

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: P383448

Luminaire Tested: **GLEON-SA7C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37824.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

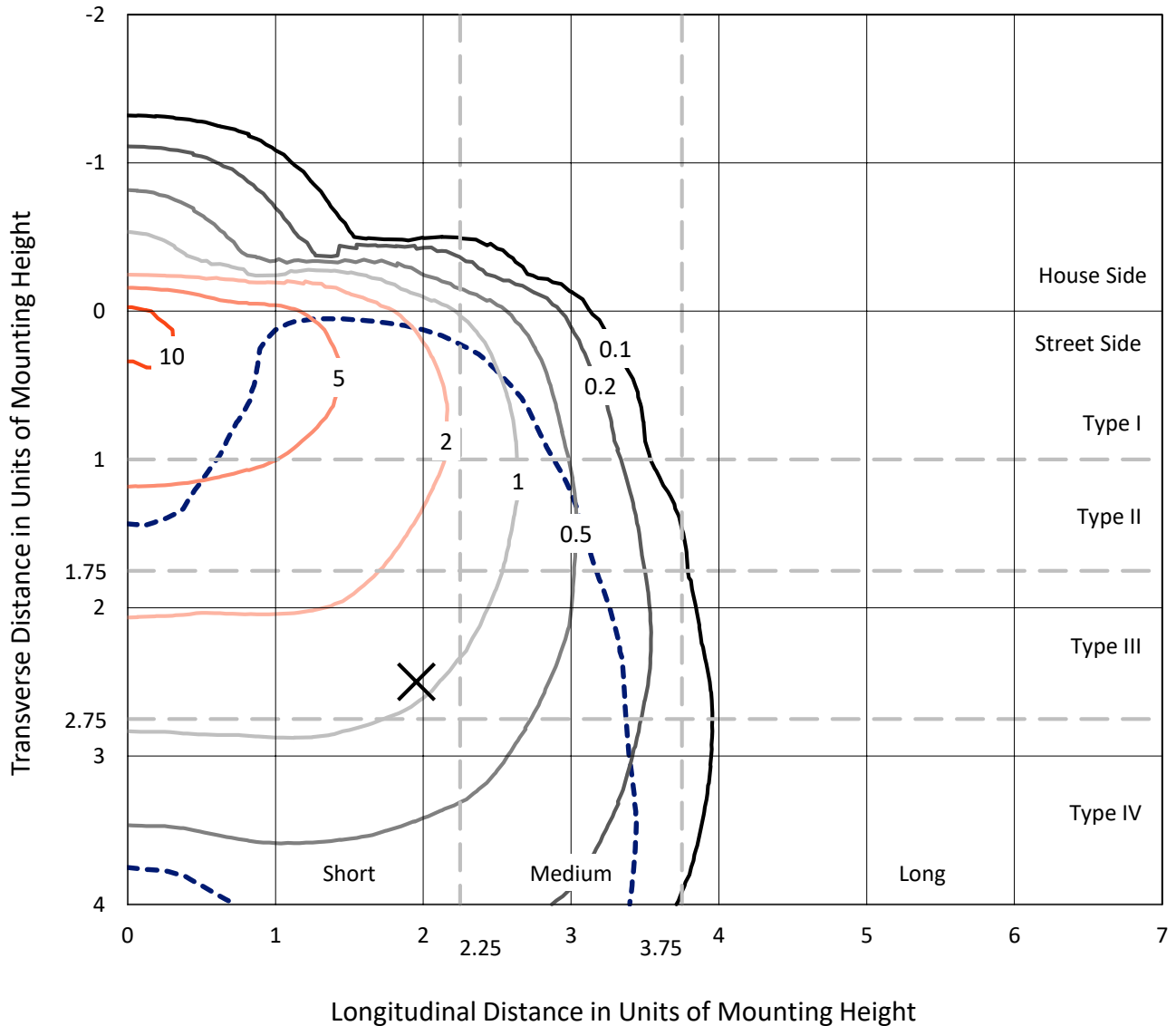
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

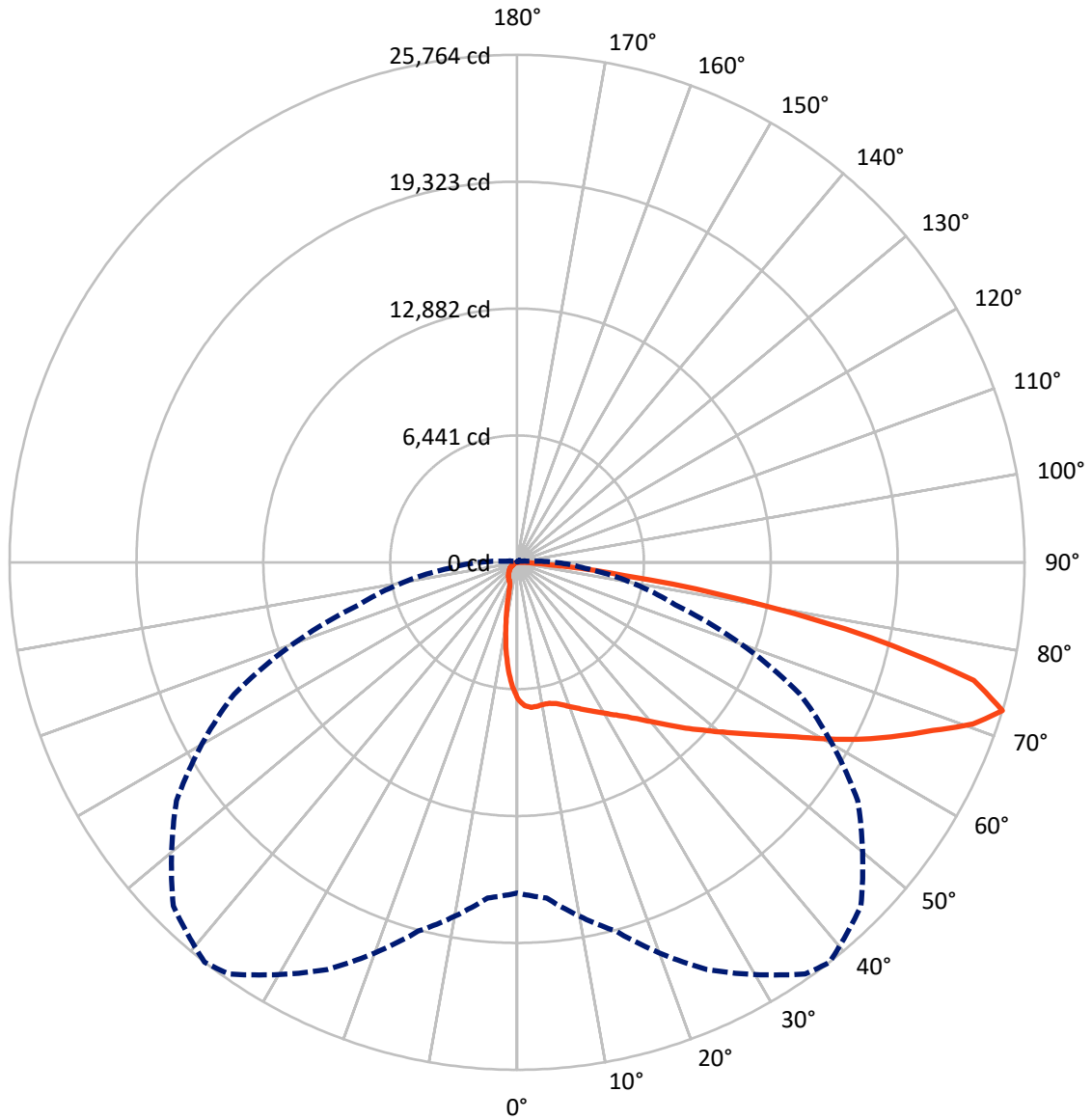
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3183.1	0.0	3183.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34641.5	0.0	34641.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	37824.6	0.0	37824.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	1.6
10°-20°	1449.5	3.8
20°-30°	2305.3	6.1
30°-40°	3465.8	9.2
40°-50°	5287.3	14.0
50°-60°	7472.8	19.8
60°-70°	9373.4	24.8
70°-80°	7008.7	18.5
80°-90°	869.1	2.3
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°	37824.6	100.0
0°-180°	37824.6	100.0

Coefficient of Utilization

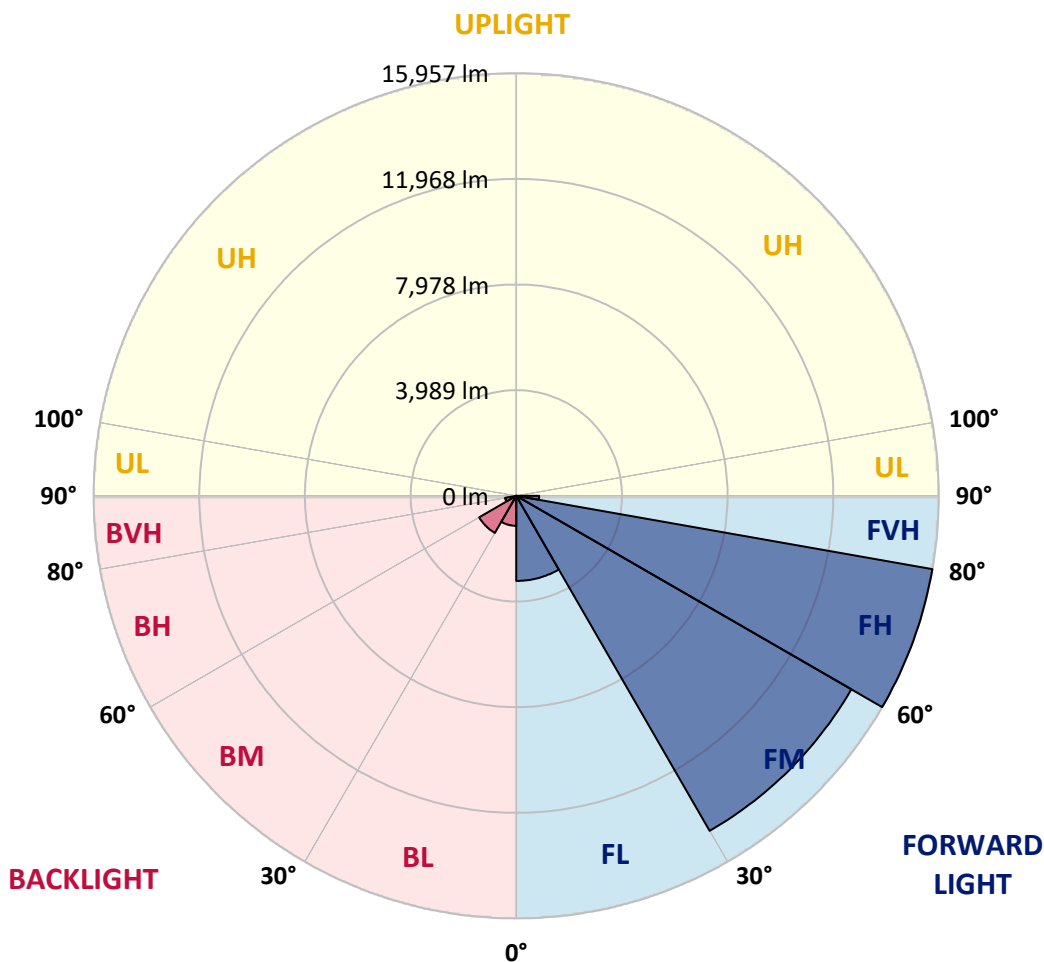


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.2	8.5			
FM (30°-60°)	14609.5	38.6			
FH (60°-80°)	15956.8	42.2			G5
FVH (80°-90°)	860.9	2.3			G5
BL (0°-30°)	1133.4	3.0	B3/2500		
BM (30°-60°)	1616.4	4.3	B2/2500		
BH (60°-80°)	425.2	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8
2.5°	7383.1	7384.7	7367.4	7339.1	7303.0	7284.1	7252.8	7202.4	7149.1	7053.2	6949.5
5°	7533.9	7533.9	7511.9	7474.2	7416.1	7398.8	7339.1	7259.0	7149.1	6993.5	6819.1
7.5°	7518.1	7521.3	7491.5	7452.2	7394.1	7378.4	7306.1	7216.6	7079.9	6891.4	6668.3
10°	7436.5	7444.4	7420.8	7402.0	7348.5	7331.3	7263.7	7174.1	7037.5	6836.4	6580.4
12.5°	7353.3	7361.1	7368.9	7386.2	7353.3	7346.9	7293.6	7218.2	7087.8	6878.8	6589.8
15°	7299.8	7315.5	7372.1	7439.6	7447.5	7441.2	7406.6	7335.9	7204.0	6987.3	6657.3
17.5°	7299.8	7324.9	7442.8	7571.6	7617.2	7621.8	7592.0	7493.1	7335.9	7103.5	6720.2
20°	7361.1	7395.6	7579.4	7761.7	7837.1	7837.1	7779.0	7640.7	7456.9	7208.7	6762.6
22.5°	7518.1	7563.7	7794.6	8005.2	8085.3	8067.9	7989.4	7788.4	7582.6	7328.1	6816.0
25°	7827.6	7862.2	8102.5	8314.6	8363.3	8324.0	8225.1	7967.4	7742.8	7489.9	6913.4
27.5°	8226.7	8231.3	8479.6	8658.6	8628.8	8602.1	8478.0	8192.1	7973.8	7720.9	7081.4
30°	8664.9	8664.9	8883.2	9019.9	8928.8	8906.8	8782.7	8463.9	8269.1	8035.0	7320.3
32.5°	9089.0	9107.9	9285.4	9371.8	9269.7	9247.8	9126.7	8807.9	8661.8	8514.2	7692.5
35°	9499.1	9513.2	9681.3	9728.4	9631.0	9637.3	9550.9	9280.7	9225.7	9206.9	8253.3
37.5°	9896.5	9899.6	10070.9	10100.7	10052.0	10105.4	10113.3	9874.5	9976.6	10129.0	9043.5
40°	10259.3	10262.5	10432.1	10509.2	10592.3	10661.5	10722.8	10595.5	10933.3	11286.7	9984.4
42.5°	10550.0	10582.9	10798.1	10944.3	11164.1	11296.1	11462.6	11456.4	12072.1	12603.1	11121.7
45°	10806.0	10862.6	11162.6	11418.6	11795.6	12006.2	12266.9	12471.1	13353.9	14068.7	12273.2
47.5°	11143.7	11197.2	11539.6	11959.0	12461.7	12738.2	13170.1	13611.6	14763.1	15507.7	13398.0
50°	11619.8	11596.2	11933.9	12535.6	13181.2	13544.1	14159.8	14821.2	16161.1	16761.1	14059.3
52.5°	12127.1	12117.7	12367.4	13162.3	14029.5	14453.6	15267.3	16071.5	17497.9	17625.2	14362.5
55°	12755.5	12688.0	12898.4	13877.1	15036.4	15491.9	16450.1	17309.5	18562.9	18112.2	14514.8
57.5°	13413.6	13302.1	13503.2	14673.5	16172.1	16710.9	17760.2	18515.8	19271.4	18445.1	14513.2
60°	14093.8	13961.8	14200.7	15669.5	17582.8	18206.4	19180.3	19331.1	19932.8	18613.3	14406.5
62.5°	14662.5	14583.9	14938.9	16734.5	19158.3	19771.0	20253.2	20072.6	20490.4	18743.6	14156.6
65°	15264.2	15268.8	15842.2	17977.0	20832.9	21246.0	21286.9	21034.0	20956.9	18716.9	13311.5
67.5°	16077.9	16153.2	17109.9	19664.1	22461.8	22780.7	22777.6	22075.4	21297.9	17655.0	11437.5
70°	16938.7	17116.2	18570.9	21594.8	24240.1	24563.7	24397.1	22738.3	20053.7	14276.1	8094.7
72.5°	16794.1	17102.1	19383.0	22812.2	25517.2	25763.8	24681.5	21109.3	15850.1	8297.3	3446.4
75°	12956.5	13313.1	17772.8	21605.8	24177.3	23955.8	21206.8	16426.6	8661.8	2315.5	776.0
77.5°	6844.3	7034.4	11740.7	16459.6	18852.0	18388.6	14938.9	9112.6	2640.7	573.4	348.8
80°	3584.7	3628.8	5116.3	9338.9	11635.4	11638.6	8853.4	4002.6	1088.6	293.7	234.1
82.5°	1919.6	1957.3	2703.4	4315.2	6096.5	5526.3	3389.9	2202.4	633.1	166.5	224.6
85°	461.9	469.7	1533.1	1971.4	2397.2	1712.3	1006.9	1848.9	171.2	97.4	182.2
87.5°	177.6	180.6	568.6	853.0	611.1	395.8	471.3	689.6	22.0	37.7	28.3
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°	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8
2.5°	6886.7	6845.9	6745.3	6618.1	6505.0	6423.3	6300.8	6220.7	6167.2	6165.6	6145.2
5°	6712.4	6629.1	6412.3	6154.6	5920.6	5710.1	5461.9	5265.6	5119.5	5095.9	5045.6
7.5°	6525.4	6388.7	6055.7	5653.6	5260.8	4861.8	4398.4	4111.0	3864.3	3746.5	3733.9
10°	6410.7	6219.1	5746.3	5165.1	4549.2	3900.5	3294.1	2874.7	2571.5	2485.1	2420.7
12.5°	6387.2	6134.2	5507.5	4706.4	3826.6	2968.9	2298.2	1852.0	1610.2	1533.1	1512.7
15°	6410.7	6094.9	5306.4	4252.3	3094.6	2106.5	1542.5	1283.4	1192.3	1170.3	1168.7
17.5°	6424.9	6047.9	5078.6	3748.1	2384.6	1504.9	1181.3	1105.9	1091.8	1090.2	1093.4
20°	6423.3	5975.6	4806.9	3185.7	1773.5	1182.9	1068.2	1052.5	1049.3	1050.9	1049.3
22.5°	6412.3	5890.7	4508.4	2606.1	1339.9	1057.2	1019.5	1010.1	1008.5	1008.5	1008.5
25°	6432.7	5823.2	4180.0	2051.5	1104.3	999.1	975.5	967.7	966.1	966.1	962.9
27.5°	6506.6	5785.5	3820.4	1578.7	997.5	947.2	928.4	926.8	922.1	920.6	923.6
30°	6625.9	5785.5	3426.0	1228.4	933.1	893.8	879.7	876.6	875.0	873.4	875.0
32.5°	6836.4	5829.5	2995.7	1021.1	871.8	834.1	824.7	829.4	824.7	824.7	824.7
35°	7216.6	5961.4	2544.8	890.7	807.5	776.0	766.6	772.9	769.7	769.7	768.2
37.5°	7771.1	6206.5	2090.9	812.1	750.9	717.9	705.3	714.8	711.6	711.6	710.0
40°	8446.5	6563.1	1658.8	752.4	695.9	661.3	650.3	655.1	647.2	647.2	650.3
42.5°	9280.7	7015.5	1281.8	694.3	640.9	607.9	601.7	596.9	582.8	575.0	576.5
45°	10207.5	7486.8	999.1	637.7	589.1	562.4	553.0	540.4	516.8	501.1	502.7
47.5°	11035.4	7849.6	812.1	582.8	542.0	521.6	507.4	483.8	449.3	430.4	432.0
50°	11470.5	7904.6	691.2	527.8	498.0	477.5	457.1	421.0	380.2	359.8	358.2
52.5°	11582.0	7647.0	601.7	477.5	453.9	430.4	403.7	355.0	309.5	287.5	284.3
55°	11622.8	7254.2	521.6	430.4	406.9	380.2	345.6	290.6	248.2	226.2	224.6
57.5°	11487.8	6668.3	458.7	388.0	359.8	326.8	284.3	232.5	191.6	174.4	174.4
60°	11187.7	5875.1	410.0	342.4	311.0	273.3	229.3	180.6	143.0	128.8	128.8
62.5°	10589.3	4847.7	364.4	295.3	265.5	226.2	185.4	136.7	100.5	92.7	94.3
65°	9459.8	3677.4	318.9	252.9	226.2	187.0	144.5	97.4	67.5	67.5	70.7
67.5°	7714.5	2554.2	271.7	215.2	194.8	152.4	109.9	67.5	47.1	53.4	59.7
70°	5106.9	1432.6	232.5	177.6	166.5	120.9	81.7	45.6	37.7	50.3	61.3
72.5°	1927.5	557.6	194.8	143.0	144.5	92.7	58.1	34.6	34.6	55.0	72.3
75°	537.2	273.3	139.8	105.3	113.1	67.5	42.4	29.8	33.0	62.9	84.9
77.5°	315.7	201.0	91.1	61.3	76.9	47.1	28.3	23.6	28.3	53.4	81.7
80°	254.5	106.8	53.4	31.4	42.4	26.7	18.8	14.2	7.8	20.4	42.4
82.5°	254.5	64.4	25.2	22.0	22.0	14.2	9.4	6.2	1.6	0.0	11.0
85°	171.2	26.7	15.7	14.2	11.0	4.8	3.2	1.6	0.0	0.0	0.0
87.5°	28.3	11.0	6.2	3.2	1.6	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)