

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: P383279

Luminaire Tested: **GLEON-SA6A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25965.9 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

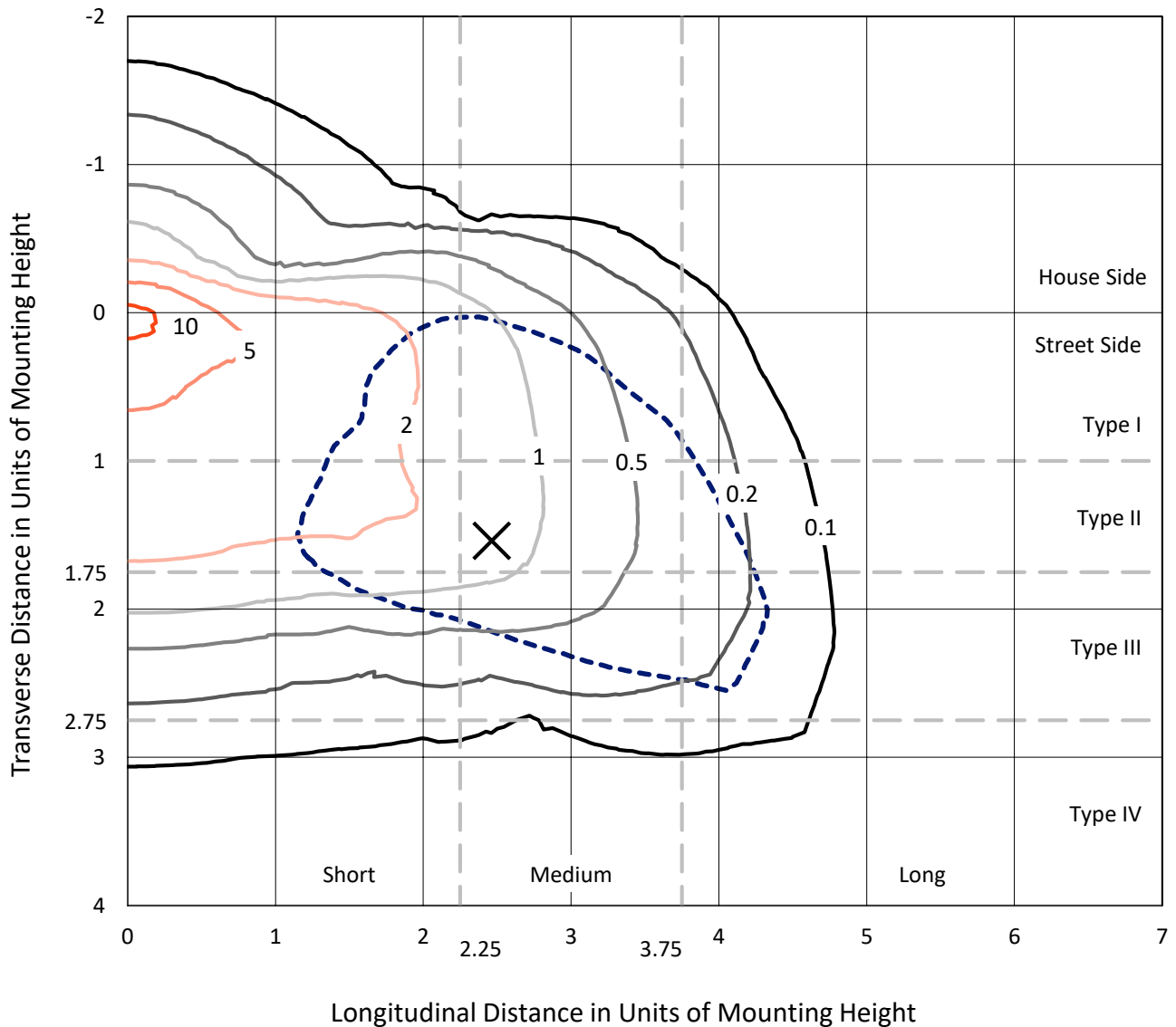
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

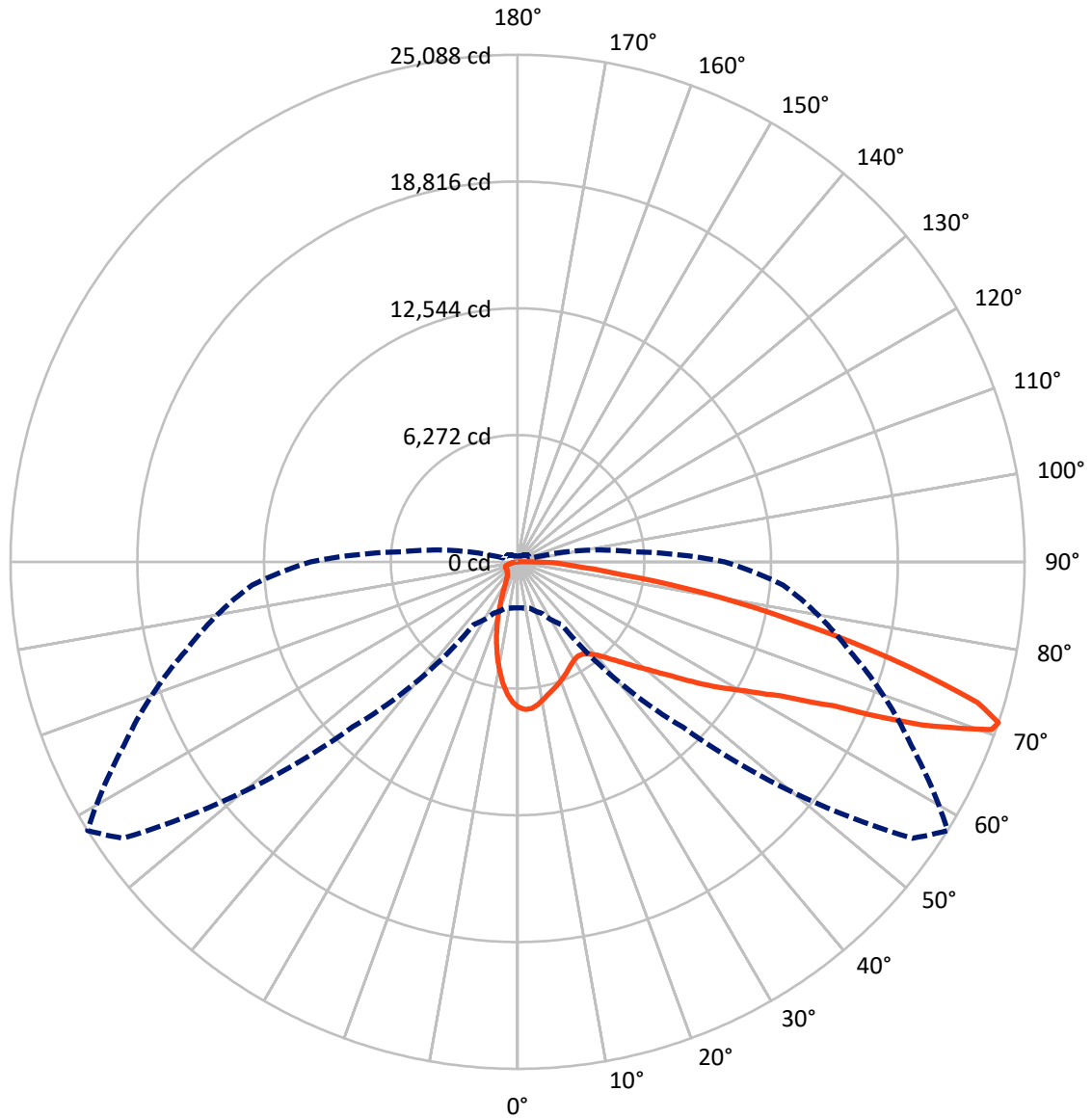
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.1	0.0	3882.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22083.9	0.0	22083.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	25965.9	0.0	25965.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.7	2.4
10°-20°	1380.1	5.3
20°-30°	1754.0	6.8
30°-40°	2234.2	8.6
40°-50°	3168.2	12.2
50°-60°	4902.9	18.9
60°-70°	6674.7	25.7
70°-80°	4452.8	17.1
80°-90°	778.5	3.0
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°	25965.9	100.0
0°-180°	25965.9	100.0

Coefficient of Utilization

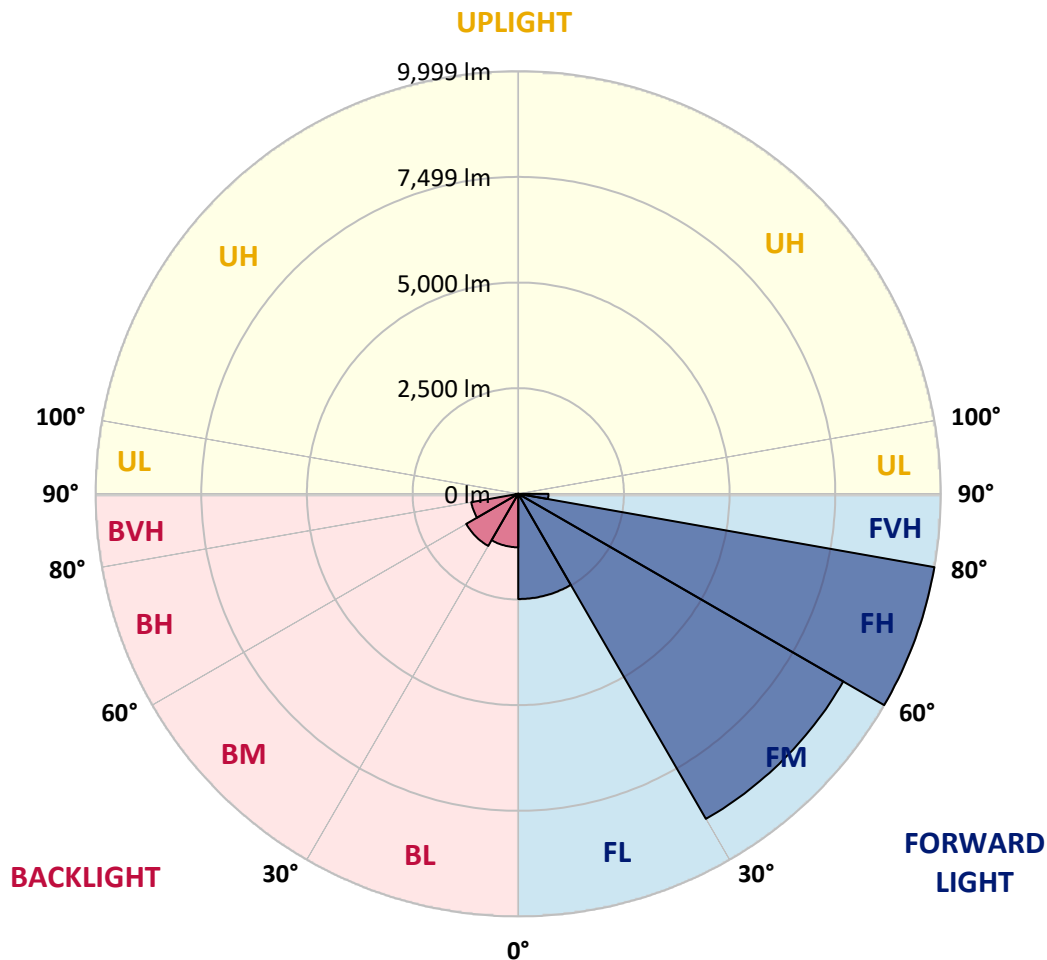


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.3	9.6			
FM (30°-60°)	8881.6	34.2			
FH (60°-80°)	9999.2	38.5			G4/12000
FVH (80°-90°)	713.8	2.7			G4/750
BL (0°-30°)	1265.4	4.9	B3/2500		
BM (30°-60°)	1423.7	5.5	B2/2500		
BH (60°-80°)	1128.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3
2.5°	7385.1	7375.2	7378.8	7371.6	7354.4	7337.2	7311.9	7316.4	7281.2	7228.7	7163.5
5°	7245.9	7242.2	7269.4	7284.8	7297.5	7287.5	7280.2	7289.3	7237.8	7165.4	7052.3
7.5°	6953.7	6913.9	6948.3	6999.8	7048.6	7085.7	7134.6	7141.0	7108.4	7032.4	6884.0
10°	6538.5	6500.5	6551.2	6631.7	6729.4	6818.0	6916.6	6934.7	6941.1	6872.3	6692.3
12.5°	6108.0	6079.1	6129.7	6242.8	6404.7	6541.2	6698.7	6725.8	6781.9	6735.7	6515.1
15°	5722.7	5711.9	5773.4	5884.6	6070.9	6279.8	6506.9	6556.6	6651.6	6636.3	6376.6
17.5°	5389.8	5387.1	5434.2	5550.8	5757.1	6021.2	6316.1	6400.2	6541.2	6559.4	6262.7
20°	5142.0	5136.6	5169.2	5255.0	5467.6	5767.0	6109.8	6225.6	6429.1	6492.4	6145.1
22.5°	5009.0	5008.2	5009.0	5049.7	5223.5	5502.0	5909.0	6050.1	6319.6	6439.0	6014.8
25°	4986.5	4983.8	4963.8	4959.3	5057.9	5280.4	5710.0	5865.6	6215.7	6402.0	5890.9
27.5°	5045.3	5048.9	5022.6	4980.1	5000.0	5134.8	5537.3	5703.7	6132.5	6394.7	5805.0
30°	5167.4	5165.5	5142.9	5098.6	5059.7	5080.5	5414.2	5580.7	6076.4	6426.4	5746.3
32.5°	5302.1	5312.1	5307.6	5283.1	5225.2	5142.0	5377.2	5540.0	6060.1	6502.4	5720.9
35°	5464.0	5474.9	5507.4	5526.4	5458.6	5324.7	5456.8	5597.9	6107.1	6645.3	5761.6
37.5°	5617.8	5645.8	5737.2	5817.7	5759.8	5610.5	5668.5	5768.8	6252.7	6870.5	5871.1
40°	5795.1	5819.5	5968.7	6139.6	6130.6	5976.0	6009.4	6076.4	6509.6	7193.4	6069.1
42.5°	5969.6	6018.4	6234.7	6477.1	6546.7	6410.1	6463.4	6498.8	6871.4	7621.3	6414.6
45°	6202.1	6254.5	6554.8	6847.0	7009.8	6932.9	7017.9	7031.5	7326.3	8203.7	6916.6
47.5°	6553.9	6613.6	6963.7	7270.3	7519.0	7527.2	7667.4	7661.9	7894.4	8870.3	7548.9
50°	7102.0	7188.0	7474.7	7761.4	8063.5	8231.7	8419.0	8392.8	8575.5	9580.3	8277.0
52.5°	7820.2	7860.0	8072.6	8284.3	8659.6	9036.8	9305.4	9281.8	9347.9	10310.3	9103.6
55°	8564.6	8594.5	8682.2	8798.0	9302.7	9917.7	10485.8	10448.7	10281.3	11068.3	9920.4
57.5°	9234.0	9294.5	9355.2	9403.0	9950.3	10838.5	11693.3	11696.0	11294.4	11885.9	10764.3
60°	9337.9	9391.3	9792.0	10170.1	11058.3	12066.8	12985.8	12958.6	12342.6	12773.2	11705.0
62.5°	8254.4	8374.7	9044.0	10049.8	12125.6	14313.5	14634.6	14601.2	13596.3	13866.7	12800.3
65°	5915.3	6051.9	6859.6	8371.1	11608.2	16789.1	17610.4	17159.9	15305.8	15211.7	14082.9
67.5°	3412.6	3445.2	3795.2	5009.0	8838.7	16918.5	22150.1	21519.6	17960.4	16737.6	14710.6
70°	2523.6	2522.6	2605.8	3082.5	4782.9	13808.0	24309.0	24874.4	20755.3	17239.6	13823.3
71°	2282.0	2284.7	2377.9	2805.7	3788.0	11557.5	23850.5	25087.8	21491.5	16991.7	13181.1
72.5°	1951.9	1960.9	2090.3	2516.3	3186.5	7970.3	21875.1	23807.1	21840.7	16380.3	12176.3
75°	1480.7	1501.5	1680.5	2121.0	2912.5	4042.2	16054.7	19010.6	19402.2	14453.7	9047.6
77.5°	1056.5	1079.9	1282.6	1783.6	2768.7	3046.3	10751.6	13866.7	14278.3	9262.8	4081.0
80°	667.5	695.6	848.5	1419.1	2601.3	2892.5	6756.5	9320.8	7785.9	2964.0	1038.4
82.5°	391.6	413.3	526.4	927.1	2124.7	2785.8	3975.2	5166.5	3030.0	895.4	472.1
85°	227.0	237.0	328.4	590.6	1543.0	2629.4	2920.6	2888.1	1315.2	437.7	223.4
87.5°	105.8	117.6	194.5	308.4	856.6	1905.8	2308.3	1994.4	817.6	205.3	104.9
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°	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3
2.5°	7131.9	7116.6	7052.3	6995.4	6935.7	6857.9	6771.9	6761.1	6708.6	6718.5	6700.4
5°	6990.8	6951.9	6797.2	6657.0	6491.5	6343.2	6182.2	6108.0	6001.3	5994.0	5966.9
7.5°	6789.1	6716.7	6477.1	6211.1	5945.2	5691.9	5441.4	5276.8	5108.5	5037.1	5030.7
10°	6562.1	6439.0	6086.3	5692.9	5309.4	4939.4	4581.3	4316.2	4077.5	3964.4	3959.8
12.5°	6346.8	6165.0	5681.1	5145.7	4621.0	4141.7	3650.5	3302.2	3002.9	2902.5	2860.0
15°	6164.1	5908.2	5286.7	4602.0	3965.3	3299.5	2740.6	2374.3	2097.5	2001.6	1983.5
17.5°	5986.8	5657.6	4882.4	4053.0	3283.3	2551.6	1991.6	1719.5	1572.0	1533.1	1532.2
20°	5810.4	5399.8	4460.1	3491.3	2623.9	1908.5	1531.3	1409.2	1359.4	1354.9	1347.7
22.5°	5610.5	5126.7	4015.9	2927.9	2047.7	1500.5	1301.6	1252.7	1246.4	1262.7	1262.7
25°	5423.3	4855.3	3565.5	2376.1	1592.8	1251.8	1162.3	1152.3	1169.5	1198.4	1201.1
27.5°	5248.7	4593.9	3125.9	1885.8	1276.2	1102.6	1065.5	1077.2	1108.0	1141.4	1142.4
30°	5105.0	4347.0	2699.0	1486.1	1078.2	991.4	985.0	1008.5	1041.9	1068.2	1074.5
32.5°	4993.7	4136.3	2286.6	1194.8	948.8	908.1	913.6	933.4	954.3	968.7	978.7
35°	4942.1	3955.4	1905.8	1007.6	866.5	843.9	851.2	862.0	871.0	881.9	890.0
37.5°	4951.2	3815.2	1565.7	890.9	811.3	799.5	799.5	799.5	799.5	805.0	805.9
40°	5035.3	3734.7	1288.9	816.8	774.2	761.5	751.7	742.6	735.4	739.0	737.1
42.5°	5250.6	3727.4	1086.3	769.7	744.4	723.6	703.7	691.0	682.0	685.6	687.4
45°	5615.9	3817.9	949.7	736.3	716.4	684.7	659.3	645.8	639.5	651.2	653.0
47.5°	6089.1	4015.1	866.5	711.8	690.1	648.5	621.3	608.8	610.5	627.7	632.2
50°	6698.7	4335.2	826.7	696.4	672.0	617.8	589.8	578.9	584.3	608.8	614.2
52.5°	7368.0	4796.5	831.2	692.0	660.3	595.2	565.3	552.7	561.7	584.3	588.8
55°	8140.4	5351.0	906.3	698.3	643.0	580.7	545.4	523.7	530.9	551.8	555.4
57.5°	8998.7	5985.9	1057.3	696.4	621.3	567.1	524.6	492.0	497.4	510.1	513.7
60°	9892.4	6752.9	1291.6	701.9	611.5	550.8	496.6	455.9	454.0	464.9	466.7
62.5°	10965.2	7640.2	1559.3	705.5	617.8	530.1	459.4	419.7	414.3	417.0	418.8
65°	12070.4	8282.4	1458.9	691.0	637.6	512.8	426.9	384.4	374.5	372.6	373.6
67.5°	12104.8	7594.1	1022.9	662.1	645.8	503.8	402.5	354.5	338.2	331.9	331.1
70°	10855.7	6169.5	796.8	631.3	613.2	489.3	379.9	330.1	305.7	295.8	294.8
71°	10246.1	5679.3	755.2	615.9	588.8	474.9	369.9	319.2	294.0	283.1	281.3
72.5°	9290.0	5091.4	704.6	591.5	541.8	437.7	350.9	303.9	277.7	265.0	262.3
75°	6667.0	3329.4	605.1	527.3	448.6	349.1	307.5	273.1	250.6	235.1	233.4
77.5°	2568.7	1325.0	457.7	438.7	343.7	273.1	253.3	236.1	219.8	204.4	203.5
80°	794.1	592.5	333.8	330.1	248.7	203.5	197.2	192.6	186.3	170.0	166.5
82.5°	424.2	340.1	229.7	213.4	162.8	135.6	142.9	144.8	145.6	128.5	126.6
85°	202.6	180.0	129.3	121.2	95.0	76.0	87.8	95.0	95.9	78.7	73.2
87.5°	96.8	94.1	60.6	46.1	35.3	25.3	30.7	38.0	41.6	29.8	26.3
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)