

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: P533431

Luminaire Tested: **GALN-SA8D-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533431  
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-SA8D-760-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA 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: 36461 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

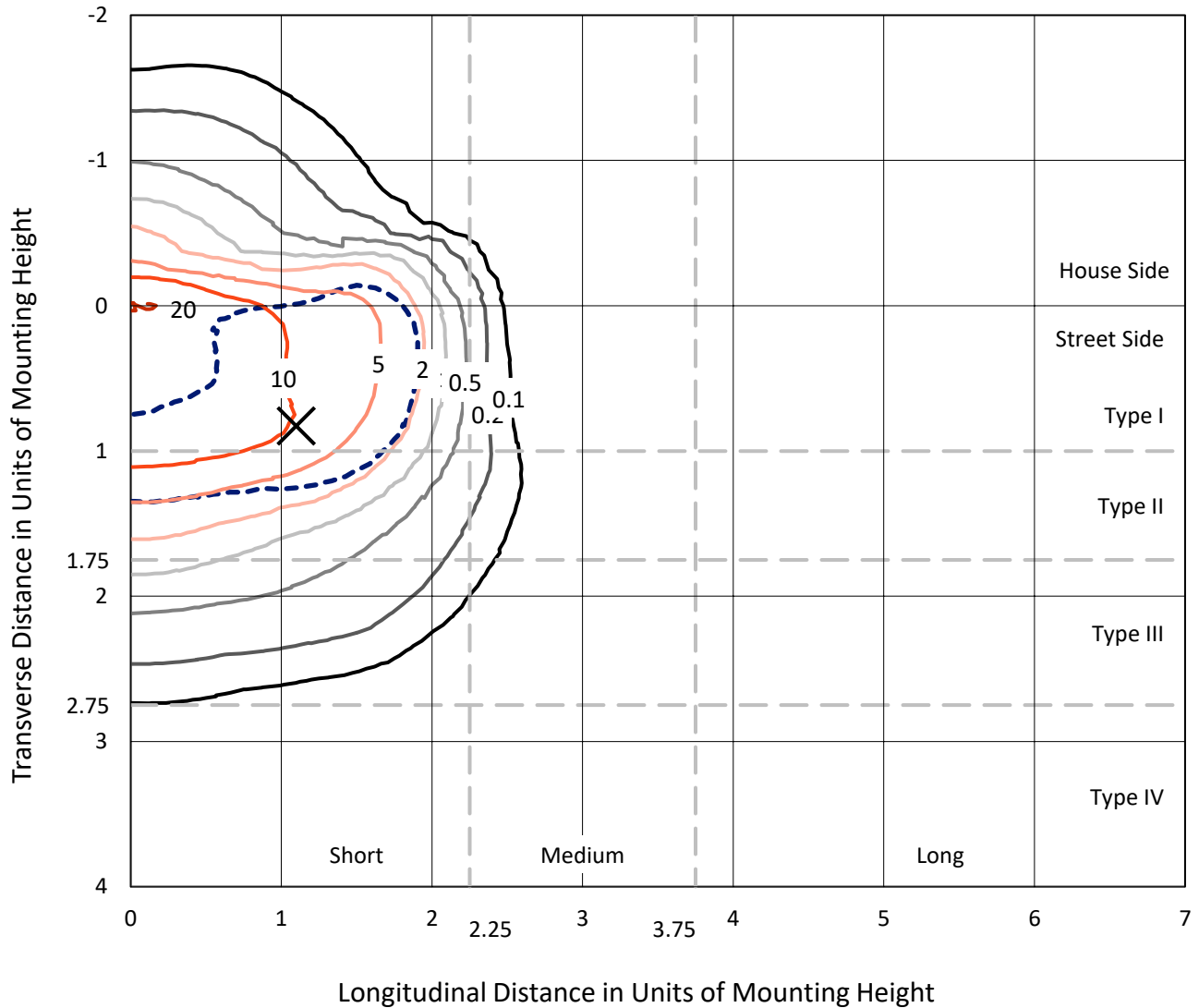
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

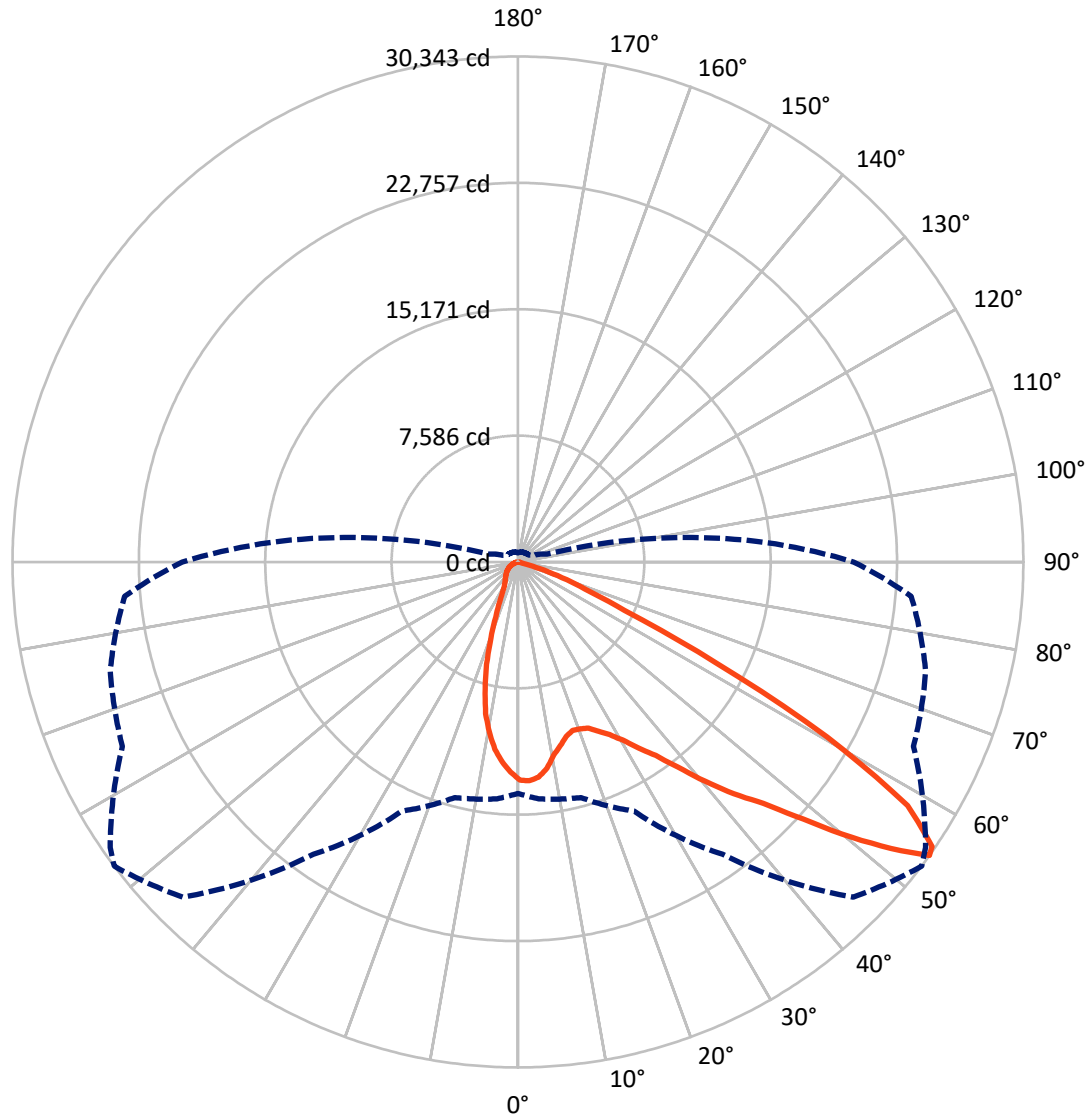
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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
<b>House Side</b>	Lumens	6032.6	0.0	6032.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	30428.4	0.0	30428.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	36461.0	0.0	36461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1123.6	3.1
10°-20°	2576.1	7.1
20°-30°	3661.2	10.0
30°-40°	5650.2	15.5
40°-50°	8859.0	24.3
50°-60°	10291.0	28.2
60°-70°	3888.5	10.7
70°-80°	369.8	1.0
80°-90°	41.6	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°	36461.0	100.0
0°-180°	36461.0	100.0

**Coefficient of Utilization**



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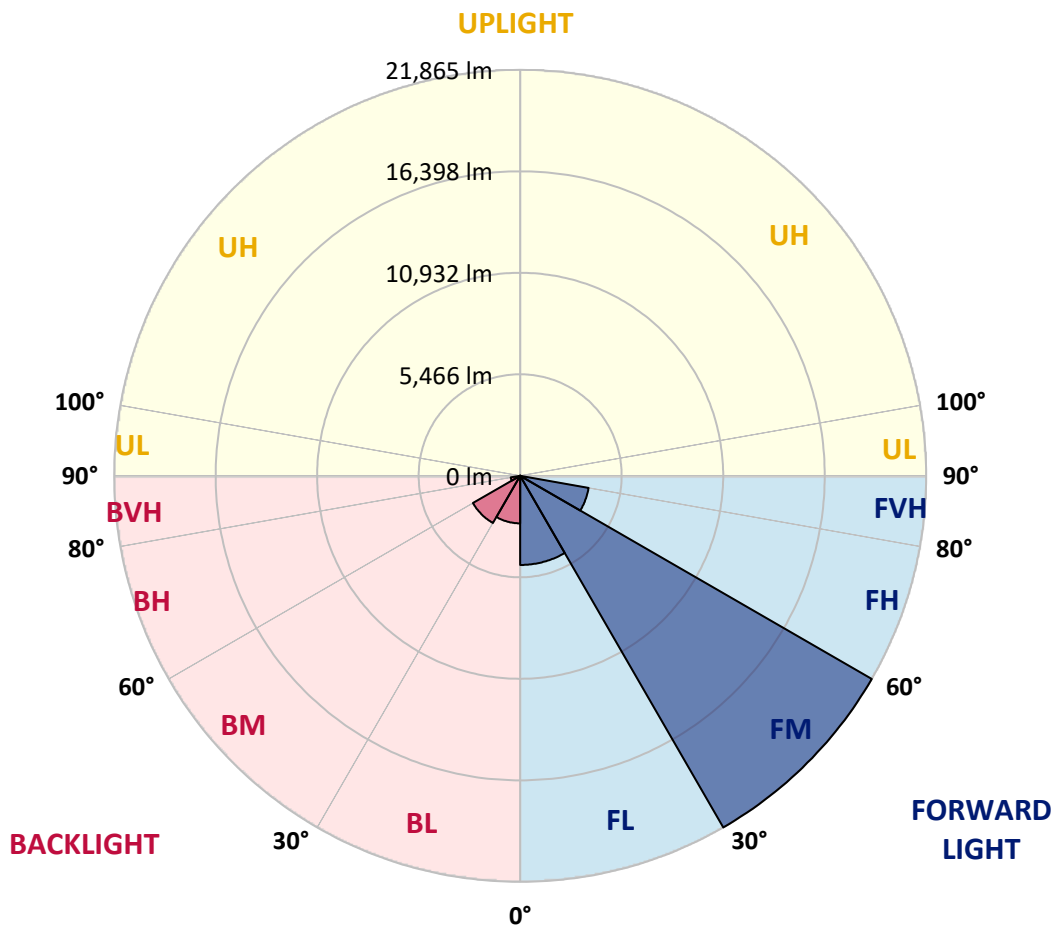
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4801.0	13.2			
FM (30°-60°)	21864.5	60.0			
FH (60°-80°)	3741.5	10.3			G2/5000
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	2560.0	7.0	B4/5000		
BM (30°-60°)	2935.6	8.1	B3/5000		
BH (60°-80°)	516.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2
2.5°	13028.3	12912.8	13028.3	13041.8	13123.3	13198.1	13150.5	13259.2	13198.1	13130.1	13109.8
5°	11975.4	12131.6	12138.4	12383.0	12328.6	12776.9	12973.9	12919.6	13252.4	13232.0	13184.5
7.5°	11031.2	10970.1	11051.6	11336.9	11696.9	12213.1	12498.4	12491.6	12967.1	13306.7	13272.8
10°	10155.0	10148.2	10318.0	10542.2	10847.8	11391.2	11785.2	11982.2	12722.6	13238.8	13313.5
12.5°	9564.0	9536.8	9720.2	9903.6	10385.9	10807.1	11309.7	11404.8	12253.9	13001.1	13123.3
15°	9176.8	9238.0	9251.6	9604.8	9910.4	10467.4	10861.4	11058.4	12036.5	12810.9	13279.6
17.5°	9108.9	9190.4	9197.2	9489.3	9815.3	10284.0	10630.5	10895.4	11853.1	12906.0	13286.4
20°	9244.8	9197.2	9238.0	9421.4	9740.6	10188.9	10691.6	10779.9	11792.0	12953.5	13361.1
22.5°	9631.9	9618.4	9516.5	9665.9	9890.1	10358.7	10834.2	10970.1	11968.6	13198.1	13422.2
25°	10059.9	10134.6	10039.5	10019.1	10175.3	10637.2	11269.0	11445.6	12559.6	13639.6	13612.4
27.5°	10861.4	10786.7	10786.7	10691.6	10650.8	10875.0	11737.7	12029.7	13218.4	14210.2	13829.8
30°	11629.0	11710.5	11649.3	11683.3	11411.6	11391.2	12403.3	12763.3	14386.8	15079.6	14291.7
32.5°	12844.8	12736.2	12838.1	12749.8	12389.7	12022.9	13306.7	13680.3	15799.6	16078.1	14984.5
35°	13857.0	13809.4	14244.1	14230.5	13646.4	13286.4	14264.5	14821.5	16784.6	17273.6	15799.6
37.5°	15297.0	15208.7	15704.5	15942.3	15419.3	14882.6	15636.6	16281.9	17701.6	18231.4	16635.1
40°	16777.8	17001.9	17667.6	18061.6	17504.6	16791.4	17314.4	17511.4	18312.9	18856.3	17205.7
42.5°	18652.5	18978.6	19657.8	19997.5	19949.9	19175.6	19019.3	19012.6	18754.4	18679.7	17626.9
45°	20452.6	20330.3	21376.4	22116.8	22714.5	22490.4	20663.2	20459.4	19454.1	18944.6	17735.5
47.5°	21240.5	21199.8	21913.0	23230.8	25268.6	25547.1	23054.2	22266.2	20636.0	20058.6	18326.5
50°	20221.6	20432.2	21138.6	22599.1	25723.7	27849.8	25988.6	24928.9	22014.9	21417.1	19725.8
52.5°	16893.3	17035.9	17708.4	19562.8	24174.9	29208.3	28800.7	28189.4	24548.5	23556.8	22164.3
54°	13890.9	14271.3	14638.1	16499.3	21417.1	28454.3	30342.6	29874.0	26199.1	25336.5	23699.5
55°	12097.7	12321.8	12586.7	14441.1	19508.4	27177.3	30166.0	30206.8	27306.3	25893.5	24731.9
57.5°	8837.2	8993.4	8721.7	9543.6	13395.1	22069.2	27591.6	28692.0	28800.7	26729.0	25363.7
60°	6751.9	6819.8	6514.1	6643.2	8327.8	15147.5	21342.4	22667.0	25981.8	23359.8	21485.1
62.5°	5237.1	5250.7	5243.9	5468.1	5739.8	8911.9	13347.5	14522.6	17912.1	16587.6	14590.6
65°	3858.2	3797.1	3905.8	4585.0	4897.5	5603.9	7030.4	7886.2	9733.8	8219.1	5875.6
67.5°	2499.7	2520.1	2628.7	3409.9	4197.8	4299.7	4326.9	4259.0	4265.8	2350.2	1474.0
70°	1501.2	1535.1	1501.2	1929.1	3002.3	3083.9	2818.9	2751.0	2146.5	557.0	550.2
72.5°	889.8	842.3	754.0	828.7	1249.8	1494.4	1344.9	1338.1	842.3	326.0	326.0
75°	373.6	339.6	278.5	251.3	332.8	319.3	319.3	285.3	224.2	217.4	203.8
77.5°	74.7	74.7	54.3	61.1	81.5	95.1	115.5	115.5	135.9	135.9	129.1
80°	0.0	6.8	20.4	40.8	61.1	88.3	101.9	101.9	115.5	115.5	95.1
82.5°	0.0	6.8	20.4	40.8	54.3	81.5	101.9	101.9	115.5	122.3	101.9
85°	0.0	6.8	20.4	34.0	54.3	67.9	67.9	61.1	47.5	40.8	27.2
87.5°	0.0	0.0	6.8	13.6	6.8	13.6	13.6	13.6	13.6	13.6	13.6
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°	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2	13096.2
2.5°	13157.3	13150.5	12987.5	12722.6	12661.4	12437.3	12410.1	12274.3	12349.0	12097.7	12070.5
5°	13048.6	12967.1	12770.1	12600.3	12104.5	11751.2	11472.7	11133.1	10936.1	10970.1	10841.0
7.5°	13204.9	12994.3	12647.9	12056.9	11452.4	10834.2	10501.4	9808.5	9557.2	9183.6	9129.3
10°	13041.8	12885.6	12349.0	11370.9	10535.4	9645.5	8864.4	8096.8	7512.6	7261.3	7207.0
12.5°	13028.3	12756.5	11859.9	10773.1	9564.0	8287.0	7152.6	6194.9	5617.5	5291.5	5216.7
15°	12817.7	12491.6	11309.7	9849.3	8178.3	6588.8	5352.6	4428.8	3987.3	3797.1	3851.4
17.5°	12838.1	12349.0	10759.5	8871.2	6813.0	4836.3	3654.4	3178.9	3063.5	3111.0	3111.0
20°	12817.7	12029.7	10093.8	7743.6	5216.7	3355.6	2683.1	2513.3	2588.0	2737.4	2703.5
22.5°	12709.0	11880.3	9482.5	6554.9	3837.8	2486.1	2153.3	2160.1	2275.5	2458.9	2499.7
25°	12790.5	11547.5	8708.1	5352.6	2798.6	1983.4	1868.0	1915.5	2037.8	2173.6	2200.8
27.5°	12729.4	11309.7	7899.8	4157.1	2044.6	1704.9	1698.2	1752.5	1806.8	1908.7	1908.7
30°	12797.3	11092.4	7105.1	3090.6	1684.6	1562.3	1535.1	1575.9	1630.2	1650.6	1643.8
32.5°	13048.6	10929.3	6188.1	2309.5	1487.6	1426.5	1426.5	1426.5	1419.7	1446.8	1453.6
35°	13598.8	10956.5	5379.8	1786.5	1358.5	1311.0	1290.6	1263.4	1249.8	1263.4	1270.2
37.5°	14196.6	10942.9	4544.3	1521.5	1263.4	1222.7	1175.1	1134.4	1127.6	1141.2	1120.8
40°	14461.5	11072.0	3769.9	1365.3	1175.1	1127.6	1052.9	1018.9	1025.7	1039.3	1025.7
42.5°	14821.5	11112.7	3267.3	1243.0	1093.6	1018.9	971.3	930.6	923.8	944.2	937.4
45°	14814.7	10881.8	2737.4	1175.1	1018.9	937.4	876.2	842.3	842.3	855.9	862.7
47.5°	15249.4	10847.8	2350.2	1114.0	964.6	883.0	808.3	781.2	774.4	774.4	760.8
50°	16261.5	11323.3	2051.4	1046.1	896.6	821.9	760.8	726.8	699.6	686.1	679.3
52.5°	18238.2	12804.1	1820.4	964.6	821.9	760.8	706.4	679.3	645.3	611.3	604.5
54°	20153.7	14332.4	1806.8	896.6	760.8	720.0	672.5	658.9	618.1	570.6	557.0
55°	21016.4	15222.3	1854.4	842.3	720.0	692.8	652.1	638.5	597.8	543.4	536.6
57.5°	21729.6	15568.7	1827.2	699.6	652.1	645.3	611.3	591.0	543.4	468.7	455.1
60°	17491.0	11771.6	1311.0	618.1	597.8	584.2	557.0	543.4	482.3	400.8	394.0
62.5°	11051.6	6772.2	835.5	543.4	523.0	502.7	468.7	455.1	400.8	319.3	298.9
65°	4707.3	2805.4	563.8	482.3	448.3	414.3	387.2	366.8	319.3	237.7	230.9
67.5°	1222.7	998.5	468.7	421.1	373.6	326.0	305.7	271.7	217.4	163.0	156.2
70°	550.2	502.7	394.0	353.2	298.9	251.3	224.2	190.2	142.6	108.7	101.9
72.5°	326.0	319.3	298.9	264.9	224.2	190.2	163.0	129.1	95.1	61.1	61.1
75°	203.8	197.0	203.8	183.4	156.2	142.6	122.3	88.3	54.3	27.2	27.2
77.5°	122.3	122.3	122.3	115.5	108.7	108.7	88.3	54.3	27.2	6.8	6.8
80°	95.1	95.1	101.9	95.1	95.1	95.1	74.7	40.8	13.6	0.0	0.0
82.5°	95.1	101.9	115.5	108.7	95.1	81.5	67.9	40.8	13.6	0.0	0.0
85°	27.2	20.4	34.0	47.5	67.9	61.1	47.5	34.0	13.6	0.0	0.0
87.5°	13.6	13.6	13.6	13.6	6.8	6.8	6.8	6.8	6.8	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)