

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: P383189

Luminaire Tested: **GLEON-SA5B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21781.4 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

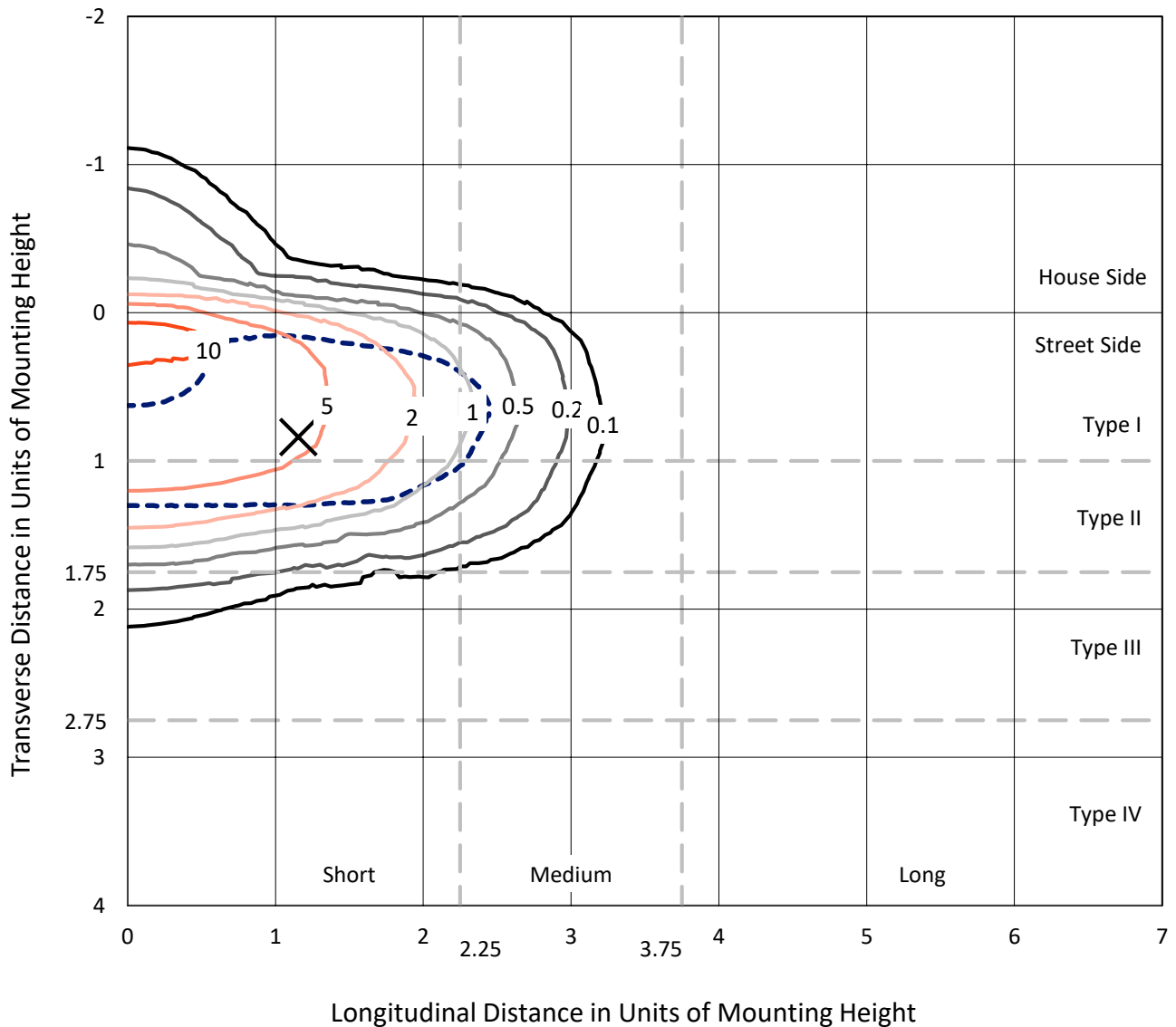
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

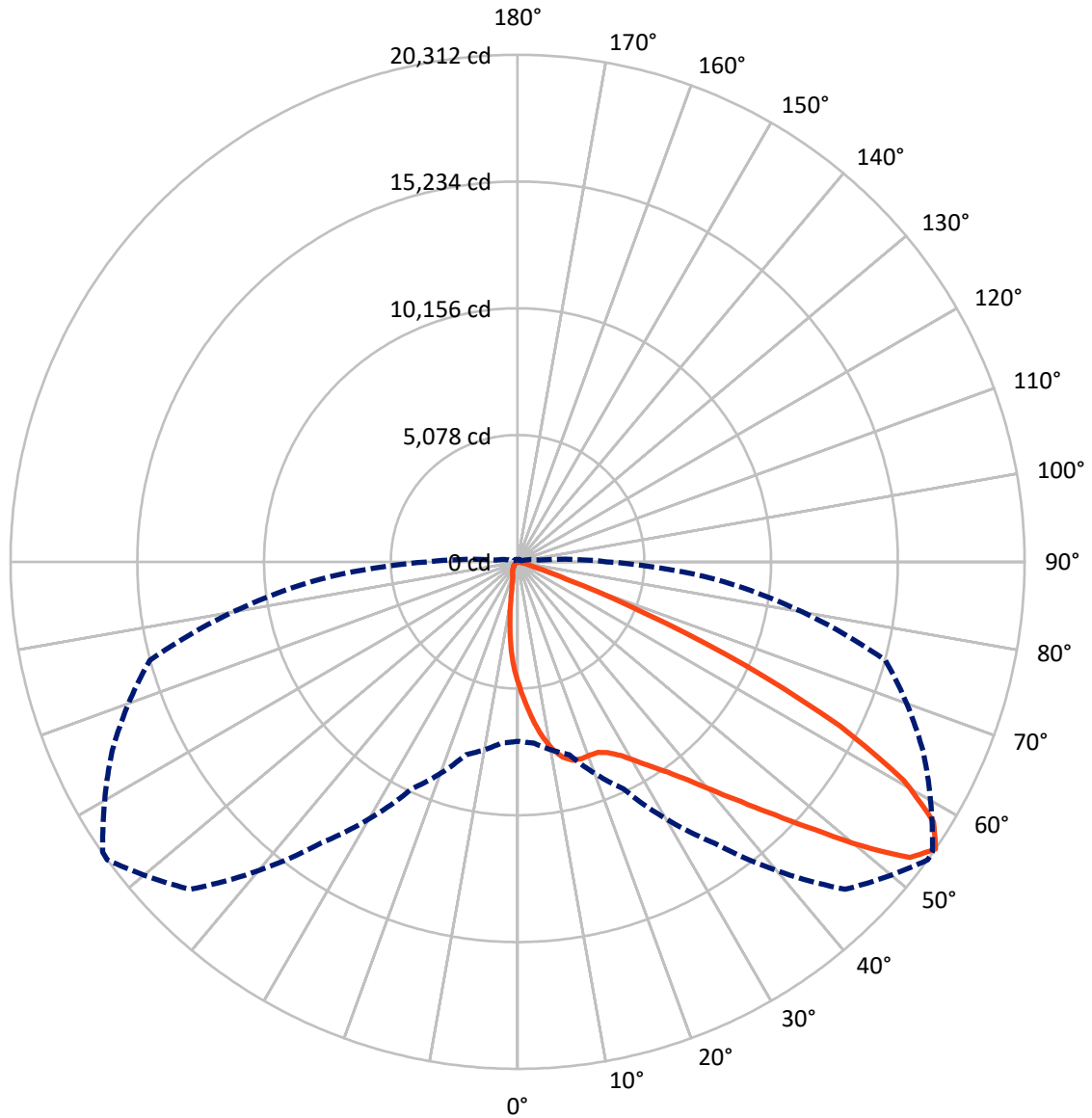
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.7	0.0	1086.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20694.7	0.0	20694.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	21781.4	0.0	21781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	2.1
10°-20°	1232.0	5.7
20°-30°	2103.4	9.7
30°-40°	3375.7	15.5
40°-50°	5394.4	24.8
50°-60°	5780.2	26.5
60°-70°	2967.7	13.6
70°-80°	449.5	2.1
80°-90°	29.3	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°	21781.4	100.0
0°-180°	21781.4	100.0

Coefficient of Utilization

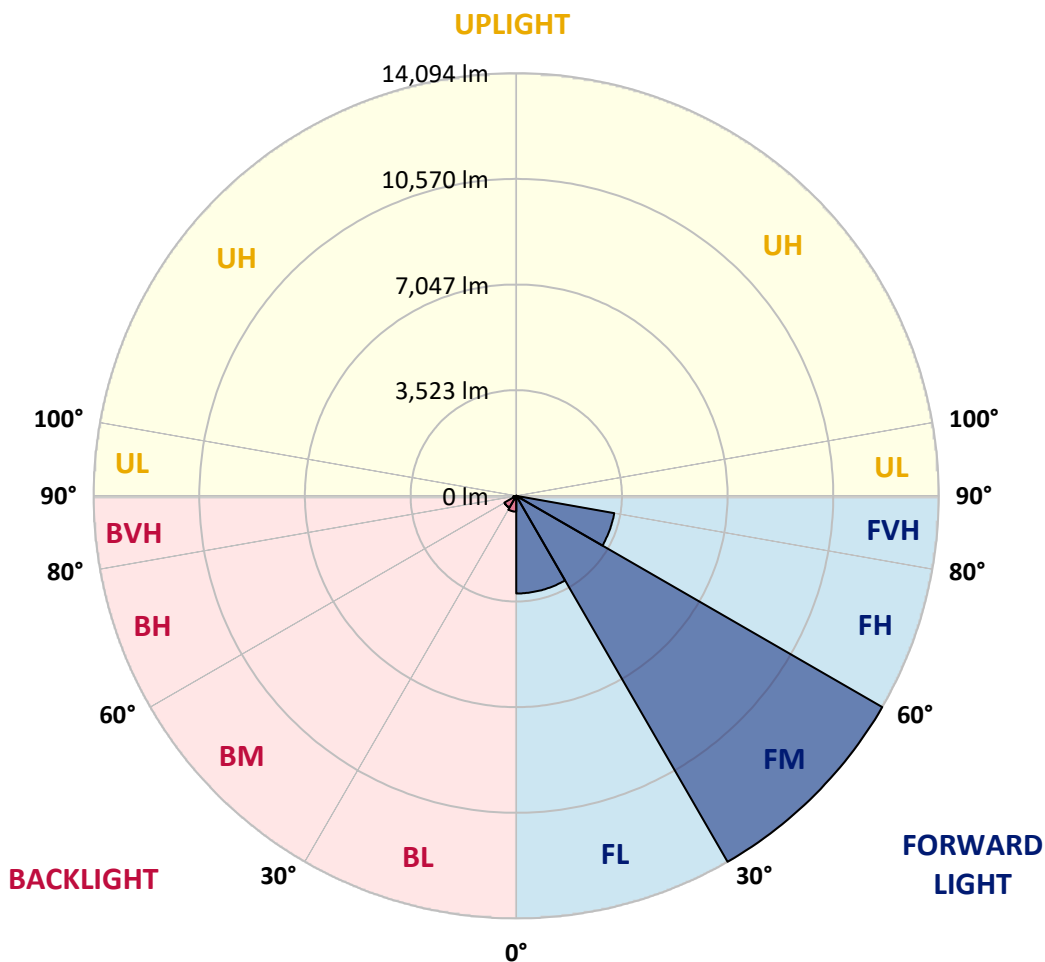


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.9	14.9			
FM (30°-60°)	14093.6	64.7			
FH (60°-80°)	3317.1	15.2			G2/5000
FVH (80°-90°)	28.1	0.1			G1/100
BL (0°-30°)	528.7	2.4	B2/1000		
BM (30°-60°)	456.7	2.1	B1/1000		
BH (60°-80°)	100.1	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1
2.5°	6121.7	6030.5	6033.3	5991.9	5840.4	5721.9	5598.7	5569.5	5377.6	5176.3	4982.6
5°	7179.9	7113.1	7097.2	7017.2	6806.4	6583.5	6344.6	6289.2	5913.8	5501.8	5096.4
7.5°	7723.6	7724.6	7711.4	7682.2	7550.6	7334.2	7042.6	6984.3	6473.5	5855.5	5214.9
10°	7565.6	7601.3	7674.7	7771.6	7872.2	7844.9	7625.7	7573.1	7018.1	6229.9	5346.6
12.5°	7196.9	7201.5	7283.4	7442.3	7732.0	8029.3	8033.1	8015.2	7538.3	6621.2	5491.5
15°	7013.4	7031.3	7061.4	7164.0	7438.6	7914.5	8255.1	8280.4	8015.2	7036.9	5645.7
17.5°	7133.8	7159.2	7133.8	7146.1	7305.0	7733.1	8293.7	8358.6	8431.9	7448.0	5791.5
20°	7460.2	7483.8	7438.6	7388.8	7419.8	7680.3	8266.4	8353.8	8758.3	7813.0	5913.8
22.5°	7900.5	7909.9	7841.2	7759.3	7736.8	7859.1	8288.9	8379.3	9019.8	8143.1	5991.0
25°	8384.9	8393.3	8307.7	8213.6	8160.1	8209.9	8474.3	8542.0	9250.3	8458.3	6035.1
27.5°	8912.6	8920.1	8812.9	8697.2	8635.1	8636.9	8779.9	8852.4	9495.8	8817.6	6070.9
30°	9470.4	9466.7	9367.8	9207.0	9128.0	9126.1	9220.2	9293.6	9851.3	9278.5	6119.8
32.5°	10096.9	10089.3	9949.2	9749.8	9660.4	9673.6	9757.3	9799.6	10292.5	9769.5	6207.3
35°	10921.8	10900.1	10688.5	10441.2	10276.6	10271.8	10342.3	10376.2	10855.0	10364.0	6353.1
37.5°	11992.3	11972.5	11685.6	11326.3	11094.9	11008.4	11092.0	11135.3	11657.4	11126.9	6587.3
40°	13047.6	13027.9	12857.6	12528.4	12171.9	11964.1	12029.9	12075.9	12659.2	12052.5	6882.6
42.5°	13775.7	13792.7	13851.9	13879.1	13545.3	13108.8	13138.9	13186.9	13711.7	13042.0	7220.3
45°	13967.6	14004.2	14339.1	14996.6	15121.7	14781.2	14466.1	14492.5	14781.2	14031.5	7558.0
47.5°	13391.0	13458.7	14104.9	15327.8	16386.9	16627.8	16031.4	15996.5	15807.5	14832.0	7797.9
50°	12080.7	12142.7	12979.9	14788.8	16770.7	18390.5	17907.0	17804.5	16707.7	15310.8	7882.6
52.5°	10184.3	10259.6	10939.6	13091.9	16047.4	19176.8	19682.9	19597.3	17368.1	15348.5	7896.7
55°	7192.1	7283.4	8003.0	10033.8	13755.0	18551.3	20312.2	20286.9	17916.5	15248.8	7926.8
57.5°	4042.0	4107.8	4883.8	6432.1	10074.3	16158.3	19654.7	19823.1	18247.5	15075.7	7971.9
60°	1794.7	1812.6	2214.3	3201.9	5897.8	12348.8	17772.5	18056.6	17963.4	14844.3	8048.1
62.5°	995.2	980.2	980.2	1331.0	2563.2	7644.6	14492.5	14961.9	16751.0	14570.5	8051.9
65°	779.8	765.6	725.2	730.9	976.4	3392.9	10035.7	10870.0	14448.3	13768.2	7781.0
67.5°	661.3	649.0	608.6	592.7	606.7	1119.3	5514.0	6380.4	10963.2	11682.8	6739.7
70°	558.7	550.3	529.6	509.8	474.1	553.1	2109.9	2698.7	6755.7	7771.6	4600.6
72.5°	449.7	445.8	453.4	436.4	393.2	368.7	721.5	873.9	3034.5	3468.2	1895.4
75°	387.5	385.7	389.4	372.5	323.6	256.8	366.8	400.8	856.0	848.5	383.8
77.5°	252.1	254.9	322.6	315.1	278.4	171.2	190.0	205.0	259.6	194.7	116.6
80°	160.9	158.9	163.7	261.5	250.2	130.8	95.0	99.7	125.1	95.9	56.5
82.5°	97.8	95.9	107.2	122.3	126.0	91.2	58.3	59.2	78.1	62.0	30.1
85°	8.5	11.3	64.9	60.2	43.2	28.2	28.2	30.1	41.4	36.7	17.0
87.5°	0.0	0.0	11.3	17.0	9.4	10.3	10.3	11.3	16.0	16.0	8.5
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°	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1
2.5°	4882.0	4784.1	4586.6	4396.5	4235.7	4080.6	3903.7	3728.7	3646.9	3613.9	3580.1
5°	4890.4	4689.1	4281.8	3871.7	3446.5	3063.7	2737.3	2402.4	2235.0	2161.6	2127.7
7.5°	4901.7	4595.0	3936.6	3248.0	2563.2	2044.0	1590.6	1299.0	1173.0	1153.3	1104.3
10°	4903.6	4481.2	3535.9	2559.5	1718.5	1232.3	948.1	797.7	742.2	732.8	716.7
12.5°	4907.3	4346.7	3091.0	1895.4	1145.7	824.0	685.7	635.9	620.8	619.9	619.9
15°	4918.6	4205.6	2629.1	1365.8	823.0	652.8	602.0	582.2	576.6	579.4	578.5
17.5°	4918.6	4039.1	2175.7	1017.8	665.0	587.0	558.7	545.6	543.7	546.5	547.5
20°	4882.9	3836.9	1760.0	792.0	589.8	544.7	519.2	507.0	502.3	504.2	505.1
22.5°	4797.3	3588.5	1421.4	655.6	539.9	506.1	478.8	460.0	452.5	453.4	453.4
25°	4663.7	3294.1	1111.8	567.2	499.5	464.7	432.7	411.1	406.3	405.4	407.3
27.5°	4492.5	2968.7	885.2	499.5	451.5	418.5	386.6	368.7	365.0	365.9	366.8
30°	4324.2	2631.0	697.9	442.1	397.9	366.8	342.4	334.0	334.0	336.8	337.7
32.5°	4169.9	2306.4	552.1	392.3	349.9	321.7	307.6	306.7	311.3	313.3	314.2
35°	4037.2	2006.4	457.1	353.7	312.3	287.8	283.1	286.9	292.5	296.3	297.3
37.5°	3943.1	1738.3	399.7	321.7	283.1	263.3	262.4	270.0	277.5	286.0	287.8
40°	3903.7	1511.6	360.2	293.4	259.6	244.5	241.7	252.1	266.2	278.4	280.3
42.5°	3870.8	1326.3	326.4	266.2	240.8	219.2	218.3	231.4	248.4	260.6	263.3
45°	3842.5	1177.7	295.4	237.1	216.3	188.2	191.0	207.9	221.1	234.2	237.1
47.5°	3784.2	1055.4	261.5	206.0	178.8	160.9	166.5	181.6	191.9	211.6	214.4
50°	3679.8	955.7	226.7	168.3	145.8	139.2	147.7	158.0	171.2	188.2	190.0
52.5°	3609.3	880.4	196.6	141.1	120.4	122.3	130.8	134.5	142.1	148.6	146.7
55°	3568.8	839.0	172.1	122.3	102.6	108.2	110.0	105.4	101.6	95.0	92.2
57.5°	3564.1	801.4	153.3	106.3	90.3	93.2	86.5	70.5	57.4	49.8	48.0
60°	3556.6	755.3	138.2	89.3	79.9	76.2	62.0	38.6	27.3	25.4	25.4
62.5°	3474.8	683.8	127.0	75.3	67.7	57.4	35.8	17.9	15.1	16.0	16.0
65°	3214.2	584.2	115.7	61.1	53.7	41.4	17.9	10.3	5.7	6.6	6.6
67.5°	2732.6	465.6	103.5	47.0	40.4	26.4	10.3	4.7	0.0	0.0	0.0
70°	1829.6	288.8	87.5	32.9	26.4	16.0	7.5	0.9	0.0	0.0	0.0
72.5°	701.7	156.1	70.5	19.7	17.0	11.3	4.7	0.0	0.0	0.0	0.0
75°	158.0	102.6	48.9	14.1	12.2	7.5	1.9	0.0	0.0	0.0	0.0
77.5°	60.2	74.3	28.2	9.4	8.5	4.7	0.0	0.0	0.0	0.0	0.0
80°	29.2	44.2	13.1	5.7	4.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	17.0	5.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	8.5	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.8	0.9	0.9	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)