

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: P650850

Luminaire Tested: **GALN-SA4C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19348 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

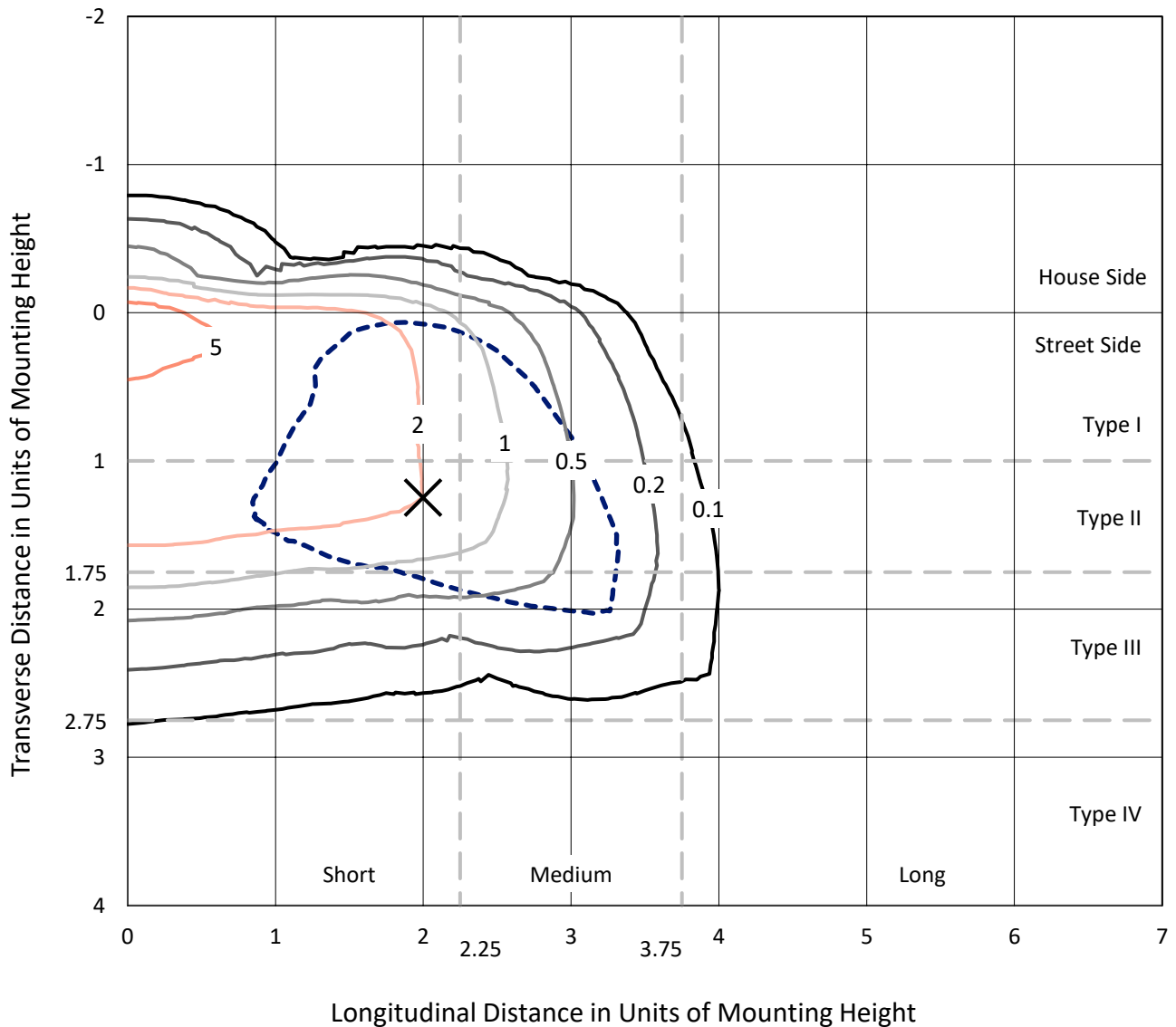
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

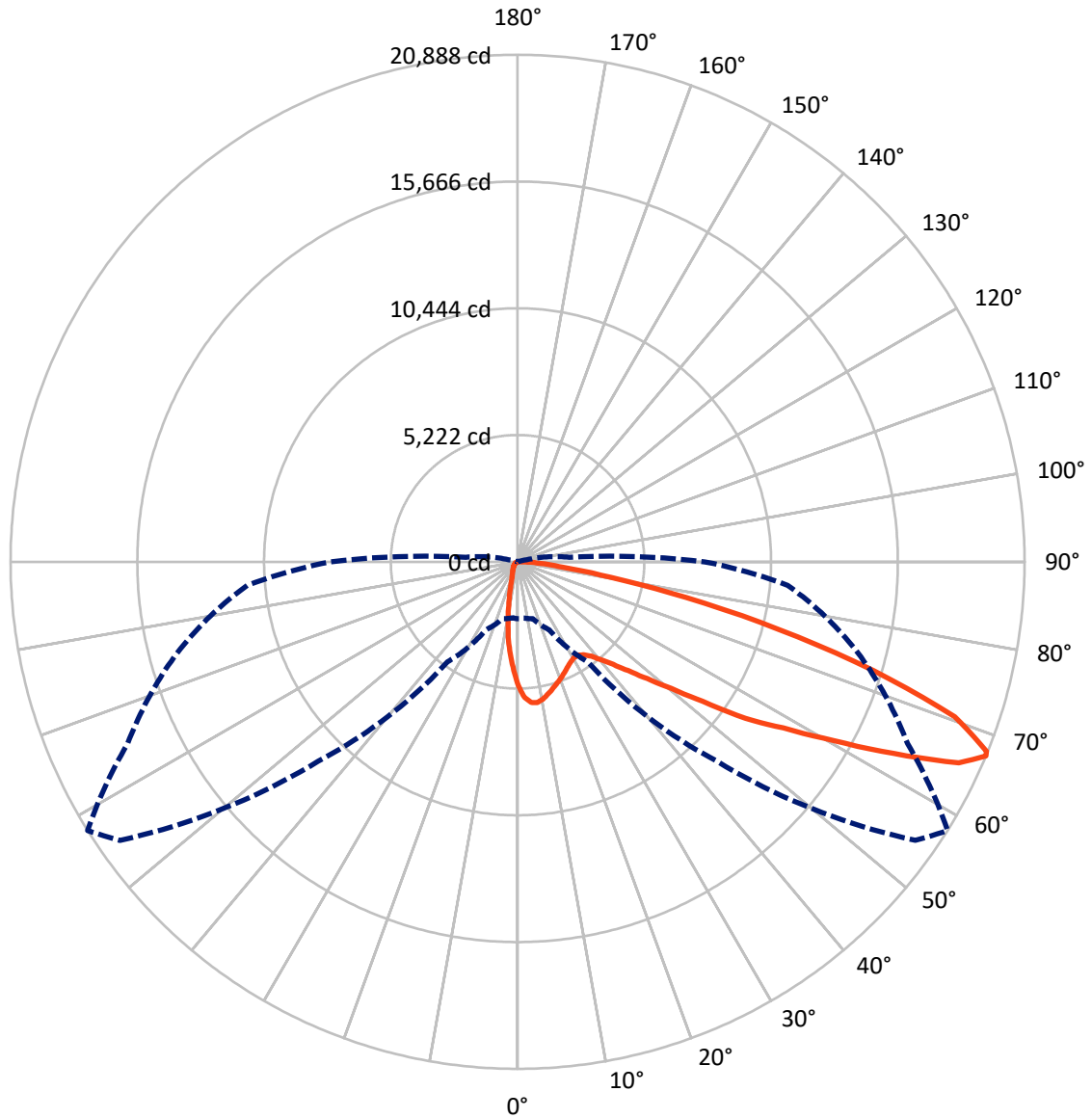
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.3	0.0	1396.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17951.8	0.0	17951.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	19348.0	0.0	19348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.2	2.2
10°-20°	898.9	4.6
20°-30°	1218.1	6.3
30°-40°	1689.4	8.7
40°-50°	2694.4	13.9
50°-60°	4657.5	24.1
60°-70°	5320.3	27.5
70°-80°	2218.1	11.5
80°-90°	235.2	1.2
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°	19348.0	100.0
0°-180°	19348.0	100.0

Coefficient of Utilization



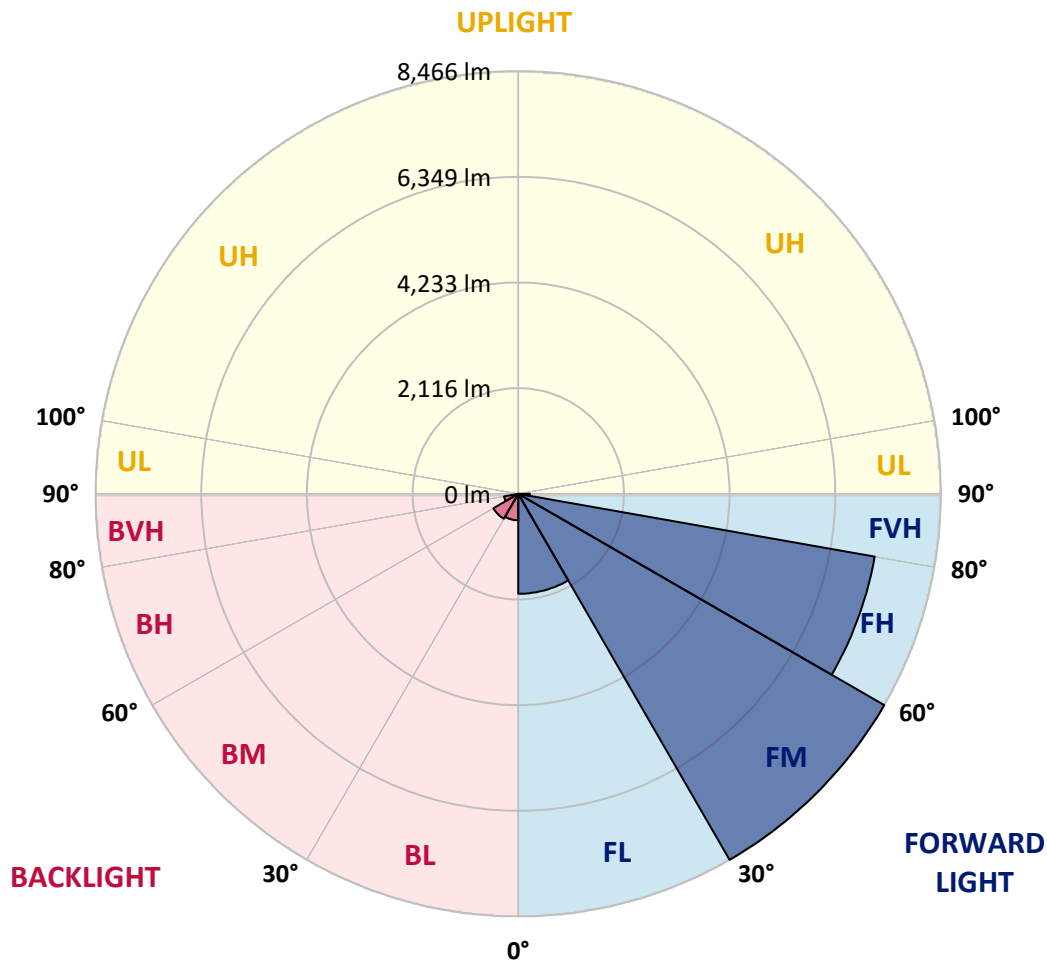
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.0	10.4			
FM (30°-60°)	8465.6	43.8			
FH (60°-80°)	7249.7	37.5			G3/7500
FVH (80°-90°)	233.5	1.2			G3/500
BL (0°-30°)	530.2	2.7	B2/1000		
BM (30°-60°)	575.7	3.0	B1/1000		
BH (60°-80°)	288.6	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0
2.5°	5952.6	5961.6	5928.0	5900.9	5831.1	5756.1	5656.5	5603.5	5513.0	5356.6	5183.3
5°	6092.2	6103.8	6098.7	6092.2	6065.0	5992.6	5866.0	5819.4	5686.3	5431.5	5118.7
7.5°	5781.9	5824.6	5829.7	5880.2	5928.0	5934.5	5886.7	5851.8	5728.9	5430.3	5003.6
10°	5370.8	5399.2	5440.6	5498.8	5613.8	5709.5	5756.1	5750.8	5679.8	5390.1	4869.1
12.5°	4955.8	4971.2	5034.6	5134.1	5275.1	5438.0	5562.1	5586.7	5587.9	5342.3	4756.6
15°	4598.9	4592.4	4641.6	4756.6	4954.4	5158.7	5381.1	5419.9	5482.0	5295.8	4651.9
17.5°	4293.7	4327.4	4335.1	4461.8	4644.2	4909.2	5192.3	5260.9	5385.0	5255.7	4565.3
20°	4105.0	4123.1	4139.9	4211.1	4375.2	4654.5	5015.2	5109.6	5294.5	5219.5	4468.3
22.5°	4049.4	4061.0	4046.8	4068.8	4185.2	4433.4	4822.5	4947.9	5207.9	5185.9	4389.4
25°	4092.1	4103.7	4070.1	4044.2	4084.3	4253.7	4636.3	4789.0	5138.0	5179.4	4330.0
27.5°	4195.5	4217.4	4170.9	4124.4	4101.1	4156.7	4490.3	4667.4	5090.2	5210.4	4302.8
30°	4357.1	4370.1	4335.1	4278.3	4225.3	4169.7	4414.0	4583.4	5077.3	5282.8	4300.2
32.5°	4533.0	4560.1	4540.7	4503.2	4434.7	4302.8	4436.0	4586.0	5108.3	5387.5	4332.6
35°	4750.1	4781.2	4799.3	4791.5	4703.6	4539.4	4575.6	4702.4	5191.1	5580.2	4420.5
37.5°	4963.5	4990.7	5092.8	5127.7	5050.1	4895.0	4847.1	4931.2	5373.3	5832.3	4579.5
40°	5207.9	5244.1	5387.5	5520.7	5483.2	5320.3	5232.4	5302.3	5652.6	6212.5	4880.7
42.5°	5441.9	5506.5	5725.0	5960.3	5995.2	5812.9	5754.8	5778.0	6066.4	6759.4	5300.9
45°	5774.1	5834.9	6116.8	6436.1	6600.3	6458.1	6398.7	6394.7	6634.0	7528.6	5982.3
47.5°	6253.8	6308.1	6640.4	6955.9	7248.1	7267.5	7155.0	7193.7	7347.6	8428.5	6817.6
50°	6842.1	6970.1	7188.6	7517.0	7907.5	8223.0	8257.9	8206.1	8338.0	9470.6	7820.8
52.5°	7696.7	7745.9	7946.3	8216.5	8674.2	9209.5	9624.5	9553.3	9512.0	10463.6	8834.5
55°	8334.1	8400.1	8711.7	9082.7	9753.7	10459.7	11359.6	11384.1	10861.8	11417.8	9826.2
57.5°	8141.5	8242.3	8714.3	9460.2	10935.4	12225.8	12895.6	12912.3	12110.7	12344.7	10945.8
60°	7152.4	7200.2	7876.5	8872.0	11036.3	14139.3	15074.1	14938.3	13381.7	13381.7	11934.9
62.5°	5072.1	5147.1	5695.3	7160.2	9967.1	14803.9	17683.2	17402.6	15132.3	14373.4	12524.4
65°	3241.3	3169.0	3532.2	4520.0	7425.2	13822.5	19954.8	19971.6	16779.5	14770.2	12202.5
67°	2347.9	2319.5	2424.2	3090.1	5034.6	11619.4	20002.7	20888.3	17725.8	14519.4	11173.4
67.5°	2147.5	2169.5	2245.8	2787.5	4574.4	10573.5	19785.5	20834.0	17939.2	14368.1	10801.0
70°	1627.8	1590.2	1673.0	1971.7	2742.2	6670.1	17019.9	19107.9	17674.1	12867.0	8630.2
72.5°	1197.2	1193.4	1308.4	1612.3	2111.3	3552.9	12776.6	15321.0	14439.3	9797.7	5434.1
75°	808.0	844.3	1027.9	1347.2	1913.5	2304.0	8710.3	11115.2	10024.0	5563.4	2221.2
77.5°	460.3	462.9	662.0	1082.2	1718.2	1854.1	5161.3	7081.3	5306.1	1850.2	659.4
80°	199.1	218.5	328.4	786.1	1424.8	1642.0	2959.5	3891.6	2146.2	391.7	213.4
82.5°	73.7	86.6	144.8	483.6	1039.5	1352.4	1788.1	1857.9	727.9	138.3	133.1
85°	0.0	2.6	53.0	226.2	541.8	603.8	1194.6	1101.5	321.9	65.9	86.6
87.5°	0.0	0.0	0.0	23.3	71.1	225.0	371.0	413.8	77.5	23.3	20.7
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°	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0	5129.0
2.5°	5090.2	5006.1	4795.4	4584.7	4428.2	4297.7	4101.1	3993.8	3936.9	3852.9	3858.1
5°	4962.2	4791.5	4420.5	4036.5	3726.2	3423.6	3061.7	2915.5	2792.7	2722.9	2676.3
7.5°	4772.2	4520.0	3970.5	3458.5	2981.4	2452.7	2055.7	1790.7	1612.3	1546.3	1482.9
10°	4564.0	4229.1	3514.1	2804.3	2142.4	1596.7	1260.6	1017.5	930.9	850.8	858.5
12.5°	4371.3	3964.1	3095.2	2213.4	1501.1	1014.9	791.3	691.7	663.3	654.2	654.2
15°	4213.6	3710.7	2645.3	1664.0	1029.1	729.2	633.5	606.4	596.0	593.4	593.4
17.5°	4045.5	3470.2	2239.3	1229.5	748.6	610.2	577.9	559.9	556.0	553.4	553.4
20°	3895.5	3228.4	1854.1	915.3	605.1	549.5	528.8	517.1	513.3	510.7	512.0
22.5°	3753.3	3013.8	1492.0	691.7	532.7	500.4	479.7	468.0	460.3	453.8	455.1
25°	3626.6	2806.9	1199.9	566.3	479.7	451.2	430.5	413.8	397.0	389.1	387.9
27.5°	3537.4	2625.9	934.8	484.8	431.9	400.8	374.9	354.2	332.3	320.7	318.1
30°	3463.7	2442.3	739.6	428.0	384.0	354.2	321.9	292.2	269.0	257.3	252.1
32.5°	3415.9	2267.8	583.1	381.4	343.9	307.7	271.5	241.8	215.9	204.3	201.7
35°	3408.2	2121.7	477.1	342.6	307.7	269.0	231.4	199.1	177.1	165.5	162.9
37.5°	3463.7	2009.1	399.5	311.6	278.0	235.3	193.9	164.2	144.8	135.7	134.5
40°	3612.4	1938.1	346.5	285.8	250.8	204.3	165.5	139.6	120.3	111.2	111.2
42.5°	3895.5	1940.7	311.6	261.1	223.7	174.5	141.0	116.4	99.6	91.8	89.2
45°	4337.7	2028.6	281.8	236.6	197.8	151.3	120.3	95.7	78.9	72.4	72.4
47.5°	4929.9	2203.1	256.0	212.0	174.5	129.3	102.2	77.5	63.3	56.9	56.9
50°	5704.3	2483.7	234.1	191.3	155.2	111.2	82.8	63.3	49.1	44.0	42.6
52.5°	6513.7	2830.2	208.1	173.2	133.1	94.4	67.2	49.1	37.5	33.6	32.3
55°	7407.1	3169.0	183.6	155.2	108.6	78.9	53.0	38.8	27.2	23.3	23.3
57.5°	8308.2	3501.3	153.8	129.3	85.4	58.2	41.4	28.4	18.1	14.2	14.2
60°	9071.1	3608.6	130.6	104.7	64.7	41.4	29.8	18.1	10.3	6.5	6.5
62.5°	9175.8	3246.5	109.9	80.1	46.5	28.4	15.5	10.3	3.9	2.6	2.6
65°	8607.0	2637.5	91.8	60.8	31.0	14.2	6.5	3.9	1.3	0.0	0.0
67°	7712.2	2138.5	75.0	45.2	22.0	9.1	3.9	1.3	0.0	0.0	0.0
67.5°	7483.4	2038.9	72.4	42.6	19.4	7.7	2.6	1.3	0.0	0.0	0.0
70°	5872.5	1526.9	51.7	25.8	11.6	5.1	0.0	0.0	0.0	0.0	0.0
72.5°	3649.9	863.7	37.5	15.5	7.7	2.6	0.0	0.0	0.0	0.0	0.0
75°	1379.6	302.5	25.8	10.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	429.2	115.0	15.5	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.8	44.0	10.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.2	18.1	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.6	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	2.6	1.3	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)