

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: P383329

Luminaire Tested: **GLEON-SA6C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383329
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-SA6C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32260.4 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

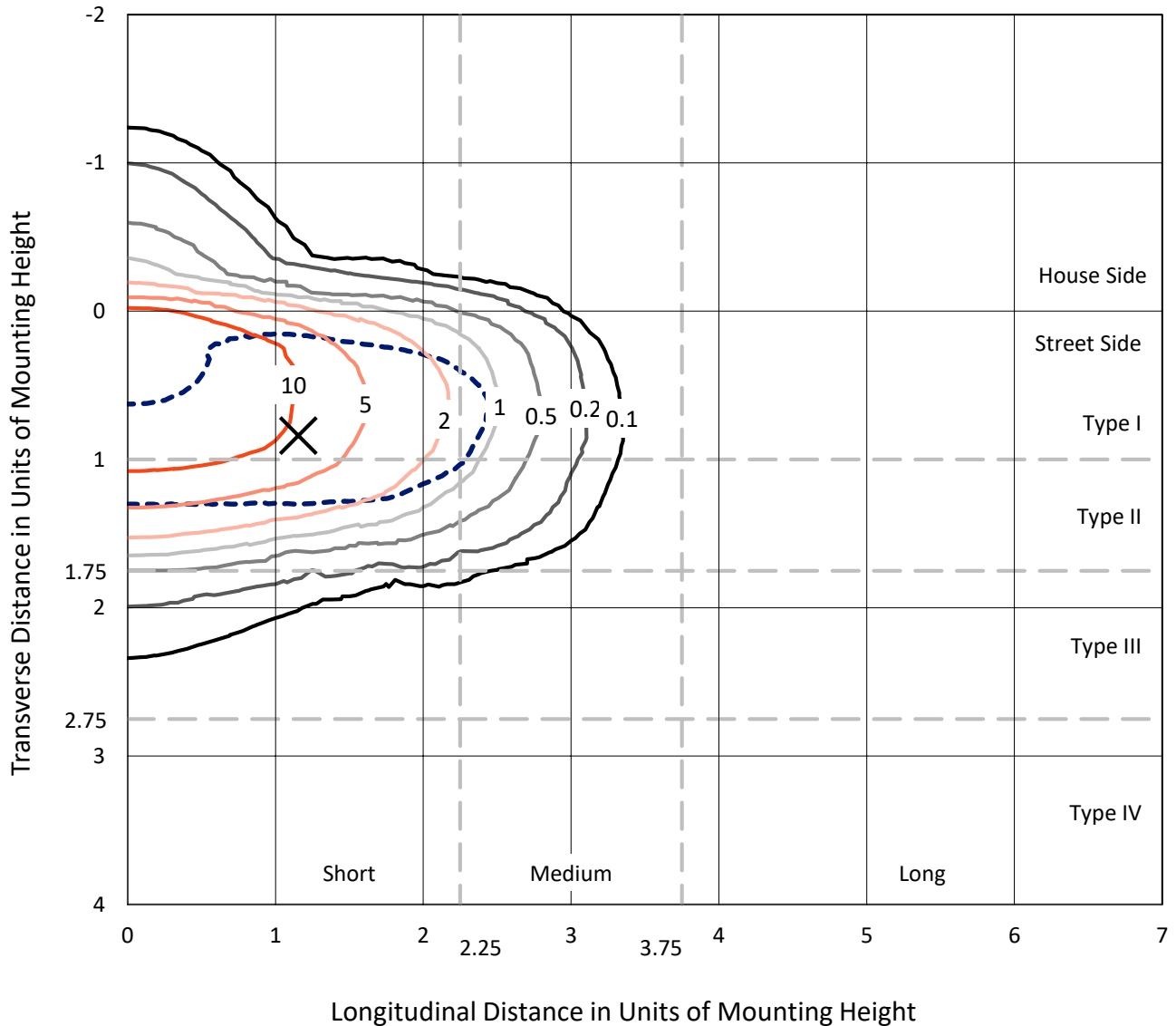
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

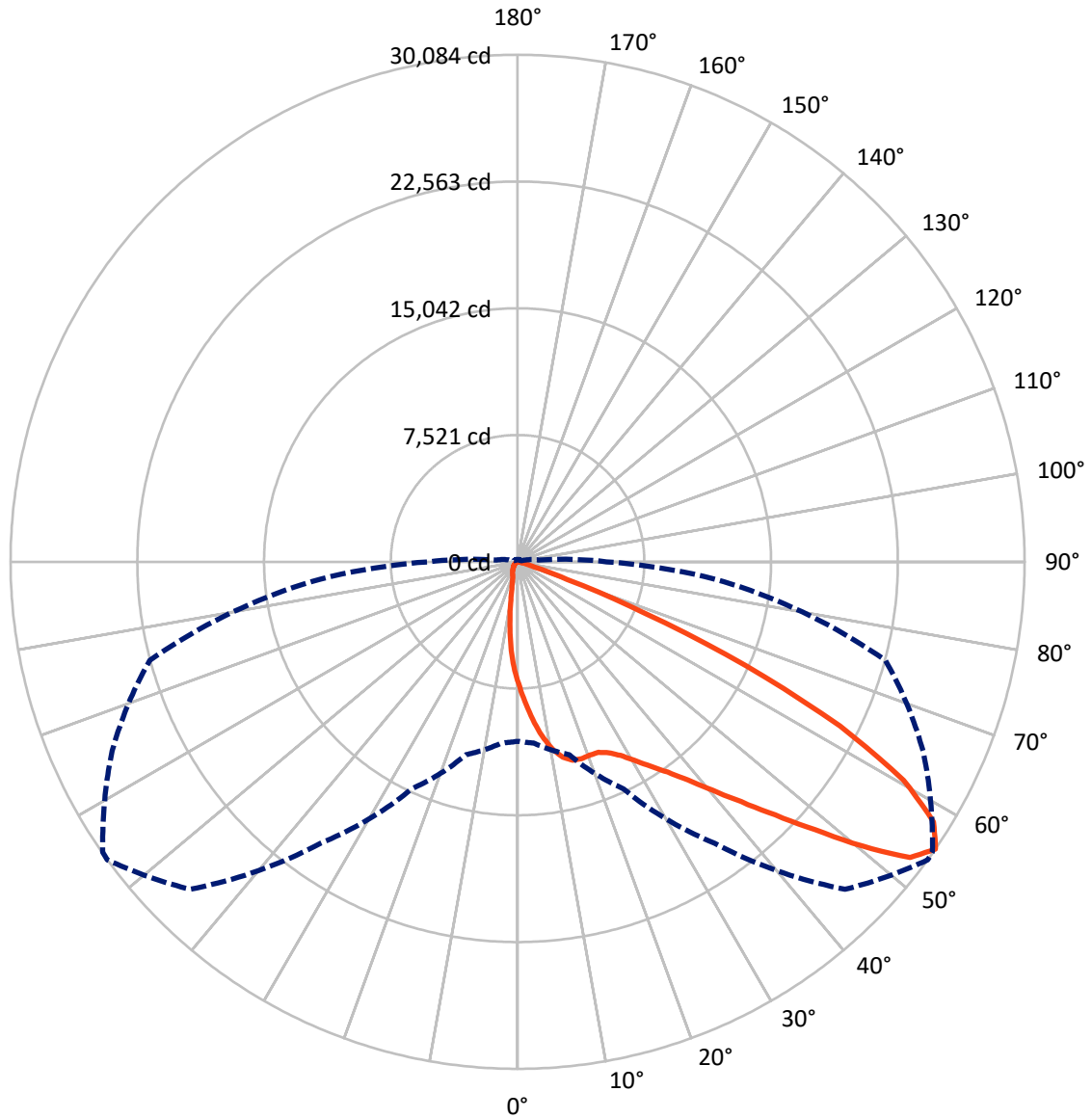
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	1609.6	0.0	1609.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30650.9	0.0	30650.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	32260.4	0.0	32260.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.3	2.1
10°-20°	1824.7	5.7
20°-30°	3115.4	9.7
30°-40°	4999.7	15.5
40°-50°	7989.6	24.8
50°-60°	8561.0	26.5
60°-70°	4395.5	13.6
70°-80°	665.8	2.1
80°-90°	43.4	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°	32260.4	100.0
0°-180°	32260.4	100.0

Coefficient of Utilization

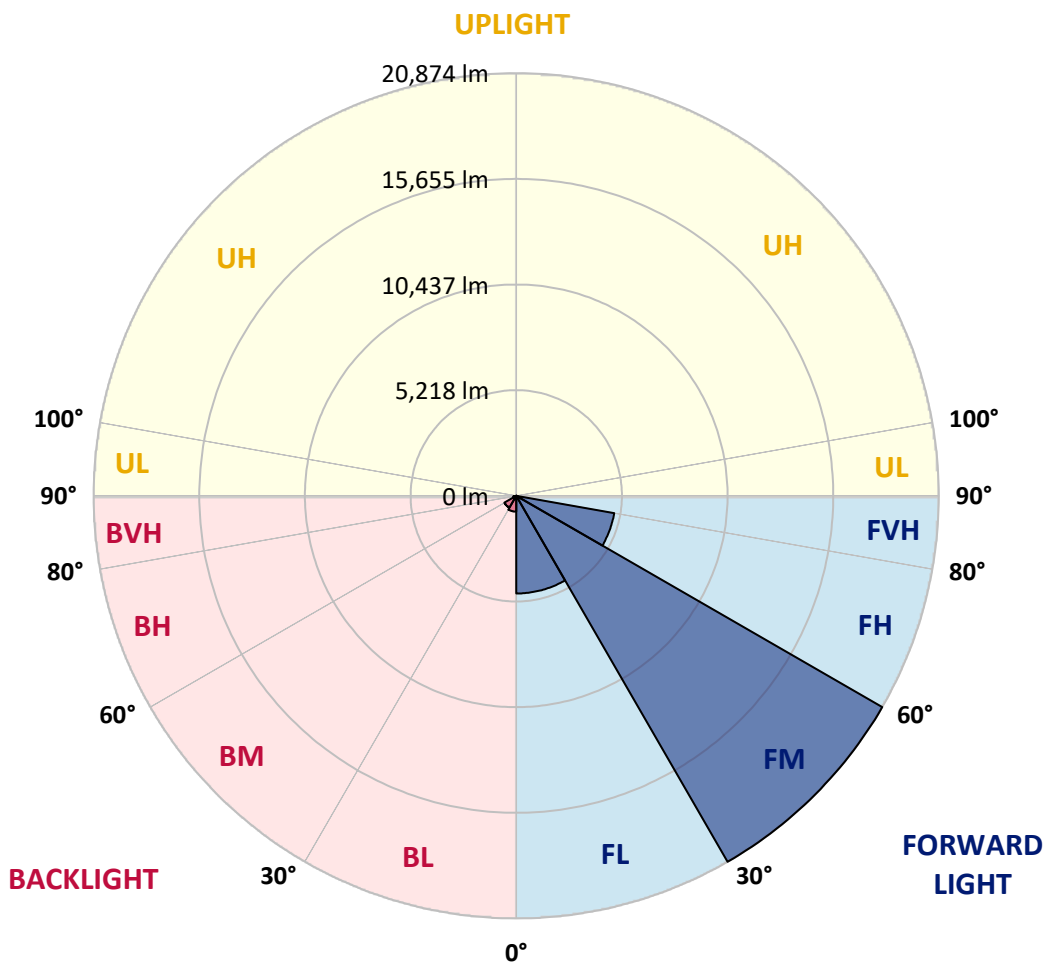


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4822.4	14.9			
FM (30°-60°)	20873.9	64.7			
FH (60°-80°)	4913.0	15.2			G2/5000
FVH (80°-90°)	41.6	0.1			G1/100
BL (0°-30°)	783.1	2.4	B2/1000		
BM (30°-60°)	676.4	2.1	B1/1000		
BH (60°-80°)	148.3	0.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1
2.5°	9066.8	8931.7	8935.9	8874.6	8650.3	8474.8	8292.3	8249.0	7964.8	7666.6	7379.7
5°	10634.2	10535.2	10511.6	10393.1	10081.0	9750.9	9397.0	9314.8	8759.0	8148.7	7548.2
7.5°	11439.4	11440.8	11421.3	11378.1	11183.0	10862.7	10430.7	10344.4	9587.9	8672.5	7723.8
10°	11205.4	11258.3	11366.9	11510.5	11659.5	11619.1	11294.5	11216.5	10394.5	9227.1	7918.8
12.5°	10659.2	10666.2	10787.4	11022.8	11452.0	11892.2	11897.7	11871.3	11165.0	9806.6	8133.4
15°	10387.6	10414.1	10458.6	10610.5	11017.3	11722.2	12226.6	12264.2	11871.3	10422.4	8361.9
17.5°	10565.9	10603.5	10565.9	10584.0	10819.5	11453.4	12283.7	12379.8	12488.5	11031.2	8577.8
20°	11049.4	11084.1	11017.3	10943.4	10989.4	11375.3	12243.2	12372.8	12971.9	11571.8	8759.0
22.5°	11701.4	11715.2	11613.6	11492.3	11458.9	11640.1	12276.7	12410.4	13359.2	12060.7	8873.2
25°	12418.8	12431.3	12304.6	12165.3	12085.8	12159.7	12551.2	12651.4	13700.6	12527.5	8938.7
27.5°	13200.4	13211.6	13052.8	12881.3	12789.4	12792.2	13003.9	13111.3	14064.1	13059.6	8991.6
30°	14026.6	14021.0	13874.7	13636.5	13519.5	13516.7	13655.9	13764.6	14590.8	13742.4	9064.1
32.5°	14954.4	14943.2	14735.7	14440.3	14308.0	14327.5	14451.5	14514.2	15244.2	14469.5	9193.6
35°	16176.2	16144.2	15830.7	15464.3	15220.6	15213.6	15318.0	15368.2	16077.3	15350.0	9409.6
37.5°	17761.6	17732.4	17307.5	16775.3	16432.6	16304.4	16428.4	16492.5	17265.7	16479.9	9756.5
40°	19324.9	19295.6	19043.4	18555.8	18027.8	17719.9	17817.4	17885.6	18749.4	17850.9	10193.9
42.5°	20403.1	20428.2	20516.0	20556.4	20061.8	19415.4	19459.9	19531.0	20308.4	19316.5	10694.1
45°	20687.3	20741.7	21237.7	22211.5	22396.8	21892.5	21425.8	21464.7	21892.5	20782.1	11194.2
47.5°	19833.3	19933.6	20890.8	22701.9	24270.6	24627.2	23744.0	23692.4	23412.4	21967.7	11549.5
50°	17892.6	17984.6	19224.5	21903.6	24839.1	27238.1	26522.0	26370.2	24745.7	22676.8	11674.9
52.5°	15084.0	15195.4	16202.7	19390.3	23767.7	28402.8	29152.3	29025.5	25723.7	22732.6	11695.8
55°	10652.2	10787.4	11853.2	14861.1	20372.5	27476.4	30084.3	30046.8	26536.0	22584.9	11740.4
57.5°	5986.5	6084.0	7233.4	9526.6	14921.0	23932.1	29110.5	29359.9	27026.3	22328.5	11807.2
60°	2658.2	2684.6	3279.5	4742.4	8735.2	18289.7	26322.7	26743.5	26605.6	21985.8	11920.1
62.5°	1474.0	1451.7	1451.7	1971.3	3796.4	11322.4	21464.7	22159.9	24809.8	21580.4	11925.7
65°	1154.9	1134.1	1074.2	1082.5	1446.1	5025.2	14863.9	16099.6	21399.2	20392.0	11524.4
67.5°	979.4	961.3	901.4	877.7	898.6	1657.9	8166.9	9450.0	16237.5	17303.3	9982.2
70°	827.6	815.0	784.4	755.1	702.2	819.2	3124.9	3997.1	10005.8	11510.5	6814.1
72.5°	666.0	660.4	671.6	646.4	582.3	546.2	1068.6	1294.3	4494.4	5136.6	2807.2
75°	574.0	571.2	576.8	551.7	479.3	380.4	543.4	593.5	1267.8	1256.7	568.4
77.5°	373.4	377.6	477.9	466.7	412.4	253.6	281.4	303.7	384.5	288.4	172.7
80°	238.2	235.4	242.4	387.3	370.6	193.7	140.8	147.7	185.3	142.1	83.6
82.5°	144.9	142.1	158.8	181.1	186.7	135.2	86.4	87.8	115.6	91.9	44.6
85°	12.6	16.7	96.1	89.1	64.1	41.8	41.8	44.6	61.3	54.3	25.1
87.5°	0.0	0.0	16.7	25.1	14.0	15.4	15.4	16.7	23.7	23.7	12.6
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°	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1	7225.1
2.5°	7230.6	7085.7	6793.1	6511.7	6273.5	6043.6	5781.7	5522.6	5401.4	5352.6	5302.5
5°	7243.2	6945.0	6341.8	5734.3	5104.6	4537.6	4054.2	3558.2	3310.2	3201.5	3151.3
7.5°	7259.8	6805.7	5830.5	4810.7	3796.4	3027.3	2355.9	1924.0	1737.3	1708.1	1635.6
10°	7262.6	6637.1	5237.0	3790.8	2545.4	1825.1	1404.3	1181.4	1099.2	1085.3	1061.6
12.5°	7268.2	6437.9	4578.0	2807.2	1696.9	1220.4	1015.7	941.8	919.5	918.1	918.1
15°	7285.0	6228.9	3894.0	2022.9	1219.0	966.9	891.7	862.3	854.0	858.2	856.8
17.5°	7285.0	5982.3	3222.4	1507.4	985.0	869.3	827.6	808.0	805.2	809.4	810.8
20°	7232.0	5682.8	2606.7	1173.1	873.5	806.6	769.0	750.9	743.9	746.7	748.1
22.5°	7105.2	5314.9	2105.1	971.0	799.6	749.5	709.1	681.2	670.2	671.6	671.6
25°	6907.4	4878.9	1646.7	840.1	739.7	688.2	640.9	608.9	601.9	600.5	603.3
27.5°	6653.9	4396.9	1311.0	739.7	668.8	619.9	572.6	546.2	540.6	542.0	543.4
30°	6404.5	3896.8	1033.7	654.8	589.3	543.4	507.1	494.6	494.6	498.8	500.1
32.5°	6176.0	3416.1	817.8	580.9	518.2	476.5	455.5	454.2	461.1	463.9	465.3
35°	5979.5	2971.6	677.0	523.8	462.5	426.3	419.4	424.9	433.3	438.9	440.2
37.5°	5840.2	2574.6	592.1	476.5	419.4	390.1	388.7	399.8	411.0	423.5	426.3
40°	5781.7	2238.9	533.6	434.7	384.5	362.2	358.1	373.4	394.2	412.4	415.2
42.5°	5732.9	1964.4	483.5	394.2	356.7	324.6	323.2	342.7	367.8	385.9	390.1
45°	5691.1	1744.2	437.5	351.1	320.5	278.6	282.8	307.9	327.4	346.9	351.1
47.5°	5604.7	1563.1	387.3	305.1	264.7	238.2	246.6	268.8	284.2	313.5	317.7
50°	5450.1	1415.5	335.7	249.4	215.9	206.2	218.7	234.1	253.6	278.6	281.4
52.5°	5345.6	1304.0	291.2	208.9	178.3	181.1	193.7	199.3	210.3	220.1	217.3
55°	5285.7	1242.7	255.0	181.1	151.8	160.2	163.0	156.0	150.4	140.8	136.6
57.5°	5278.8	1187.0	227.1	157.4	133.8	138.0	128.2	104.5	85.0	73.9	71.1
60°	5267.6	1118.7	204.8	132.4	118.4	112.8	91.9	57.1	40.4	37.6	37.6
62.5°	5146.4	1012.9	188.1	111.4	100.3	85.0	52.9	26.5	22.3	23.7	23.7
65°	4760.5	865.1	171.4	90.5	79.4	61.3	26.5	15.4	8.4	9.8	9.8
67.5°	4047.2	689.6	153.2	69.7	59.9	39.0	15.4	7.0	0.0	0.0	0.0
70°	2709.8	427.7	129.6	48.7	39.0	23.7	11.2	1.4	0.0	0.0	0.0
72.5°	1039.3	231.3	104.5	29.3	25.1	16.7	7.0	0.0	0.0	0.0	0.0
75°	234.1	151.8	72.5	20.9	18.1	11.2	2.8	0.0	0.0	0.0	0.0
77.5°	89.1	110.0	41.8	14.0	12.6	7.0	0.0	0.0	0.0	0.0	0.0
80°	43.2	65.5	19.5	8.4	7.0	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	25.1	8.4	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	12.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	4.2	1.4	1.4	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)