

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: P383217

Luminaire Tested: **GLEON-SA5C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383217
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-SA5C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 26958 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

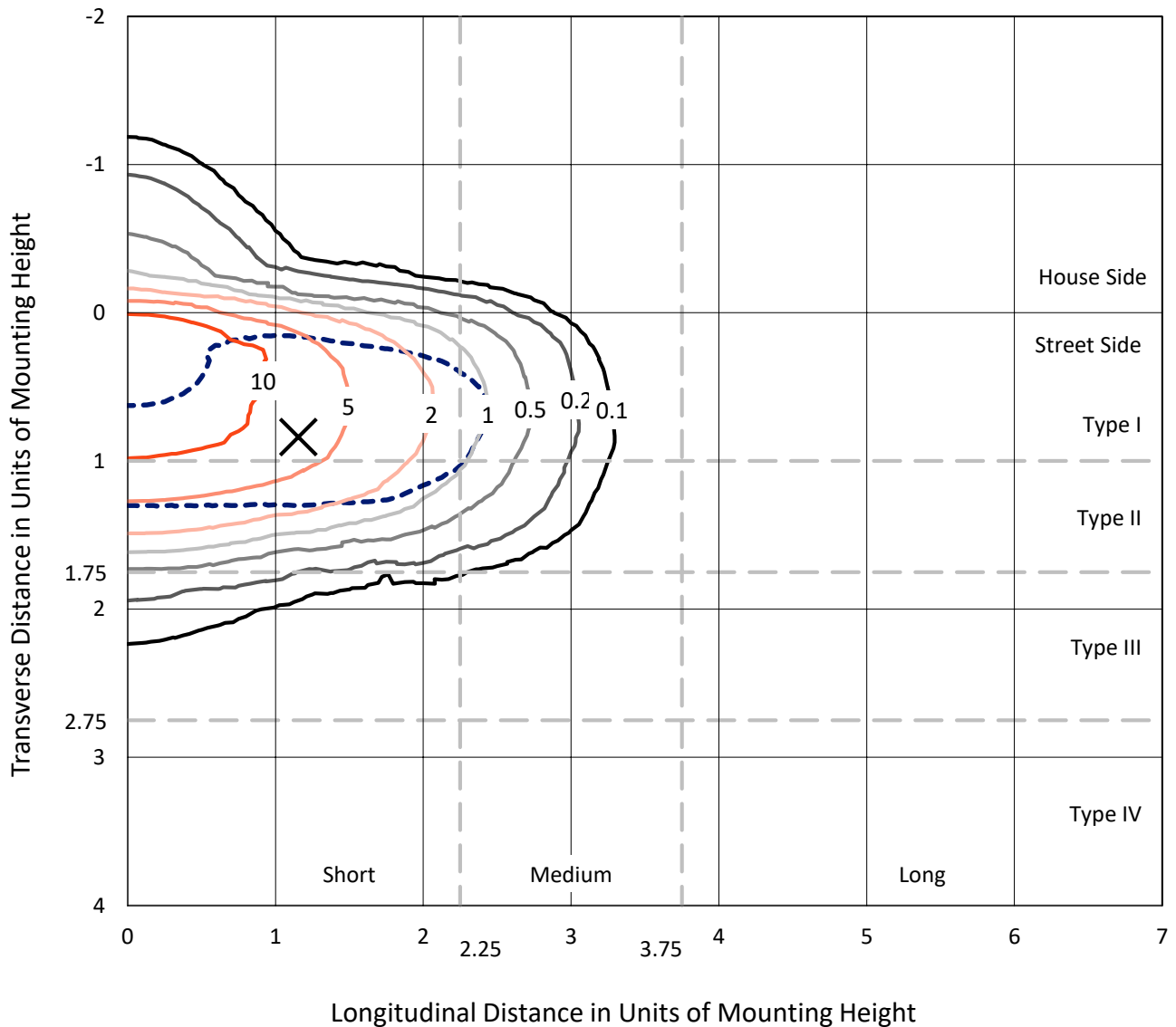
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

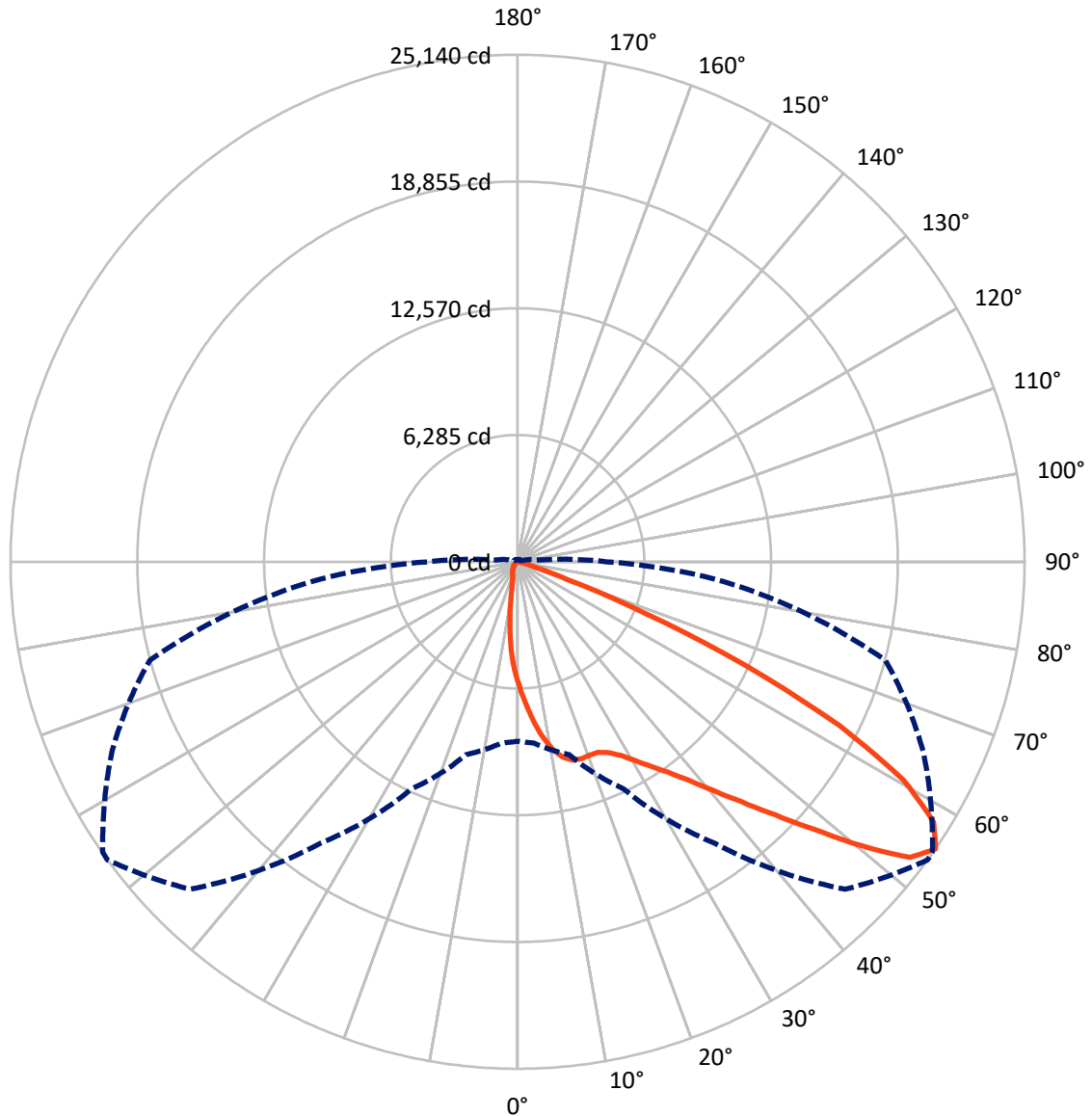
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	1345.0	0.0	1345.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25613.1	0.0	25613.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	26958.0	0.0	26958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	2.1
10°-20°	1524.8	5.7
20°-30°	2603.4	9.7
30°-40°	4177.9	15.5
40°-50°	6676.4	24.8
50°-60°	7153.9	26.5
60°-70°	3673.0	13.6
70°-80°	556.4	2.1
80°-90°	36.2	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°	26958.0	100.0
0°-180°	26958.0	100.0

Coefficient of Utilization

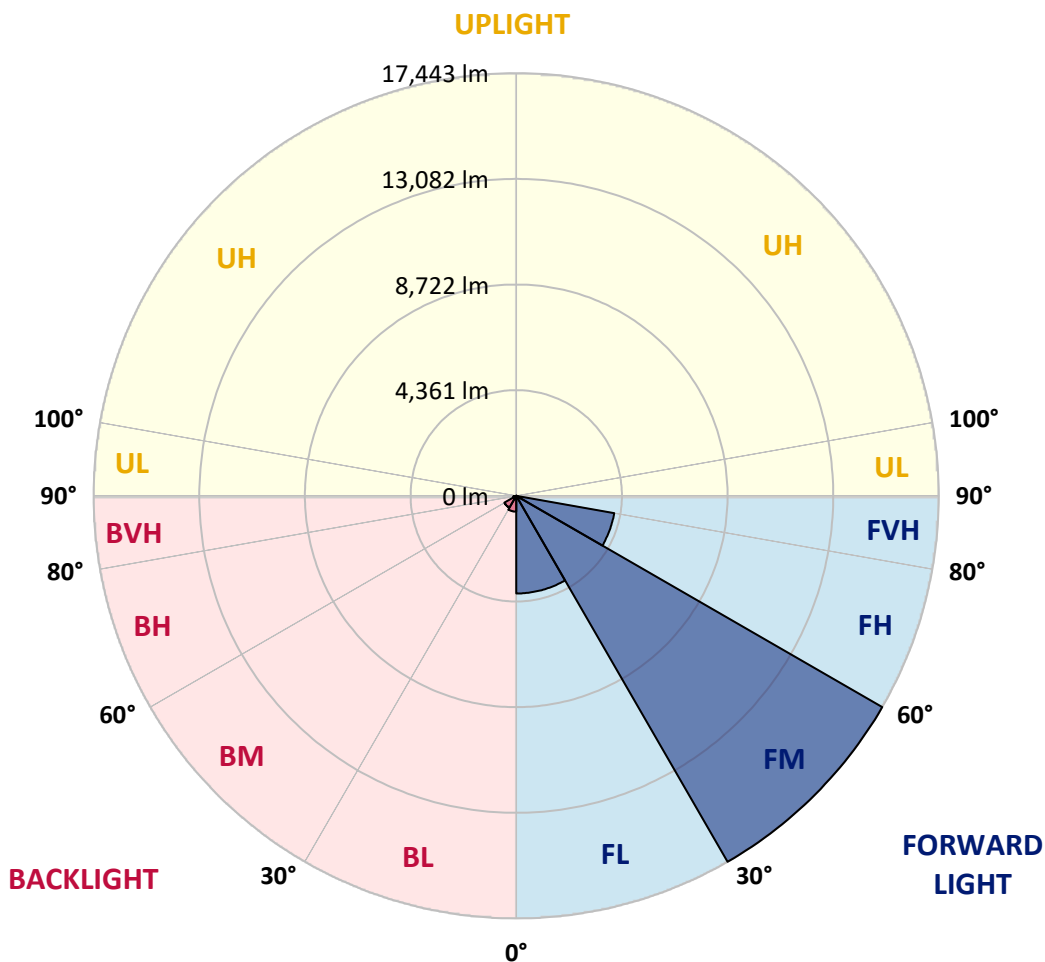


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4029.8	14.9			
FM (30°-60°)	17443.1	64.7			
FH (60°-80°)	4105.5	15.2			G2/5000
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	654.4	2.4	B2/1000		
BM (30°-60°)	565.2	2.1	B1/1000		
BH (60°-80°)	123.9	0.5	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5
2.5°	7576.6	7463.7	7467.2	7416.0	7228.5	7081.8	6929.3	6893.2	6655.7	6406.5	6166.8
5°	8886.3	8803.7	8783.8	8684.9	8424.2	8148.2	7852.5	7783.8	7319.3	6809.4	6307.6
7.5°	9559.3	9560.4	9544.1	9508.0	9345.0	9077.3	8716.3	8644.2	8012.0	7247.2	6454.3
10°	9363.6	9407.9	9498.7	9618.6	9743.1	9709.4	9438.2	9373.0	8686.0	7710.5	6617.2
12.5°	8907.3	8913.0	9014.4	9211.1	9569.7	9937.6	9942.2	9920.1	9329.9	8194.8	6796.6
15°	8680.3	8702.3	8739.6	8866.6	9206.5	9795.5	10217.0	10248.4	9920.1	8709.3	6987.5
17.5°	8829.3	8860.7	8829.3	8844.4	9041.1	9570.8	10264.7	10345.0	10435.8	9218.1	7168.0
20°	9233.2	9262.4	9206.5	9144.7	9183.2	9505.7	10231.0	10339.2	10839.9	9669.8	7319.3
22.5°	9778.1	9789.7	9704.8	9603.4	9575.5	9726.8	10258.9	10370.6	11163.5	10078.4	7414.7
25°	10377.6	10388.2	10282.1	10165.8	10099.4	10161.1	10488.2	10572.0	11448.7	10468.5	7469.5
27.5°	11030.7	11040.1	10907.4	10764.1	10687.4	10689.7	10866.6	10956.2	11752.6	10913.2	7513.8
30°	11721.1	11716.4	11594.2	11395.2	11297.3	11295.0	11411.5	11502.3	12192.7	11483.7	7574.2
32.5°	12496.5	12487.2	12313.7	12066.9	11956.3	11972.6	12076.2	12128.6	12738.6	12091.3	7682.6
35°	13517.5	13490.7	13228.7	12922.6	12718.9	12713.0	12800.3	12842.2	13434.9	12827.1	7863.0
37.5°	14842.3	14817.8	14462.8	14018.1	13731.7	13624.6	13728.2	13781.8	14427.9	13771.3	8152.9
40°	16148.6	16124.2	15913.4	15505.9	15064.7	14807.4	14888.9	14945.9	15667.8	14916.9	8518.4
42.5°	17049.6	17070.6	17143.9	17177.7	16764.4	16224.2	16261.5	16320.9	16970.5	16141.6	8936.3
45°	17287.2	17332.6	17747.0	18560.8	18715.6	18294.2	17904.2	17936.8	18294.2	17366.3	9354.3
47.5°	16573.5	16657.3	17457.1	18970.6	20281.5	20579.5	19841.4	19798.4	19564.4	18357.1	9651.2
50°	14951.8	15028.7	16064.7	18303.5	20756.5	22761.2	22162.8	22035.9	20678.5	18949.6	9756.0
52.5°	12604.8	12697.9	13539.6	16203.2	19861.2	23734.4	24360.8	24254.9	21495.7	18996.2	9773.4
55°	8901.4	9014.4	9905.0	12418.5	17024.0	22960.3	25139.7	25108.2	22174.5	18872.8	9810.7
57.5°	5002.6	5084.0	6044.5	7960.8	12468.6	19998.6	24325.9	24534.3	22584.3	18658.6	9866.6
60°	2221.3	2243.4	2740.5	3962.9	7299.5	15283.5	21996.4	22347.9	22232.7	18372.2	9960.9
62.5°	1231.7	1213.1	1213.1	1647.3	3172.5	9461.4	17936.8	18517.7	20732.0	18033.4	9965.5
65°	965.1	947.7	897.6	904.6	1208.4	4199.2	12420.8	13453.4	17882.1	17040.3	9630.2
67.5°	818.5	803.3	753.2	733.4	750.9	1385.4	6824.5	7896.7	13568.7	14459.3	8341.4
70°	691.5	681.1	655.4	631.0	586.8	684.5	2611.3	3340.1	8361.3	9618.6	5694.1
72.5°	556.5	551.8	561.2	540.2	486.6	456.4	893.0	1081.5	3755.7	4292.4	2345.8
75°	479.7	477.3	482.0	461.0	400.5	317.8	454.0	496.0	1059.4	1050.1	475.0
77.5°	312.0	315.5	399.4	390.0	344.6	211.9	235.1	253.8	321.3	241.0	144.4
80°	199.1	196.7	202.6	323.6	309.6	161.8	117.6	123.4	154.8	118.8	69.9
82.5°	121.1	118.8	132.7	151.4	156.0	112.9	72.2	73.3	96.6	76.9	37.3
85°	10.4	14.0	80.3	74.5	53.6	34.9	34.9	37.3	51.2	45.4	21.0
87.5°	0.0	0.0	14.0	21.0	11.6	12.8	12.8	14.0	19.7	19.7	10.4
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°	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5
2.5°	6042.2	5921.1	5676.7	5441.4	5242.4	5050.3	4831.4	4614.9	4513.6	4472.8	4430.9
5°	6052.6	5803.5	5299.4	4791.8	4265.6	3791.8	3387.9	2973.3	2766.1	2675.3	2633.4
7.5°	6066.6	5687.1	4872.2	4020.0	3172.5	2529.8	1968.6	1607.8	1451.7	1427.3	1366.8
10°	6068.9	5546.2	4376.2	3167.8	2127.0	1525.1	1173.5	987.3	918.5	907.0	887.1
12.5°	6073.6	5379.8	3825.6	2345.8	1418.0	1019.9	848.7	787.0	768.3	767.2	767.2
15°	6087.6	5205.1	3253.9	1690.4	1018.6	807.9	745.1	720.6	713.7	717.1	716.0
17.5°	6087.6	4999.1	2692.8	1259.6	823.1	726.4	691.5	675.3	672.9	676.4	677.6
20°	6043.3	4748.8	2178.2	980.3	730.0	674.1	642.7	627.5	621.7	624.0	625.2
22.5°	5937.4	4441.4	1759.1	811.5	668.3	626.4	592.6	569.3	560.0	561.2	561.2
25°	5772.1	4077.0	1376.1	702.0	618.2	575.1	535.5	508.7	502.9	501.7	504.1
27.5°	5560.2	3674.2	1095.5	618.2	558.8	518.0	478.4	456.4	451.7	452.9	454.0
30°	5351.8	3256.2	863.8	547.2	492.4	454.0	423.8	413.3	413.3	416.8	418.0
32.5°	5160.9	2854.6	683.4	485.4	433.1	398.1	380.7	379.5	385.4	387.7	388.8
35°	4996.7	2483.2	565.8	437.7	386.5	356.2	350.4	355.1	362.1	366.8	367.9
37.5°	4880.3	2151.4	494.7	398.1	350.4	325.9	324.8	334.1	343.5	353.9	356.2
40°	4831.4	1870.8	445.9	363.2	321.3	302.7	299.2	312.0	329.5	344.6	346.9
42.5°	4790.7	1641.5	404.0	329.5	298.0	271.3	270.1	286.4	307.3	322.5	325.9
45°	4755.7	1457.6	365.5	293.3	267.7	232.8	236.3	257.3	273.6	289.9	293.3
47.5°	4683.5	1306.2	323.6	255.0	221.2	199.1	206.1	224.7	237.5	262.0	265.4
50°	4554.3	1182.8	280.6	208.4	180.4	172.3	182.8	195.6	211.9	232.8	235.1
52.5°	4467.1	1089.7	243.3	174.7	149.0	151.4	161.8	166.5	175.8	184.0	181.7
55°	4416.9	1038.5	213.0	151.4	126.9	133.9	136.2	130.4	125.8	117.6	114.1
57.5°	4411.2	991.9	189.8	131.5	111.8	115.2	107.1	87.3	71.0	61.7	59.3
60°	4401.8	934.8	171.1	110.6	98.9	94.3	76.9	47.7	33.7	31.4	31.4
62.5°	4300.6	846.4	157.2	93.2	83.8	71.0	44.2	22.1	18.6	19.7	19.7
65°	3978.1	723.0	143.2	75.6	66.3	51.2	22.1	12.8	7.0	8.1	8.1
67.5°	3382.0	576.3	128.1	58.2	50.0	32.6	12.8	5.8	0.0	0.0	0.0
70°	2264.4	357.4	108.2	40.7	32.6	19.7	9.3	1.1	0.0	0.0	0.0
72.5°	868.5	193.3	87.3	24.4	21.0	14.0	5.8	0.0	0.0	0.0	0.0
75°	195.6	126.9	60.6	17.4	15.1	9.3	2.3	0.0	0.0	0.0	0.0
77.5°	74.5	91.9	34.9	11.6	10.4	5.8	0.0	0.0	0.0	0.0	0.0
80°	36.1	54.7	16.3	7.0	5.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	18.6	21.0	7.0	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	10.4	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	3.4	1.1	1.1	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)