

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: P383320

Luminaire Tested: **GLEON-SA6B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24487.6 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

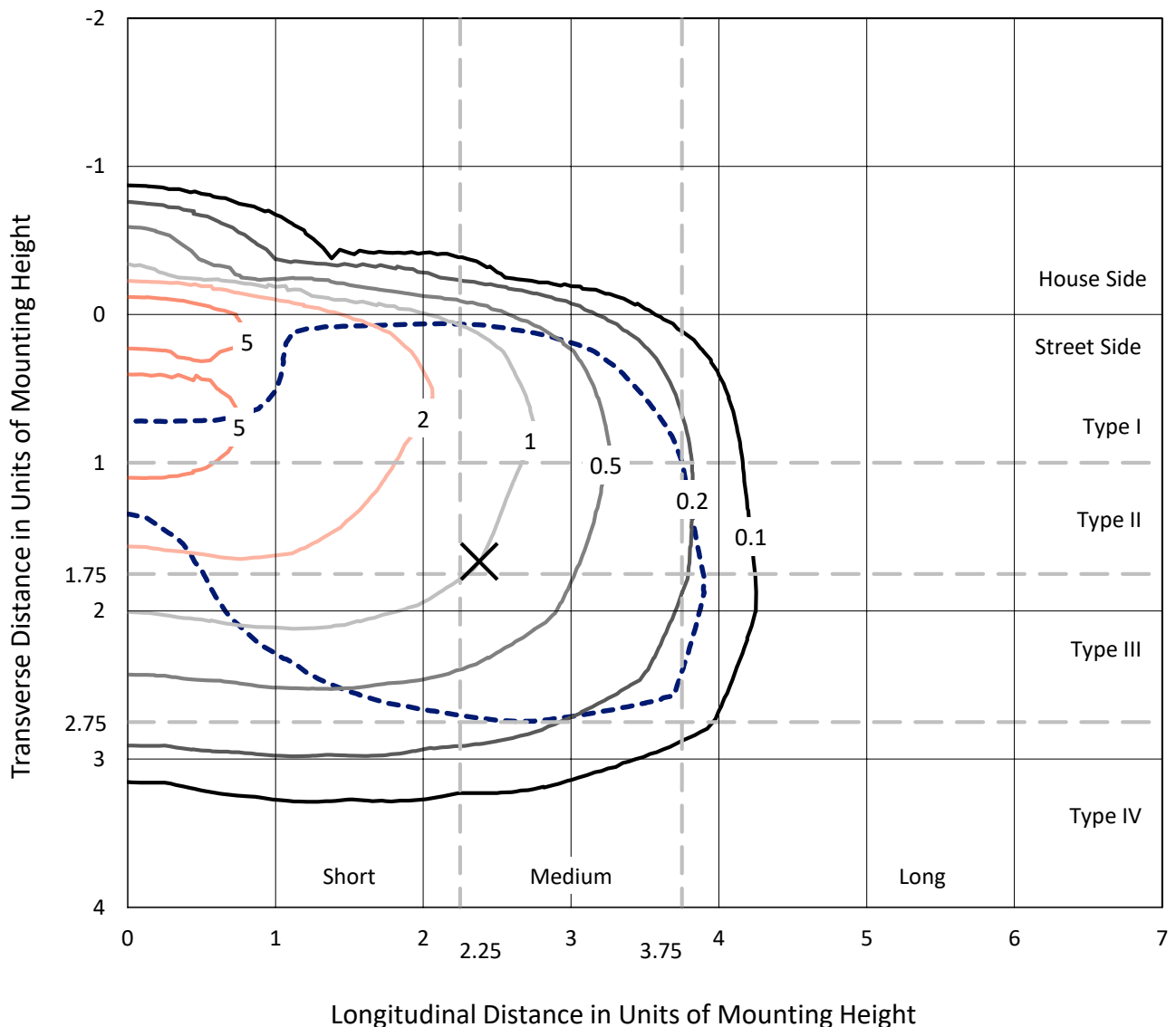
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

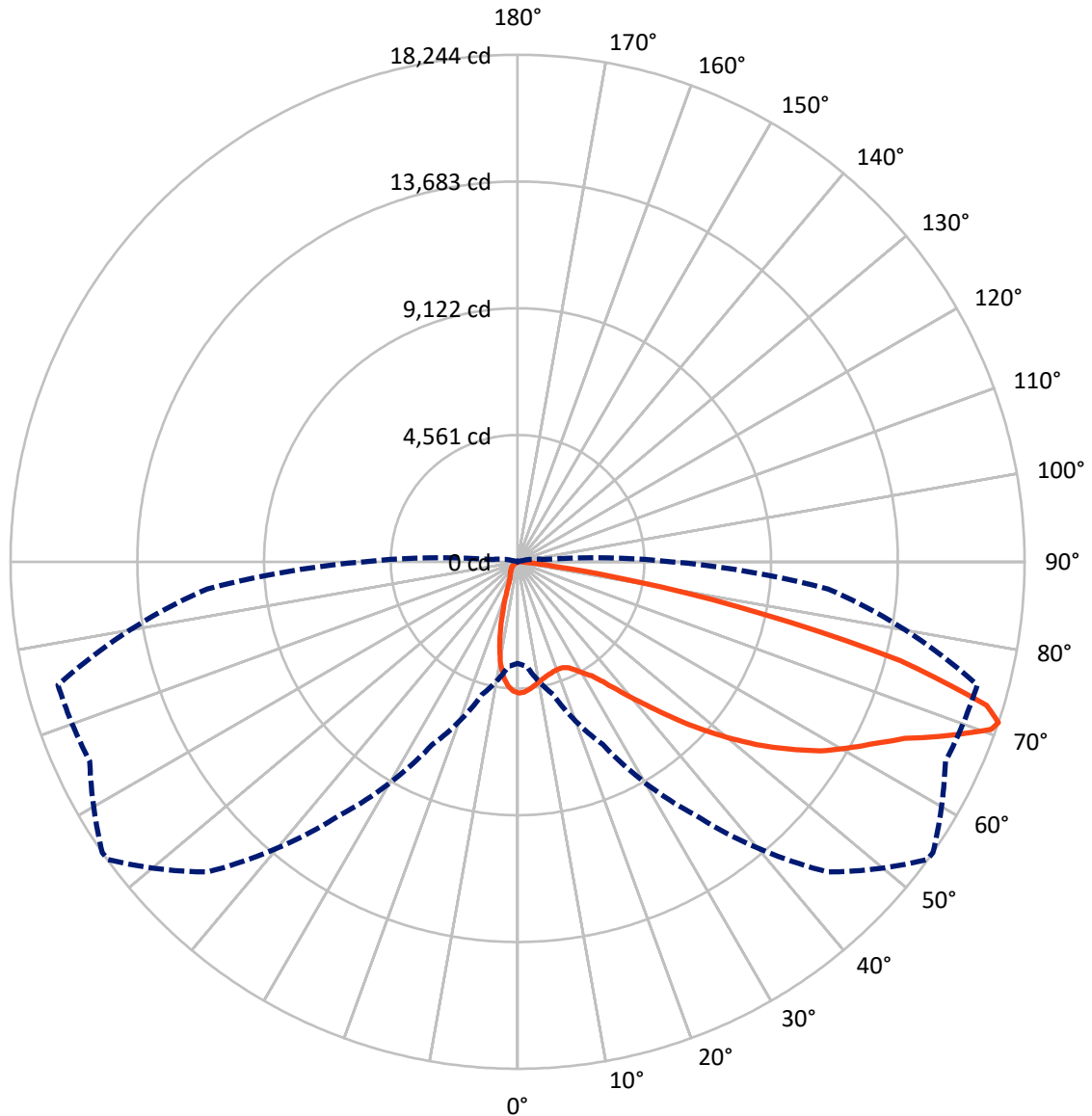
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.7	0.0	1938.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	22548.8	0.0	22548.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	24487.6	0.0	24487.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	1.6
10°-20°	909.0	3.7
20°-30°	1460.8	6.0
30°-40°	2482.0	10.1
40°-50°	3852.4	15.7
50°-60°	5179.5	21.2
60°-70°	6336.3	25.9
70°-80°	3704.7	15.1
80°-90°	160.1	0.7
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°	24487.6	100.0
0°-180°	24487.6	100.0

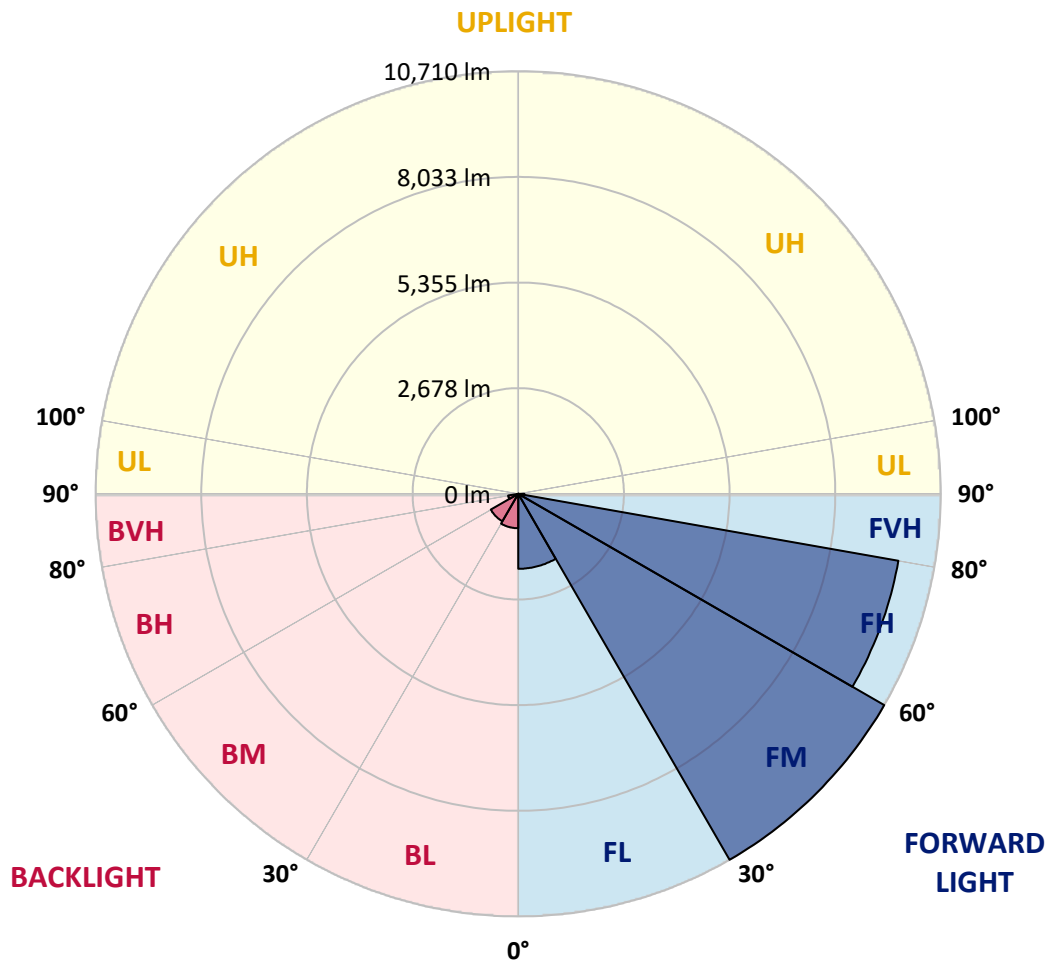


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.9	7.8			
FM (30°-60°)	10710.2	43.7			
FH (60°-80°)	9781.2	39.9			G4/12000
FVH (80°-90°)	157.6	0.6			G2/225
BL (0°-30°)	872.6	3.6	B2/1000		
BM (30°-60°)	803.8	3.3	B1/1000		
BH (60°-80°)	259.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5
2.5°	4584.0	4589.5	4609.3	4618.1	4638.9	4674.1	4691.7	4692.9	4721.5	4732.4	4741.2
5°	4259.6	4292.6	4325.5	4360.8	4424.6	4509.2	4592.8	4600.4	4692.9	4761.0	4797.3
7.5°	3980.3	4010.0	4049.6	4105.7	4195.9	4328.9	4468.5	4485.0	4659.9	4814.9	4896.2
10°	3693.3	3717.5	3774.7	3857.2	3981.4	4159.5	4347.5	4375.1	4630.2	4887.5	5030.4
12.5°	3386.5	3400.9	3470.1	3588.9	3771.5	3997.9	4245.3	4281.6	4611.4	4971.0	5188.7
15°	3153.5	3160.1	3226.0	3349.2	3558.1	3852.8	4166.2	4210.1	4615.8	5071.1	5361.3
17.5°	3094.1	3097.4	3132.6	3217.3	3402.0	3723.0	4103.5	4157.3	4629.0	5169.0	5535.1
20°	3334.9	3311.8	3275.5	3262.4	3341.5	3645.0	4066.1	4126.6	4646.7	5255.8	5691.2
22.5°	3995.7	3927.6	3777.0	3575.7	3453.6	3650.5	4076.0	4136.4	4702.7	5362.5	5871.5
25°	4976.5	4882.0	4625.8	4230.0	3849.5	3808.8	4158.4	4220.0	4811.5	5490.0	6044.2
27.5°	6092.5	5999.1	5685.7	5120.5	4471.8	4122.2	4347.5	4404.7	4973.3	5603.3	6176.1
30°	7161.3	7134.9	6765.5	6123.3	5254.7	4630.2	4591.7	4640.0	5093.1	5671.4	6280.6
32.5°	8067.3	8025.6	7728.7	7104.1	6150.8	5240.4	4878.6	4893.0	5183.2	5759.4	6416.9
35°	8907.4	8855.7	8595.1	8004.6	7070.1	5985.8	5320.6	5299.8	5380.1	5936.4	6614.8
37.5°	9640.8	9688.0	9398.8	8837.0	7894.7	6761.1	5916.6	5853.9	5687.9	6224.5	6901.8
40°	10254.3	10254.3	10103.7	9635.3	8785.3	7562.6	6590.6	6508.2	6150.8	6668.7	7265.8
42.5°	10475.3	10522.6	10578.7	10313.6	9582.5	8396.0	7341.6	7255.8	6802.8	7298.8	7725.3
45°	10488.5	10563.3	10850.3	10849.2	10302.6	9224.0	8188.3	8147.6	7638.5	8108.0	8295.0
47.5°	10302.6	10396.2	10868.9	11137.2	10873.3	9994.9	9114.1	9063.5	8620.4	9099.8	8890.9
50°	10015.7	10119.0	10668.8	11250.5	11261.5	10665.6	10089.4	10013.5	9701.2	10233.4	9506.6
52.5°	9502.3	9702.3	10489.6	11276.8	11516.5	11245.0	11017.4	10984.4	10910.8	11325.3	9997.0
55°	8403.8	8625.9	10039.8	11285.7	11753.0	11758.5	11887.1	11896.0	12044.4	12345.6	10362.1
57.5°	7884.8	8010.1	9254.8	11327.4	12103.7	12341.2	12773.4	12841.5	13071.3	13314.3	10778.8
60°	7558.2	7706.7	8867.8	11270.2	12654.6	13105.4	13594.7	13617.8	13864.1	14313.8	11342.8
62.5°	7297.7	7443.9	8623.7	11050.4	13273.6	14024.6	14397.3	14399.6	14584.3	15504.6	11983.9
65°	6654.4	6777.6	8130.0	10803.0	13682.7	14933.9	15329.7	15315.5	15466.1	16760.3	12728.3
67.5°	5724.2	5818.7	7121.7	9865.1	13528.8	15760.8	16737.2	16689.9	16507.4	17845.6	13020.7
70°	4425.7	4459.7	5613.1	8221.3	12086.2	16078.6	18097.3	18073.1	17146.3	17650.9	11948.7
71°	3658.2	3770.3	4946.8	7255.8	11119.6	15785.0	18229.3	18243.5	16985.7	17120.9	11210.9
72.5°	2124.3	2220.0	3585.6	5572.4	9440.7	14560.1	17545.3	17648.7	16235.8	15572.8	9575.8
75°	455.2	487.1	1329.3	2697.2	5193.1	10204.8	13848.7	14217.0	13232.9	10594.0	5771.5
77.5°	316.6	342.0	569.5	1223.8	1716.4	5042.5	8602.7	9018.4	7905.7	3981.4	1847.3
80°	250.7	279.3	444.3	604.8	464.0	1626.2	4029.8	4283.8	2636.7	888.4	311.1
82.5°	139.6	166.0	346.3	326.6	178.1	309.0	1128.1	1275.5	527.8	179.2	73.7
85°	40.7	49.5	223.2	237.5	75.8	59.3	192.5	238.6	100.0	47.3	33.0
87.5°	0.0	0.0	107.8	91.3	22.0	8.8	17.6	19.7	19.7	19.7	22.0
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°	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5	4722.5
2.5°	4741.2	4748.9	4721.5	4685.1	4646.7	4599.3	4549.9	4511.4	4510.3	4491.6	4472.9
5°	4799.5	4795.0	4719.2	4603.8	4467.4	4325.5	4190.4	4037.5	3986.9	3924.2	3903.4
7.5°	4907.2	4876.5	4716.0	4463.0	4163.9	3867.0	3560.3	3251.4	3119.4	3000.6	2979.7
10°	5042.5	4984.2	4695.0	4252.0	3703.3	3155.7	2692.7	2272.8	2088.1	1946.2	1939.6
12.5°	5183.2	5094.2	4636.8	3933.1	3099.6	2329.9	1796.7	1383.3	1229.3	1130.3	1139.1
15°	5330.6	5197.5	4511.4	3503.1	2412.4	1581.1	1104.0	860.9	799.4	774.1	780.6
17.5°	5481.2	5269.0	4336.5	2985.2	1734.0	1020.4	764.1	696.1	696.1	701.5	703.7
20°	5612.0	5307.5	4079.2	2404.7	1175.4	743.3	668.5	658.6	664.1	672.9	674.0
22.5°	5741.8	5309.6	3743.9	1816.4	822.5	651.0	636.6	632.2	635.5	645.5	646.5
25°	5847.3	5283.3	3323.9	1292.0	656.5	613.5	606.9	604.8	606.9	619.0	619.0
27.5°	5890.3	5187.6	2811.5	908.3	588.3	571.8	569.5	571.8	575.0	583.9	584.9
30°	5894.6	5020.5	2252.9	657.5	533.3	515.7	520.1	527.8	524.5	522.3	524.5
32.5°	5905.6	4827.0	1708.6	540.9	487.1	459.6	454.1	454.1	440.9	433.3	428.8
35°	5941.9	4599.3	1239.1	486.0	439.8	407.9	387.1	362.8	337.6	324.4	321.1
37.5°	5999.1	4360.8	887.3	449.8	398.1	361.7	322.1	279.3	243.0	233.1	233.1
40°	6103.5	4114.5	656.5	421.2	365.1	320.0	260.6	204.5	171.5	166.0	166.0
42.5°	6268.5	3855.0	523.3	395.8	336.5	277.0	199.0	148.4	124.3	120.9	119.9
45°	6440.0	3569.1	457.4	371.7	305.6	227.6	147.4	109.9	95.7	92.3	92.3
47.5°	6611.6	3264.5	425.5	348.6	276.0	177.0	109.9	86.8	80.3	80.3	81.3
50°	6756.7	2946.8	402.4	323.2	237.5	134.1	86.8	73.7	71.4	75.8	76.9
52.5°	6792.9	2634.5	373.8	291.4	190.2	102.3	71.4	64.8	64.8	64.8	64.8
55°	6771.0	2392.6	336.5	251.8	140.8	81.3	61.6	57.2	56.1	56.1	56.1
57.5°	6845.8	2249.7	269.4	195.7	101.2	66.0	53.8	50.6	48.3	47.3	47.3
60°	6996.4	2156.2	192.5	140.8	75.8	55.0	46.2	42.9	39.6	37.4	37.4
62.5°	7196.5	2074.8	142.9	104.4	58.3	44.0	38.5	35.2	30.7	28.6	28.6
65°	7350.4	1929.7	108.9	78.1	44.0	35.2	29.7	28.6	22.0	19.7	18.7
67.5°	7115.2	1610.8	87.9	57.2	33.0	27.5	23.1	22.0	13.2	11.0	11.0
70°	6102.5	1121.5	70.3	41.8	24.2	22.0	18.7	14.3	9.9	8.8	8.8
71°	5534.0	936.8	63.8	35.2	20.9	20.9	17.6	12.1	8.8	7.7	7.7
72.5°	4597.2	665.2	53.8	27.5	18.7	22.0	18.7	11.0	8.8	7.7	6.6
75°	2668.6	278.2	37.4	18.7	14.3	26.4	24.2	9.9	6.6	5.5	5.5
77.5°	802.6	102.3	20.9	12.1	11.0	23.1	27.5	8.8	3.3	1.1	1.1
80°	146.3	44.0	13.2	7.7	7.7	14.3	20.9	4.4	0.0	0.0	0.0
82.5°	51.7	22.0	7.7	4.4	3.3	6.6	9.9	0.0	0.0	0.0	0.0
85°	29.7	15.4	4.4	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	19.7	4.4	0.0	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)