

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: P383161

Luminaire Tested: **GLEON-SA5A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383161
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-SA5A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 17761.8 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

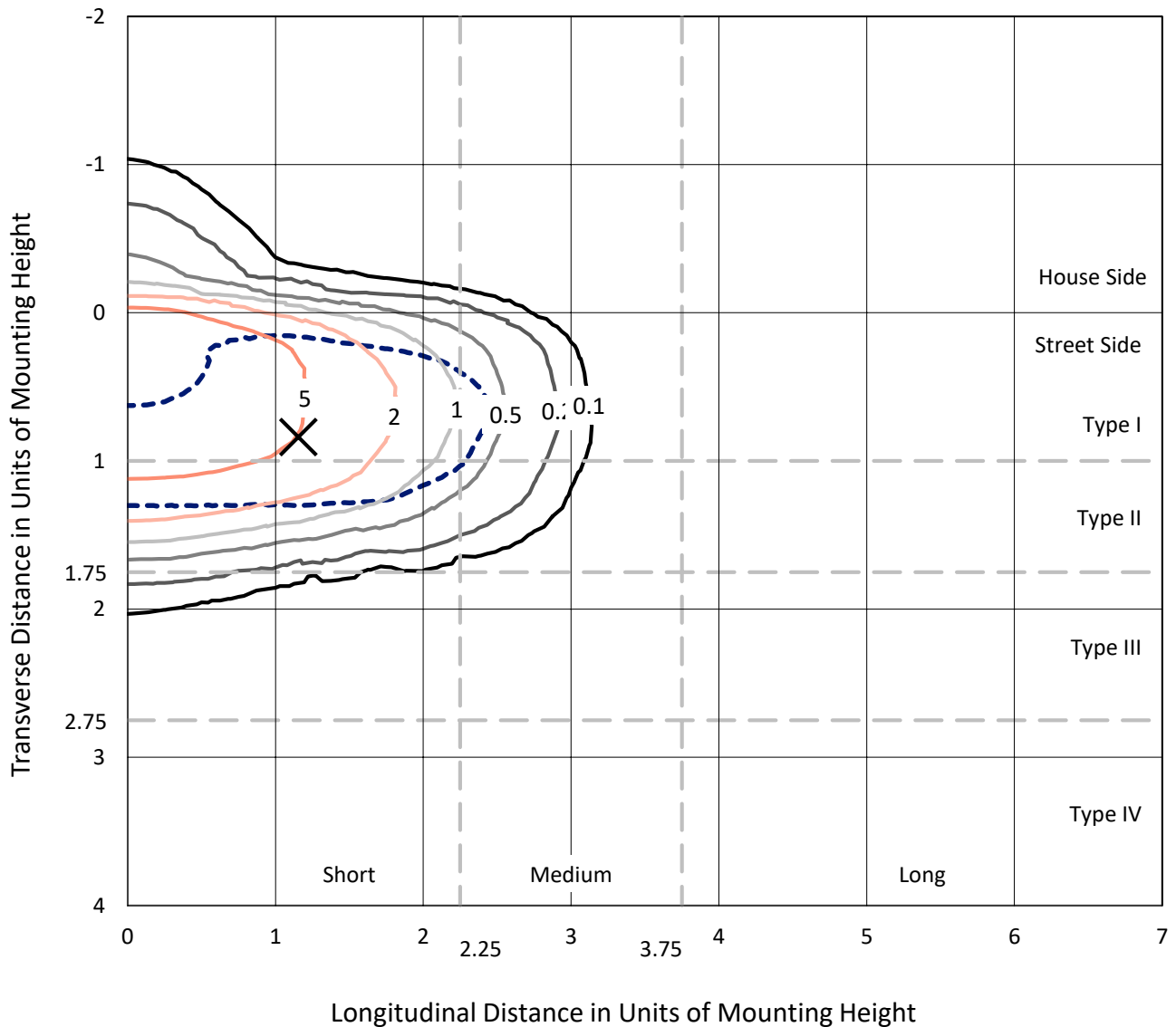
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

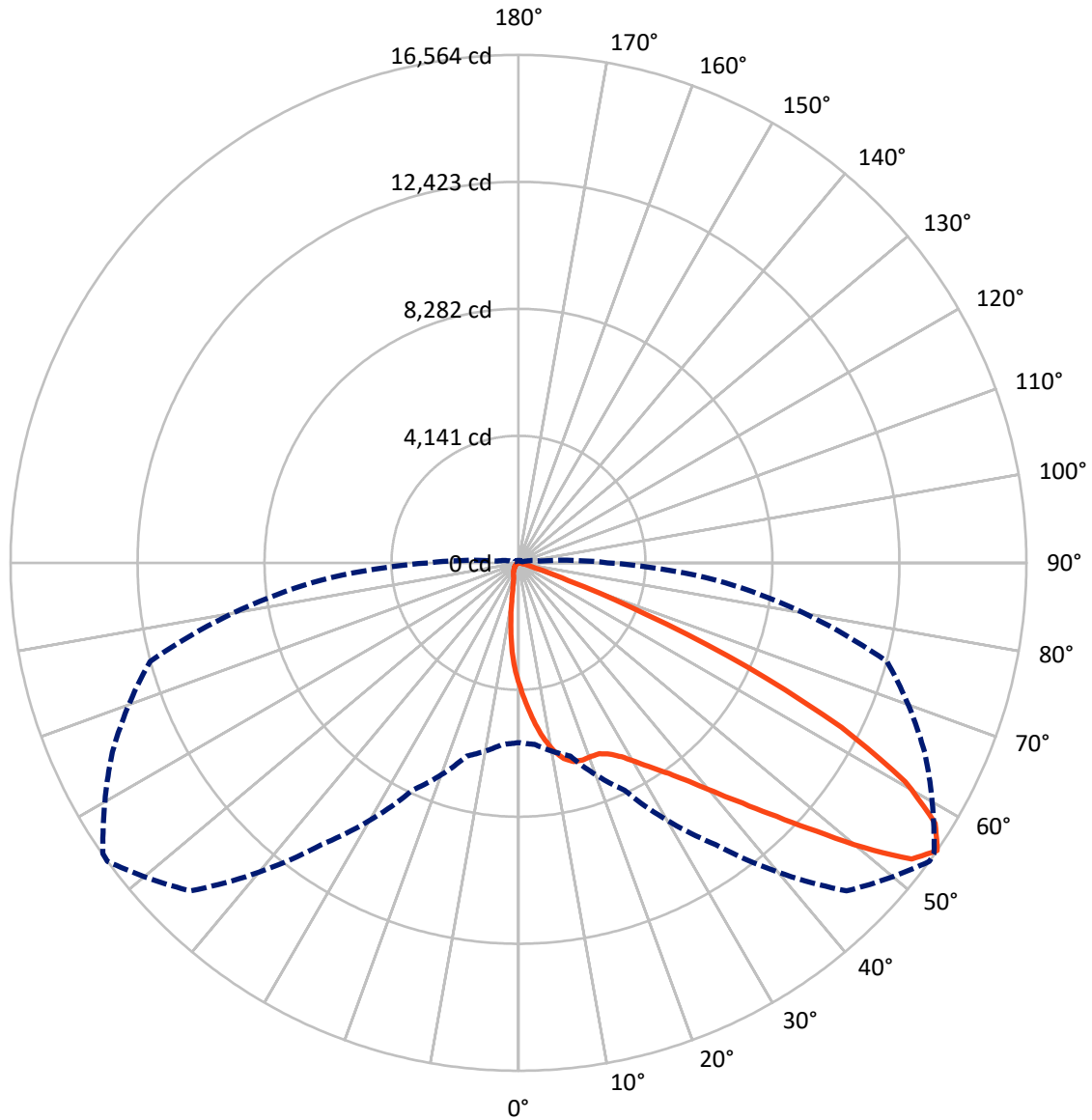
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	886.2	0.0	886.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16875.6	0.0	16875.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	17761.8	0.0	17761.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	2.1
10°-20°	1004.7	5.7
20°-30°	1715.3	9.7
30°-40°	2752.7	15.5
40°-50°	4398.9	24.8
50°-60°	4713.5	26.5
60°-70°	2420.0	13.6
70°-80°	366.6	2.1
80°-90°	23.9	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°	17761.8	100.0
0°-180°	17761.8	100.0

Coefficient of Utilization

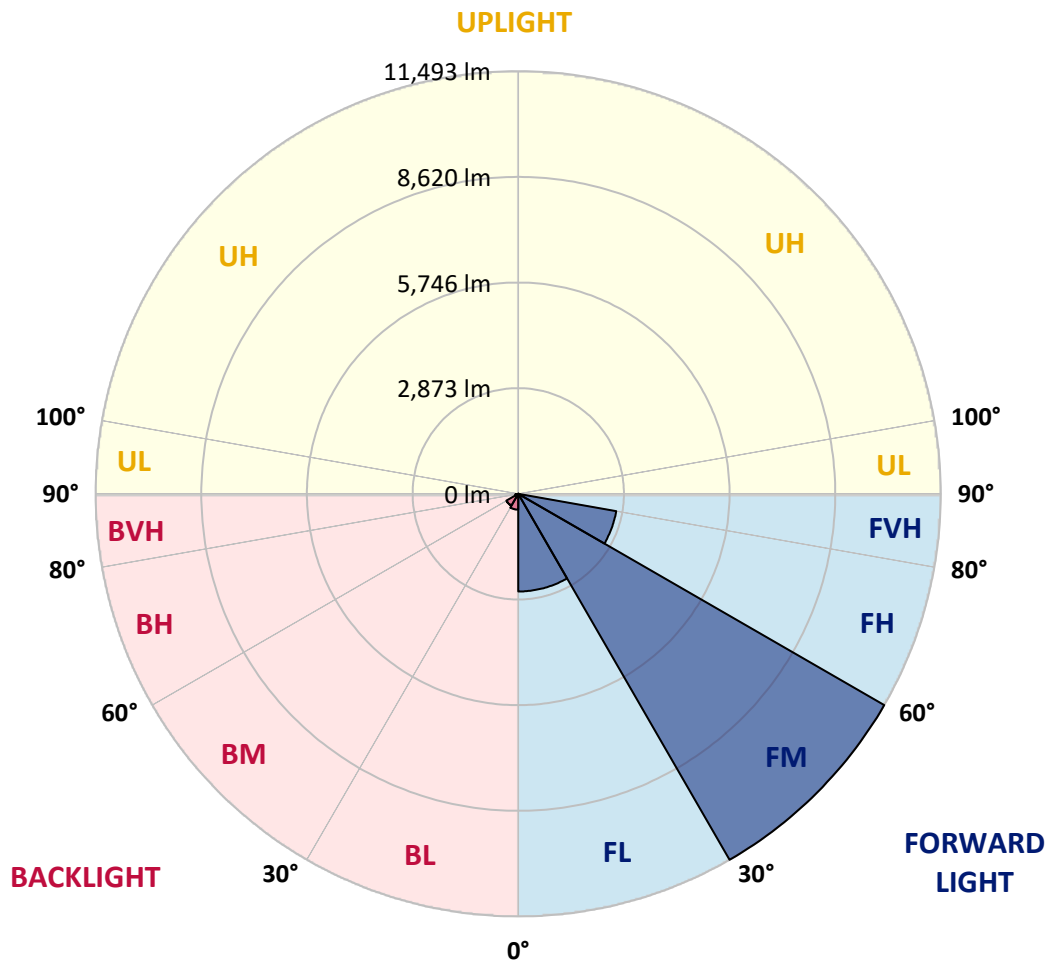


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.1	14.9			
FM (30°-60°)	11492.7	64.7			
FH (60°-80°)	2705.0	15.2			G2/5000
FVH (80°-90°)	22.9	0.1			G1/100
BL (0°-30°)	431.2	2.4	B1/500		
BM (30°-60°)	372.4	2.1	B1/1000		
BH (60°-80°)	81.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	4992.0	4917.5	4919.9	4886.2	4762.6	4665.9	4565.5	4541.8	4385.3	4221.1	4063.0
5°	5854.9	5800.5	5787.4	5722.2	5550.3	5368.6	5173.8	5128.5	4822.4	4486.5	4155.9
7.5°	6298.3	6299.0	6288.3	6264.6	6157.2	5980.7	5742.9	5695.4	5278.9	4774.9	4252.5
10°	6169.4	6198.5	6258.4	6337.4	6419.5	6397.2	6218.5	6175.5	5723.0	5080.2	4359.9
12.5°	5868.7	5872.6	5939.3	6068.9	6305.2	6547.6	6550.6	6536.0	6147.2	5399.2	4478.0
15°	5719.1	5733.7	5758.3	5841.8	6065.9	6453.9	6731.6	6752.3	6536.0	5738.3	4603.9
17.5°	5817.3	5838.0	5817.3	5827.3	5957.0	6305.9	6763.1	6816.0	6875.8	6073.5	4722.8
20°	6083.5	6102.7	6065.9	6025.2	6050.5	6263.0	6740.9	6812.2	7142.0	6371.1	4822.4
22.5°	6442.5	6450.1	6394.1	6327.4	6309.0	6408.8	6759.3	6832.9	7355.2	6640.4	4885.3
25°	6837.5	6844.5	6774.6	6697.9	6654.1	6694.8	6910.4	6965.6	7543.2	6897.4	4921.4
27.5°	7267.8	7274.0	7186.5	7092.2	7041.6	7043.1	7159.7	7218.7	7743.4	7190.3	4950.5
30°	7722.7	7719.6	7639.1	7507.9	7443.4	7441.9	7518.6	7578.5	8033.4	7566.2	4990.5
32.5°	8233.6	8227.4	8113.1	7950.5	7877.6	7888.3	7956.6	7991.2	8393.1	7966.6	5061.8
35°	8906.2	8888.6	8716.0	8514.3	8380.0	8376.2	8433.8	8461.3	8851.8	8451.4	5180.7
37.5°	9779.1	9763.1	9529.1	9236.1	9047.4	8976.9	9045.0	9080.4	9506.1	9073.5	5371.7
40°	10639.8	10623.6	10484.8	10216.4	9925.6	9756.1	9809.8	9847.4	10323.0	9828.2	5612.5
42.5°	11233.4	11247.3	11295.6	11317.8	11045.5	10689.6	10714.2	10753.3	11181.4	10635.2	5887.9
45°	11389.9	11419.8	11693.0	12229.1	12331.2	12053.5	11796.5	11818.0	12053.5	11442.1	6163.3
47.5°	10919.8	10975.0	11501.9	12499.1	13362.9	13559.1	13072.9	13044.5	12890.3	12094.8	6358.8
50°	9851.2	9901.9	10584.5	12059.6	13675.8	14996.6	14602.4	14518.7	13624.3	12485.3	6427.9
52.5°	8304.8	8366.2	8920.8	10675.8	13085.9	15637.9	16050.6	15980.8	14162.9	12516.0	6439.4
55°	5864.8	5939.3	6526.0	8182.2	11216.6	15127.8	16563.8	16543.0	14610.0	12434.7	6463.9
57.5°	3296.0	3349.8	3982.6	5245.1	8215.1	13176.5	16027.6	16164.9	14880.1	12293.5	6500.8
60°	1463.6	1478.1	1805.6	2611.0	4809.4	10069.8	14492.6	14724.3	14648.4	12104.9	6562.9
62.5°	811.6	799.3	799.3	1085.3	2090.2	6233.8	11818.0	12200.8	13659.7	11881.6	6566.0
65°	635.9	624.4	591.4	596.0	796.2	2766.8	8183.6	8864.0	11781.9	11227.4	6345.1
67.5°	539.3	529.3	496.3	483.3	494.7	912.8	4496.5	5202.9	8940.0	9526.8	5495.9
70°	455.6	448.7	431.9	415.7	386.6	451.1	1720.5	2200.7	5509.0	6337.4	3751.6
72.5°	366.7	363.6	369.7	355.9	320.6	300.7	588.4	712.6	2474.5	2828.1	1545.6
75°	316.0	314.5	317.6	303.8	263.9	209.4	299.1	326.8	698.0	691.9	313.0
77.5°	205.6	207.8	263.1	256.9	227.0	139.6	154.9	167.2	211.7	158.7	95.1
80°	131.2	129.7	133.5	213.2	204.0	106.7	77.5	81.3	102.0	78.2	46.0
82.5°	79.7	78.2	87.5	99.7	102.7	74.4	47.6	48.3	63.6	50.6	24.5
85°	6.9	9.2	52.9	49.1	35.3	23.0	23.0	24.5	33.7	29.9	13.8
87.5°	0.0	0.0	9.2	13.8	7.6	8.5	8.5	9.2	13.0	13.0	6.9
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°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	3981.0	3901.2	3740.2	3585.2	3454.0	3327.5	3183.3	3040.6	2973.9	2947.0	2919.4
5°	3987.9	3823.7	3491.6	3157.2	2810.5	2498.3	2232.1	1959.0	1822.5	1762.7	1735.1
7.5°	3997.1	3747.1	3210.1	2648.7	2090.2	1666.8	1297.1	1059.3	956.5	940.4	900.5
10°	3998.7	3654.3	2883.3	2087.1	1401.4	1004.9	773.2	650.5	605.2	597.5	584.5
12.5°	4001.7	3544.5	2520.5	1545.6	934.2	671.9	559.2	518.5	506.3	505.5	505.5
15°	4010.9	3429.5	2144.0	1113.8	671.2	532.4	490.9	474.8	470.2	472.5	471.7
17.5°	4010.9	3293.8	1774.2	829.9	542.3	478.6	455.6	444.9	443.3	445.7	446.4
20°	3981.8	3128.8	1435.1	645.8	481.0	444.2	423.4	413.4	409.6	411.2	411.9
22.5°	3911.9	2926.3	1159.0	534.6	440.2	412.7	390.4	375.1	369.0	369.7	369.7
25°	3803.0	2686.2	906.7	462.5	407.3	379.0	352.9	335.2	331.4	330.6	332.1
27.5°	3663.4	2420.8	721.8	407.3	368.1	341.3	315.2	300.7	297.6	298.4	299.1
30°	3526.1	2145.4	569.2	360.5	324.5	299.1	279.2	272.3	272.3	274.6	275.4
32.5°	3400.3	1880.8	450.2	319.9	285.3	262.3	250.9	250.0	253.9	255.4	256.2
35°	3292.2	1636.1	372.8	288.4	254.7	234.7	230.8	233.9	238.6	241.6	242.4
37.5°	3215.5	1417.5	326.0	262.3	230.8	214.8	214.0	220.1	226.3	233.2	234.7
40°	3183.3	1232.6	293.8	239.3	211.7	199.4	197.1	205.6	217.1	227.0	228.6
42.5°	3156.5	1081.5	266.1	217.1	196.4	178.8	177.9	188.7	202.5	212.5	214.8
45°	3133.4	960.3	240.9	193.3	176.4	153.4	155.8	169.5	180.3	191.0	193.3
47.5°	3085.8	860.7	213.2	168.0	145.7	131.2	135.7	148.0	156.5	172.6	174.9
50°	3000.7	779.3	184.8	137.3	118.9	113.6	120.4	128.8	139.6	153.4	154.9
52.5°	2943.2	717.9	160.3	115.0	98.2	99.7	106.7	109.6	115.8	121.2	119.7
55°	2910.2	684.2	140.4	99.7	83.7	88.2	89.7	85.9	82.8	77.5	75.2
57.5°	2906.3	653.6	125.0	86.6	73.6	75.9	70.6	57.6	46.8	40.6	39.1
60°	2900.2	615.9	112.7	72.8	65.2	62.1	50.6	31.5	22.3	20.7	20.7
62.5°	2833.5	557.6	103.6	61.4	55.2	46.8	29.2	14.5	12.3	13.0	13.0
65°	2621.0	476.3	94.4	49.8	43.7	33.7	14.5	8.5	4.6	5.4	5.4
67.5°	2228.3	379.7	84.4	38.4	33.0	21.5	8.5	3.8	0.0	0.0	0.0
70°	1491.9	235.5	71.4	26.8	21.5	13.0	6.1	0.7	0.0	0.0	0.0
72.5°	572.2	127.3	57.6	16.1	13.8	9.2	3.8	0.0	0.0	0.0	0.0
75°	128.8	83.7	39.9	11.6	10.0	6.1	1.5	0.0	0.0	0.0	0.0
77.5°	49.1	60.6	23.0	7.6	6.9	3.8	0.0	0.0	0.0	0.0	0.0
80°	23.8	36.1	10.7	4.6	3.8	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	13.8	4.6	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	6.9	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.3	0.7	0.7	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)