

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: P383502

Luminaire Tested: **GLEON-SA8A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29722.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

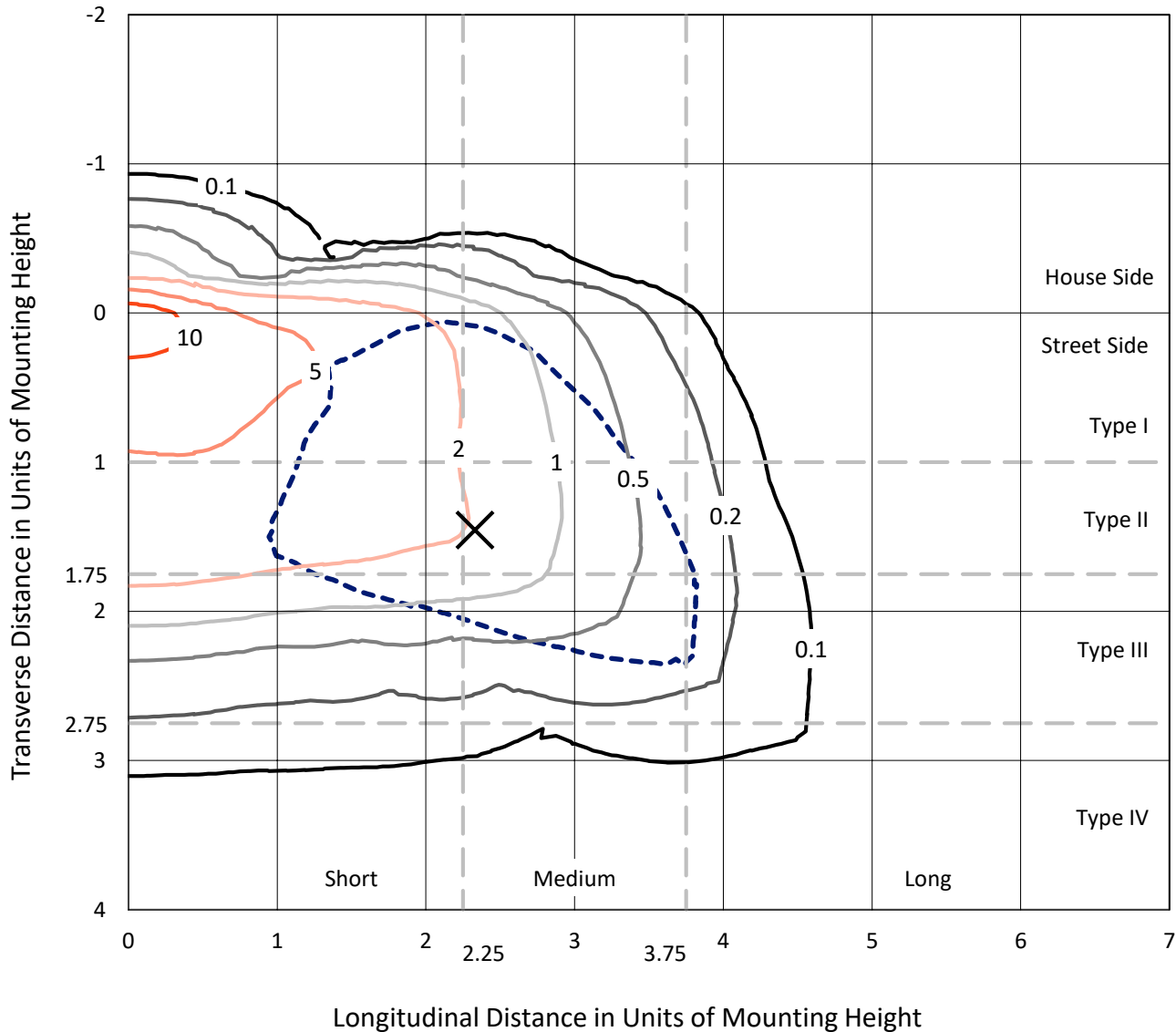
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

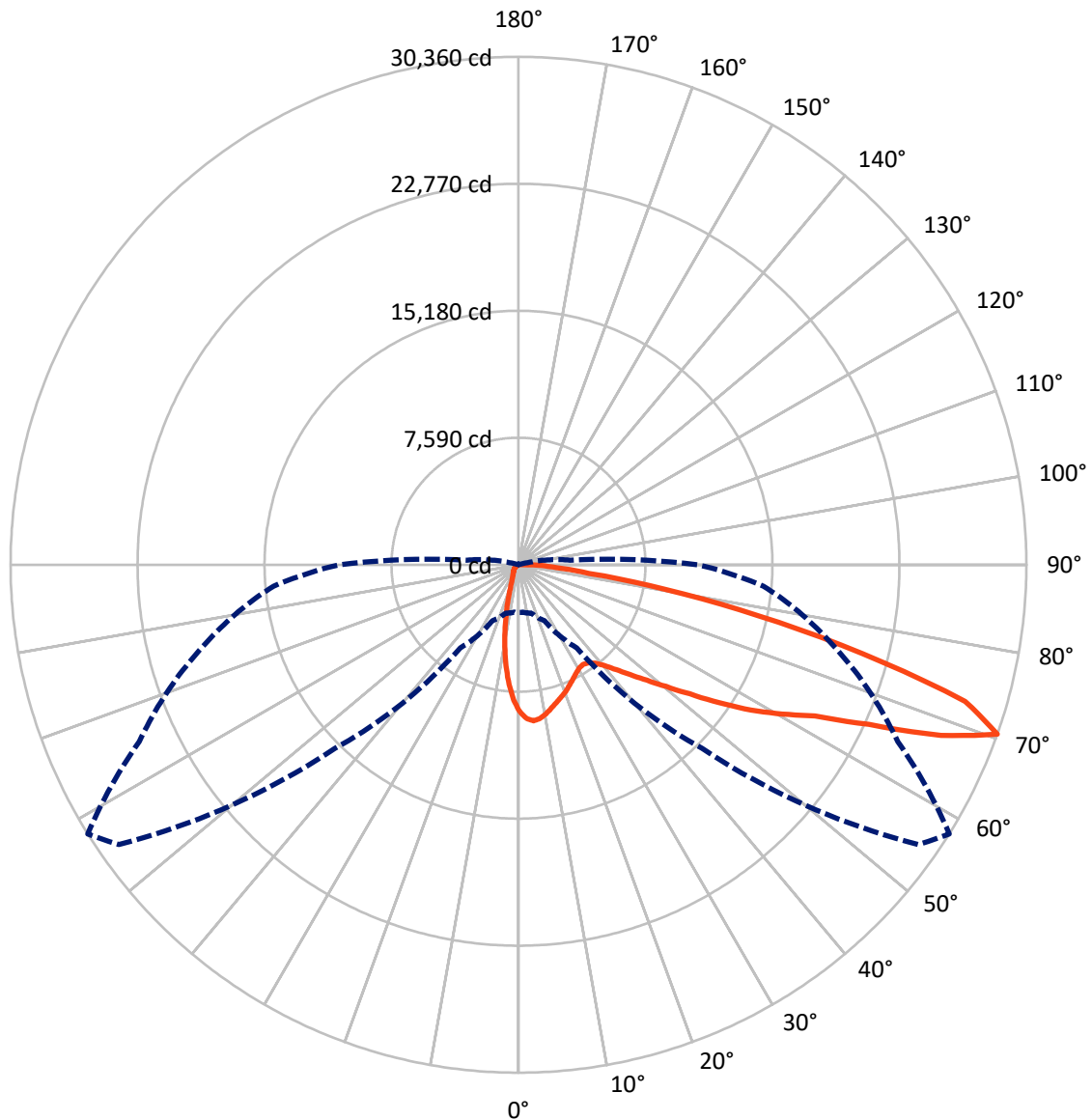
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2543.6	0.0	2543.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	27179.3	0.0	27179.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	29722.9	0.0	29722.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.0	2.4
10°-20°	1506.9	5.1
20°-30°	1981.0	6.7
30°-40°	2623.6	8.8
40°-50°	3921.5	13.2
50°-60°	6282.1	21.1
60°-70°	7918.6	26.6
70°-80°	4271.2	14.4
80°-90°	500.0	1.7
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°	29722.9	100.0
0°-180°	29722.9	100.0

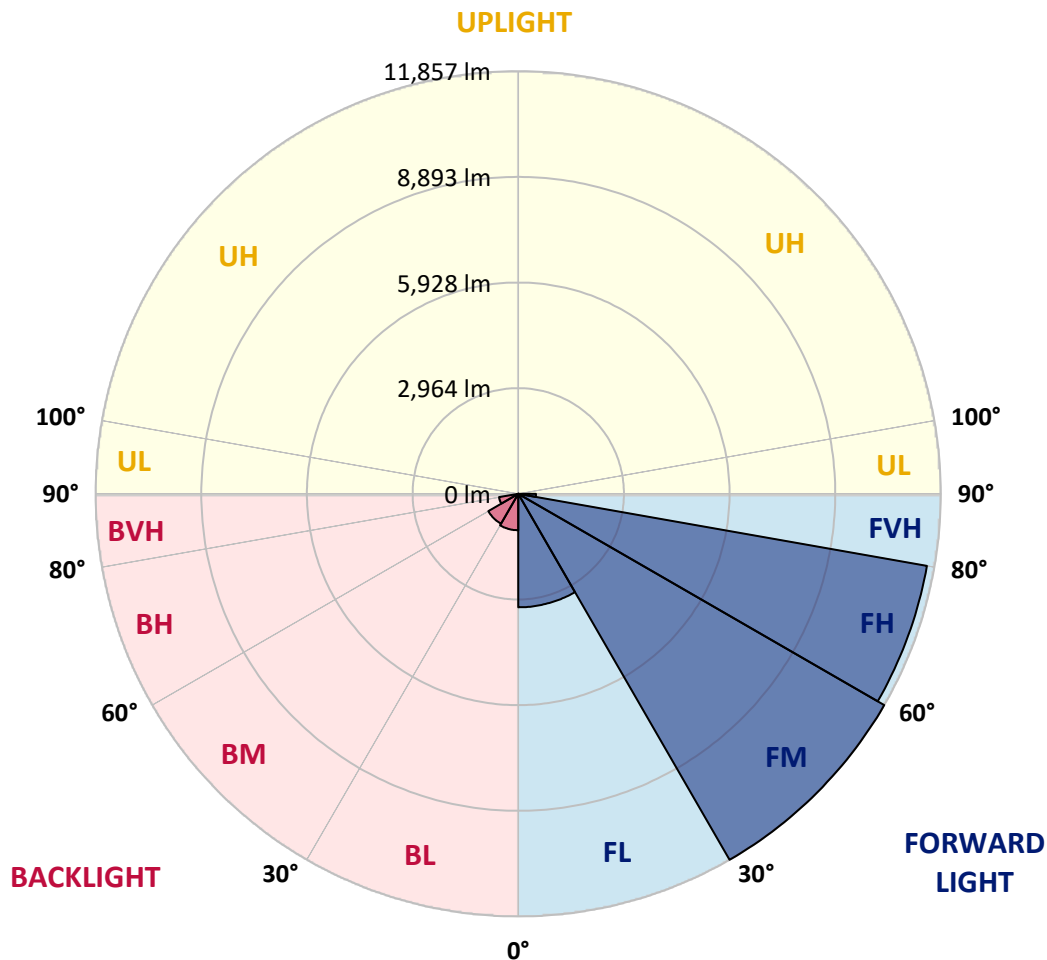


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.9	10.7			
FM (30°-60°)	11856.9	39.9			
FH (60°-80°)	11642.8	39.2			G4/12000
FVH (80°-90°)	495.6	1.7			G3/500
BL (0°-30°)	1021.9	3.4	B3/2500		
BM (30°-60°)	970.4	3.3	B1/1000		
BH (60°-80°)	547.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0
2.5°	9507.9	9484.5	9475.8	9461.0	9404.2	9348.5	9238.5	9207.6	9138.4	8974.1	8799.8
5°	9515.4	9514.2	9540.1	9533.9	9514.2	9488.2	9409.1	9368.3	9250.9	9016.1	8697.2
7.5°	9056.9	9080.4	9138.4	9185.3	9239.7	9310.2	9320.1	9280.5	9184.1	8930.7	8508.1
10°	8441.3	8478.5	8560.0	8652.7	8794.8	8935.7	9061.8	9056.9	9023.4	8773.8	8280.7
12.5°	7824.6	7867.9	7961.8	8099.0	8300.5	8530.4	8755.2	8786.2	8841.8	8632.9	8070.6
15°	7284.5	7321.6	7414.3	7582.4	7832.1	8141.1	8471.0	8527.9	8671.2	8522.9	7895.1
17.5°	6826.0	6849.5	6917.5	7104.1	7393.3	7767.8	8196.7	8307.9	8521.7	8436.4	7743.0
20°	6505.9	6509.7	6554.1	6685.1	6974.3	7393.3	7912.4	8071.9	8363.5	8362.2	7586.1
22.5°	6347.7	6335.4	6344.0	6419.4	6632.0	7036.1	7628.2	7817.2	8221.4	8299.3	7426.7
25°	6318.0	6308.2	6283.5	6293.3	6421.9	6723.4	7341.3	7560.2	8096.5	8260.9	7288.2
27.5°	6410.7	6420.6	6378.6	6334.2	6344.0	6520.7	7086.7	7340.1	7995.2	8260.9	7190.6
30°	6597.4	6602.3	6571.4	6513.3	6435.4	6463.9	6910.0	7163.4	7944.5	8317.8	7128.8
32.5°	6803.7	6830.9	6827.2	6780.3	6669.0	6554.1	6868.0	7099.1	7940.8	8443.8	7122.6
35°	7059.6	7090.5	7142.4	7132.5	7016.3	6827.2	7011.4	7193.0	8013.7	8651.5	7189.4
37.5°	7331.5	7378.5	7489.7	7542.8	7467.5	7253.7	7332.8	7462.5	8209.0	8987.7	7358.7
40°	7594.7	7647.9	7850.6	8059.5	8002.6	7782.6	7819.7	7923.5	8556.3	9470.9	7680.1
42.5°	7853.0	7932.1	8230.0	8573.6	8641.6	8466.1	8485.8	8568.7	9071.7	10135.8	8205.3
45°	8162.0	8251.0	8692.3	9116.2	9297.9	9221.2	9305.2	9359.6	9745.3	11014.5	8913.5
47.5°	8615.6	8718.2	9259.6	9742.8	10061.6	10111.1	10280.4	10316.2	10596.8	12037.9	9836.7
50°	9500.6	9529.0	10018.4	10457.2	10916.9	11213.5	11406.3	11433.5	11627.6	13156.4	10989.8
52.5°	10614.1	10632.7	10909.5	11203.6	11726.4	12332.0	12783.2	12821.4	12862.3	14246.5	12128.1
55°	11720.3	11717.8	11900.7	12073.7	12671.9	13551.9	14530.7	14554.2	14261.3	15280.9	12998.2
57.5°	12411.1	12477.9	12756.0	12978.4	13813.9	14942.3	16300.6	16387.1	15730.9	16047.2	13858.4
60°	12191.2	12223.3	12840.0	13663.1	15236.5	16918.6	18091.5	18113.7	16835.8	16812.3	14946.0
62.5°	10386.7	10404.0	11373.0	13069.9	15957.0	19481.8	20251.8	19889.8	18106.3	17873.9	16247.5
65°	7118.9	7231.4	8040.9	10138.3	14633.3	21089.8	23596.3	22996.8	20043.0	19404.0	17424.0
67.5°	4192.2	4168.8	4569.2	6114.1	10747.6	20021.9	27826.8	27231.1	22684.1	20428.6	17079.3
70°	2863.7	2847.6	3000.8	3701.6	6067.2	15531.9	29157.9	30360.4	25016.3	19738.9	14698.8
72.5°	2044.2	2052.9	2279.0	2876.0	3809.1	9049.4	25074.4	27920.7	24285.9	17207.7	11172.7
75°	1387.9	1411.4	1735.2	2359.4	3339.5	4603.8	17793.6	21224.5	19776.0	12506.3	6421.9
77.5°	746.5	772.4	1154.4	1900.8	3019.3	3198.6	11445.9	14607.4	12422.3	5622.3	1861.3
80°	311.4	326.3	540.1	1381.8	2609.1	2809.3	6734.5	8857.9	5293.4	1108.6	415.3
82.5°	134.7	142.2	225.0	824.3	1950.3	2371.7	3565.7	4261.5	1604.2	243.5	208.9
85°	26.0	27.2	92.7	436.2	1244.5	1338.5	2311.2	2265.4	720.6	105.1	152.0
87.5°	0.0	0.0	22.3	137.2	365.8	729.2	1410.2	1392.8	244.7	50.7	56.8
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°	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0	8780.0
2.5°	8710.8	8625.5	8446.3	8225.1	8055.7	7869.2	7720.9	7533.0	7451.4	7455.1	7410.6
5°	8515.6	8340.1	7943.3	7442.7	7057.1	6659.2	6316.8	5975.7	5774.2	5708.7	5646.9
7.5°	8236.2	7958.1	7325.3	6554.1	5901.5	5263.8	4708.9	4220.7	3911.7	3760.9	3705.3
10°	7921.0	7530.4	6614.6	5598.7	4666.9	3804.2	3084.8	2459.5	2209.8	2040.6	1997.2
12.5°	7644.2	7115.3	5920.1	4618.6	3512.5	2471.9	1785.9	1396.6	1227.3	1160.5	1149.4
15°	7383.4	6727.2	5251.4	3731.2	2432.3	1521.4	1135.8	1003.6	964.1	952.9	952.9
17.5°	7137.4	6357.6	4597.7	2857.4	1609.2	1066.6	940.6	910.9	898.5	897.3	898.5
20°	6880.4	5988.1	3955.0	2093.7	1123.4	903.4	868.9	852.8	849.1	849.1	849.1
22.5°	6634.5	5618.5	3329.5	1495.5	901.0	824.3	807.1	795.9	792.2	791.0	788.6
25°	6398.3	5267.5	2719.0	1056.7	791.0	755.1	740.3	725.5	714.4	708.2	704.4
27.5°	6204.3	4954.8	2150.5	847.8	714.4	683.5	664.9	642.7	615.5	603.2	598.1
30°	6049.8	4669.3	1657.4	715.6	642.7	611.7	583.3	545.0	505.5	484.5	483.3
32.5°	5928.7	4388.8	1258.1	632.8	578.4	540.1	499.3	451.1	405.4	381.9	380.6
35°	5869.4	4141.6	961.5	572.2	521.6	473.3	422.6	369.5	325.0	302.8	300.3
37.5°	5909.0	3932.7	750.2	521.6	473.3	417.7	358.5	302.8	263.3	243.5	242.2
40°	6053.6	3799.2	609.3	478.3	432.6	364.6	300.3	248.4	215.1	199.0	197.8
42.5°	6361.3	3749.8	520.4	442.5	393.0	315.1	249.7	205.1	174.3	163.1	160.7
45°	6875.5	3822.7	459.7	407.8	352.2	268.2	206.4	168.1	140.8	132.3	131.0
47.5°	7560.2	4014.3	416.5	374.5	315.1	226.2	171.8	135.9	115.0	106.3	105.1
50°	8442.6	4318.3	380.6	341.1	280.6	191.5	142.2	107.5	89.0	82.8	82.8
52.5°	9402.9	4680.5	348.5	310.2	245.9	159.4	115.0	82.8	70.4	63.1	63.1
55°	10196.3	4996.8	313.9	286.7	203.9	132.3	87.8	63.1	51.9	48.2	48.2
57.5°	10988.6	5334.2	274.3	245.9	163.1	107.5	66.7	46.9	38.3	35.9	35.9
60°	12015.7	5747.1	236.1	200.2	128.6	81.6	49.5	33.3	28.4	27.2	27.2
62.5°	13145.3	5989.3	201.5	160.7	100.1	60.6	35.9	22.3	21.1	21.1	19.7
65°	13836.2	5646.9	169.4	128.6	77.9	45.7	23.5	16.0	18.5	17.3	14.8
67.5°	12954.9	4420.9	138.4	100.1	60.6	34.6	14.8	11.1	19.7	16.0	12.4
70°	10726.6	3094.8	107.5	70.4	48.2	29.6	9.9	7.5	21.1	16.0	9.9
72.5°	8027.3	2071.4	85.2	46.9	35.9	26.0	8.7	3.7	18.5	13.6	8.7
75°	4386.3	834.3	68.0	29.6	22.3	18.5	6.1	2.5	12.4	9.9	6.1
77.5°	1154.4	220.0	49.5	19.7	12.4	7.5	3.7	1.2	6.1	4.9	2.5
80°	294.2	85.2	32.1	13.6	8.7	3.7	0.0	0.0	1.2	0.0	0.0
82.5°	157.0	35.9	19.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	118.7	23.5	11.1	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.7	7.5	3.7	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)