	6148.2	6341.7	6335.7	6075.6	5915.3	6350.8	6598.8	7472.7	7690.5	7034.2
37.5°	6810.5	6771.1	6991.9	7097.8	6864.9	6626.0	6961.7	7249.0	7881.0	8116.9	7406.2
40°	7469.7	7569.5	7865.9	8041.3	7793.3	7475.8	7708.6	7796.3	8153.2	8395.1	7660.2
42.5°	8304.4	8449.6	8752.0	8903.2	8882.0	8537.3	8467.7	8464.7	8349.8	8316.5	7847.7
45°	9105.8	9051.4	9517.1	9846.7	10112.9	10013.1	9199.6	9108.8	8661.3	8434.4	7896.1
47.5°	9456.6	9438.5	9756.0	10342.7	11250.0	11373.9	10264.1	9913.3	9187.5	8930.4	8159.2
50°	9003.0	9096.7	9411.2	10061.4	11452.6	12399.1	11570.5	11098.7	9801.4	9535.2	8782.2
52.5°	7521.1	7584.6	7884.0	8709.6	10763.1	13004.0	12822.5	12550.3	10929.4	10487.9	9867.9
54°	6184.4	6353.8	6517.1	7345.7	9535.2	12668.3	13509.0	13300.3	11664.3	11280.2	10551.4
55°	5386.1	5485.9	5603.8	6429.4	8685.4	12099.7	13430.4	13448.5	12157.2	11528.2	11011.0
57.5°	3934.5	4004.0	3883.0	4249.0	5963.7	9825.6	12284.2	12774.1	12822.5	11900.2	11292.3
60°	3006.0	3036.3	2900.2	2957.6	3707.6	6743.9	9502.0	10091.7	11567.5	10400.2	9565.5
62.5°	2331.6	2337.7	2334.7	2434.5	2555.4	3967.7	5942.5	6465.7	7974.8	7385.0	6495.9
65°	1717.7	1690.5	1738.9	2041.3	2180.4	2494.9	3130.0	3511.1	4333.7	3659.3	2615.9
67.5°	1112.9	1122.0	1170.4	1518.1	1868.9	1914.3	1926.4	1896.2	1899.2	1046.4	656.2
70°	668.3	683.5	668.3	858.9	1336.7	1373.0	1255.0	1224.8	955.6	248.0	245.0
72.5°	396.2	375.0	335.7	369.0	556.4	665.3	598.8	595.8	375.0	145.2	145.2
75°	166.3	151.2	124.0	111.9	148.2	142.1	142.1	127.0	99.8	96.8	90.7
77.5°	33.3	33.3	24.2	27.2	36.3	42.3	51.4	51.4	60.5	60.5	57.5
80°	0.0	3.0	9.1	18.1	27.2	39.3	45.4	45.4	51.4	51.4	42.3
82.5°	0.0	3.0	9.1	18.1	24.2	36.3	45.4	45.4	51.4	54.4	45.4
85°	0.0	3.0	9.1	15.1	24.2	30.2	30.2	27.2	21.2	18.1	12.1
87.5°	0.0	0.0	3.0	6.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6
2.5°	5857.8	5854.8	5782.2	5664.3	5637.1	5537.3	5525.2	5464.7	5498.0	5386.1	5374.0
5°	5809.5	5773.2	5685.5	5609.9	5389.1	5231.8	5107.8	4956.6	4868.9	4884.1	4826.6
7.5°	5879.0	5785.3	5631.0	5367.9	5098.8	4823.6	4675.4	4366.9	4255.0	4088.7	4064.5
10°	5806.4	5736.9	5498.0	5062.5	4690.5	4294.3	3946.6	3604.8	3344.7	3232.8	3208.7
12.5°	5800.4	5679.4	5280.2	4796.4	4258.0	3689.5	3184.5	2758.1	2501.0	2355.8	2322.6
15°	5706.6	5561.5	5035.3	4385.1	3641.1	2933.5	2383.1	1971.8	1775.2	1690.5	1714.7
17.5°	5715.7	5498.0	4790.3	3949.6	3033.3	2153.2	1627.0	1415.3	1363.9	1385.1	1385.1
20°	5706.6	5355.8	4493.9	3447.6	2322.6	1493.9	1194.6	1118.9	1152.2	1218.7	1203.6
22.5°	5658.2	5289.3	4221.8	2918.3	1708.7	1106.9	958.7	961.7	1013.1	1094.8	1112.9
25°	5694.5	5141.1	3877.0	2383.1	1246.0	883.1	831.6	852.8	907.3	967.7	979.8
27.5°	5667.3	5035.3	3517.1	1850.8	910.3	759.1	756.0	780.2	804.4	849.8	849.8
30°	5697.6	4938.5	3163.3	1376.0	750.0	695.6	683.5	701.6	725.8	734.9	731.9
32.5°	5809.5	4865.9	2755.0	1028.2	662.3	635.1	635.1	635.1	632.1	644.2	647.2
35°	6054.4	4878.0	2395.2	795.4	604.8	583.7	574.6	562.5	556.4	562.5	565.5
37.5°	6320.5	4872.0	2023.2	677.4	562.5	544.4	523.2	505.0	502.0	508.1	499.0
40°	6438.5	4929.4	1678.4	607.9	523.2	502.0	468.7	453.6	456.7	462.7	456.7
42.5°	6598.8	4947.6	1454.6	553.4	486.9	453.6	432.5	414.3	411.3	420.4	417.3
45°	6595.7	4844.7	1218.7	523.2	453.6	417.3	390.1	375.0	375.0	381.0	384.1
47.5°	6789.3	4829.6	1046.4	496.0	429.4	393.1	359.9	347.8	344.8	344.8	338.7
50°	7239.9	5041.3	913.3	465.7	399.2	365.9	338.7	323.6	311.5	305.4	302.4
52.5°	8119.9	5700.6	810.5	429.4	365.9	338.7	314.5	302.4	287.3	272.2	269.2
54°	8972.7	6381.0	804.4	399.2	338.7	320.6	299.4	293.3	275.2	254.0	248.0
55°	9356.8	6777.2	825.6	375.0	320.6	308.5	290.3	284.3	266.1	241.9	238.9
57.5°	9674.4	6931.4	813.5	311.5	290.3	287.3	272.2	263.1	241.9	208.7	202.6
60°	7787.3	5240.9	583.7	275.2	266.1	260.1	248.0	241.9	214.7	178.4	175.4
62.5°	4920.3	3015.1	372.0	241.9	232.9	223.8	208.7	202.6	178.4	142.1	133.1
65°	2095.8	1249.0	251.0	214.7	199.6	184.5	172.4	163.3	142.1	105.8	102.8
67.5°	544.4	444.6	208.7	187.5	166.3	145.2	136.1	121.0	96.8	72.6	69.6
70°	245.0	223.8	175.4	157.3	133.1	111.9	99.8	84.7	63.5	48.4	45.4
72.5°	145.2	142.1	133.1	117.9	99.8	84.7	72.6	57.5	42.3	27.2	27.2
75°	90.7	87.7	90.7	81.7	69.6	63.5	54.4	39.3	24.2	12.1	12.1
77.5°	54.4	54.4	54.4	51.4	48.4	48.4	39.3	24.2	12.1	3.0	3.0
80°	42.3	42.3	45.4	42.3	42.3	42.3	33.3	18.1	6.0	0.0	0.0
82.5°	42.3	45.4	51.4	48.4	42.3	36.3	30.2	18.1	6.0	0.0	0.0
85°	12.1	9.1	15.1	21.2	30.2	27.2	21.2	15.1	6.0	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	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)