

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: P323642

Luminaire Tested: **GLEON-SA8B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323642
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-SA8B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 28764 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

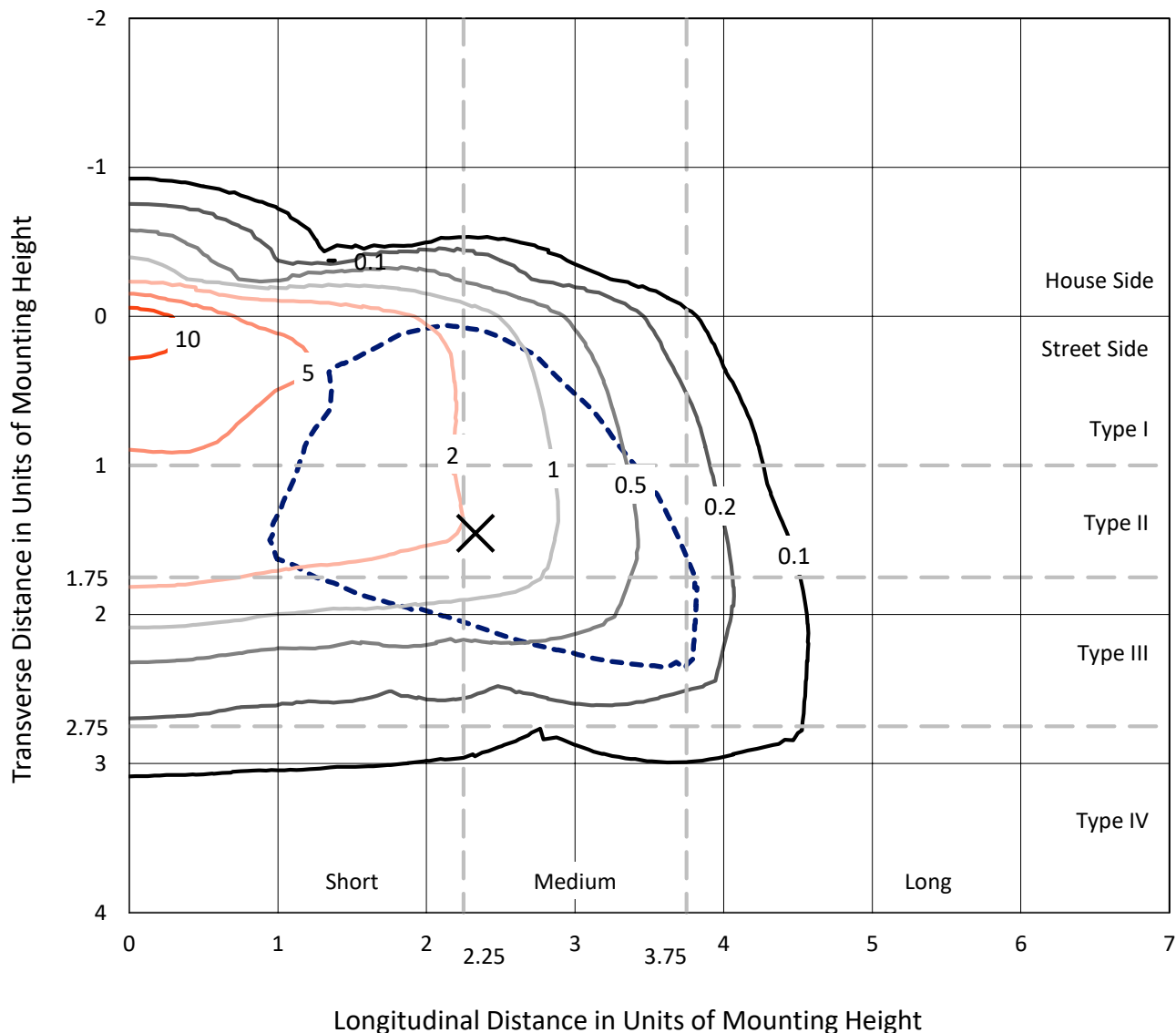
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

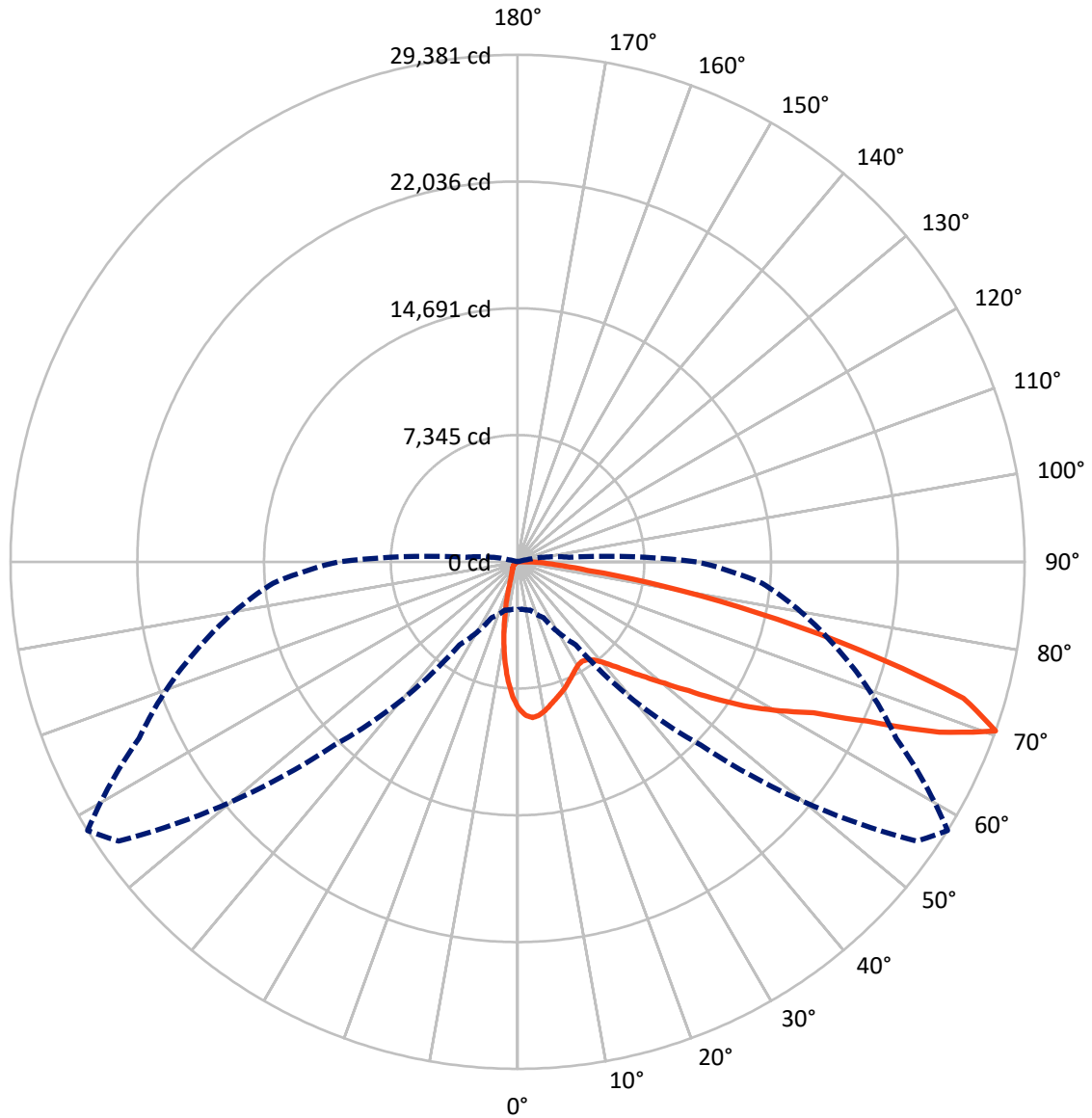
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	2461.6	0.0	2461.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	26302.4	0.0	26302.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	28764.0	0.0	28764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.8	2.4
10°-20°	1458.3	5.1
20°-30°	1917.1	6.7
30°-40°	2539.0	8.8
40°-50°	3795.0	13.2
50°-60°	6079.5	21.1
60°-70°	7663.1	26.6
70°-80°	4133.4	14.4
80°-90°	483.8	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°	28764.0	100.0
0°-180°	28764.0	100.0

Coefficient of Utilization

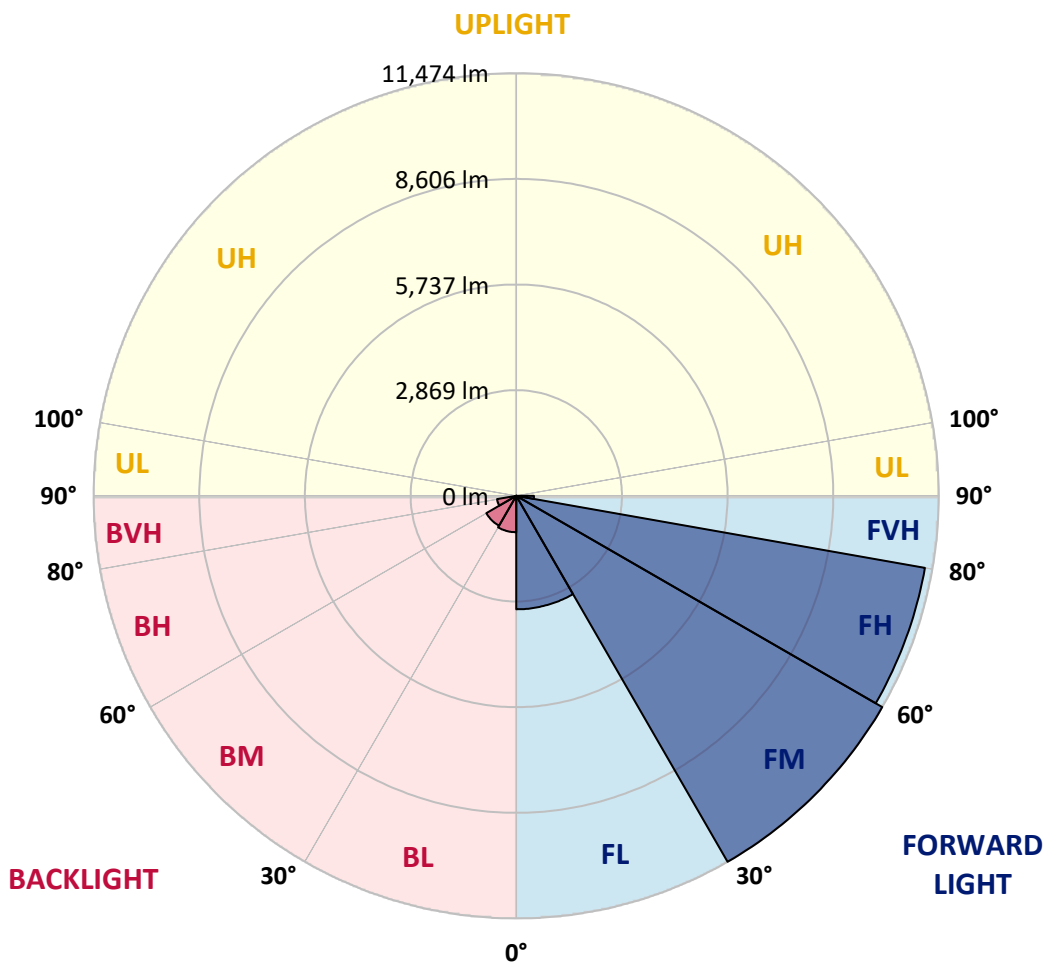


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.2	10.7			
FM (30°-60°)	11474.4	39.9			
FH (60°-80°)	11267.2	39.2			G4/12000
FVH (80°-90°)	479.7	1.7			G3/500
BL (0°-30°)	989.0	3.4	B2/1000		
BM (30°-60°)	939.1	3.3	B1/1000		
BH (60°-80°)	529.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	55°	58°	65°	75°	85°
0°	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7
2.5°	9201.2	9178.5	9170.1	9155.8	9100.8	9046.9	8940.5	8910.6	8843.6	8684.5	8515.9
5°	9208.4	9207.2	9232.3	9226.3	9207.2	9182.1	9105.5	9066.1	8952.4	8725.2	8416.6
7.5°	8764.7	8787.4	8843.6	8889.1	8941.7	9009.9	9019.4	8981.2	8887.9	8642.7	8233.6
10°	8169.0	8204.9	8283.9	8373.6	8511.1	8647.5	8769.4	8764.7	8732.4	8490.8	8013.5
12.5°	7572.2	7614.1	7705.0	7837.7	8032.7	8255.1	8472.8	8502.7	8556.6	8354.4	7810.2
15°	7049.5	7085.4	7175.1	7337.8	7579.4	7878.4	8197.7	8252.8	8391.5	8248.0	7640.4
17.5°	6605.8	6628.5	6694.3	6874.9	7154.8	7517.2	7932.2	8039.9	8246.8	8164.2	7493.3
20°	6296.0	6299.6	6342.7	6469.4	6749.3	7154.8	7657.1	7811.4	8093.7	8092.5	7341.4
22.5°	6142.9	6131.0	6139.3	6212.3	6418.0	6809.1	7382.0	7565.0	7956.1	8031.5	7187.1
25°	6114.2	6104.6	6080.7	6090.3	6214.7	6506.5	7104.5	7316.2	7835.3	7994.4	7053.1
27.5°	6203.9	6213.5	6172.8	6129.8	6139.3	6310.4	6858.2	7103.3	7737.3	7994.4	6958.6
30°	6384.5	6389.3	6359.4	6303.2	6227.8	6255.3	6687.1	6932.3	7688.2	8049.4	6898.8
32.5°	6584.3	6610.6	6607.0	6561.5	6453.9	6342.7	6646.5	6870.1	7684.6	8171.4	6892.8
35°	6831.8	6861.7	6912.0	6902.4	6790.0	6607.0	6785.2	6961.0	7755.2	8372.4	6957.4
37.5°	7095.0	7140.4	7248.1	7299.5	7226.5	7019.6	7096.2	7221.8	7944.2	8697.7	7121.3
40°	7349.7	7401.2	7597.3	7799.5	7744.4	7531.5	7567.4	7667.9	8280.3	9165.3	7432.3
42.5°	7599.7	7676.3	7964.5	8297.0	8362.8	8193.0	8212.1	8292.2	8779.0	9808.8	7940.6
45°	7898.7	7984.8	8411.8	8822.1	8997.9	8923.7	9005.1	9057.7	9430.9	10659.2	8625.9
47.5°	8337.7	8436.9	8960.8	9428.5	9737.1	9784.9	9948.8	9983.4	10254.9	11649.5	9519.4
50°	9194.0	9221.6	9695.2	10119.8	10564.7	10851.8	11038.4	11064.7	11252.5	12732.0	10635.3
52.5°	10271.7	10289.6	10557.5	10842.2	11348.1	11934.2	12370.8	12407.8	12447.3	13786.9	11736.9
55°	11342.2	11339.8	11516.8	11684.2	12263.1	13114.7	14062.0	14084.7	13801.2	14788.0	12578.9
57.5°	12010.7	12075.3	12344.4	12559.7	13368.3	14460.3	15774.7	15858.4	15223.3	15529.5	13411.3
60°	11797.9	11828.9	12425.8	13222.3	14744.9	16372.7	17507.8	17529.3	16292.6	16269.9	14463.9
62.5°	10051.6	10068.4	11006.1	12648.2	15442.2	18853.4	19598.5	19248.1	17522.2	17297.3	15723.3
65°	6889.3	6998.1	7781.5	9811.2	14161.2	20409.4	22835.0	22254.9	19396.4	18778.0	16861.9
67.5°	4057.0	4034.3	4421.8	5916.9	10400.9	19376.0	26929.1	26352.6	21952.3	19769.5	16528.2
70°	2771.3	2755.7	2904.0	3582.2	5871.4	15030.8	28217.2	29381.0	24209.3	19102.1	14224.6
72.5°	1978.3	1986.6	2205.5	2783.2	3686.2	8757.5	24265.5	27020.0	23502.4	16652.6	10812.3
75°	1343.2	1365.9	1679.3	2283.3	3231.7	4455.3	17219.6	20539.8	19138.0	12102.8	6214.7
77.5°	722.4	747.5	1117.1	1839.5	2922.0	3095.4	11076.6	14136.1	12021.5	5440.8	1801.3
80°	301.4	315.8	522.7	1337.2	2524.9	2718.6	6517.3	8572.1	5122.7	1072.9	401.9
82.5°	130.4	137.5	217.7	797.8	1887.4	2295.2	3450.6	4124.0	1552.5	235.6	202.1
85°	25.1	26.3	89.7	422.2	1204.4	1295.3	2236.6	2192.4	697.3	101.7	147.1
87.5°	0.0	0.0	21.5	132.8	354.0	705.7	1364.7	1347.9	236.8	49.0	55.0
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°	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7	8496.7
2.5°	8429.8	8347.2	8173.8	7959.7	7795.9	7615.3	7471.7	7289.9	7211.0	7214.6	7171.5
5°	8240.8	8071.0	7687.0	7202.6	6829.5	6444.3	6113.0	5782.9	5588.0	5524.6	5464.8
7.5°	7970.5	7701.4	7089.0	6342.7	5711.1	5094.0	4557.0	4084.5	3785.5	3639.6	3585.8
10°	7665.5	7287.5	6401.3	5418.1	4516.3	3681.4	2985.3	2380.1	2138.5	1974.7	1932.8
12.5°	7397.6	6885.7	5729.1	4469.6	3399.2	2392.1	1728.3	1351.5	1187.7	1123.1	1112.3
15°	7145.2	6510.1	5082.0	3610.9	2353.8	1472.3	1099.2	971.2	932.9	922.2	922.2
17.5°	6907.2	6152.5	4449.3	2765.3	1557.3	1032.2	910.2	881.5	869.5	868.3	869.5
20°	6658.4	5794.9	3827.4	2026.1	1087.2	874.3	840.8	825.3	821.7	821.7	821.7
22.5°	6420.4	5437.2	3222.2	1447.2	871.9	797.8	781.0	770.3	766.7	765.5	763.1
25°	6192.0	5097.6	2631.3	1022.6	765.5	730.8	716.4	702.1	691.3	685.3	681.7
27.5°	6004.2	4795.0	2081.1	820.5	691.3	661.4	643.5	621.9	595.6	583.7	578.9
30°	5854.7	4518.7	1603.9	692.5	621.9	592.0	564.5	527.5	489.2	468.9	467.7
32.5°	5737.5	4247.2	1217.6	612.4	559.8	522.7	483.2	436.6	392.3	369.6	368.4
35°	5680.0	4008.0	930.5	553.8	504.7	458.1	409.0	357.6	314.6	293.0	290.6
37.5°	5718.3	3805.8	726.0	504.7	458.1	404.3	346.9	293.0	254.8	235.6	234.4
40°	5858.3	3676.7	589.7	462.9	418.6	352.8	290.6	240.4	208.1	192.6	191.4
42.5°	6156.1	3628.8	503.5	428.2	380.3	305.0	241.6	198.5	168.6	157.9	155.5
45°	6653.6	3699.4	444.9	394.7	340.9	259.5	199.7	162.7	136.3	128.0	126.8
47.5°	7316.2	3884.8	403.1	362.4	305.0	218.9	166.3	131.6	111.2	102.9	101.7
50°	8170.2	4179.0	368.4	330.1	271.5	185.4	137.5	104.1	86.1	80.1	80.1
52.5°	9099.6	4529.4	337.3	300.2	238.0	154.3	111.2	80.1	68.2	61.0	61.0
55°	9867.4	4835.6	303.8	277.5	197.3	128.0	84.9	61.0	50.2	46.6	46.6
57.5°	10634.1	5162.2	265.5	238.0	157.9	104.1	64.6	45.4	37.1	34.7	34.7
60°	11628.0	5561.6	228.4	193.8	124.4	78.9	47.8	32.3	27.5	26.3	26.3
62.5°	12721.2	5796.1	195.0	155.5	96.9	58.6	34.7	21.5	20.3	20.3	19.1
65°	13389.8	5464.8	163.9	124.4	75.4	44.3	22.7	15.5	17.9	16.7	14.4
67.5°	12537.0	4278.3	134.0	96.9	58.6	33.5	14.4	10.8	19.1	15.5	12.0
70°	10380.5	2994.9	104.1	68.2	46.6	28.7	9.6	7.2	20.3	15.5	9.6
72.5°	7768.4	2004.6	82.5	45.4	34.7	25.1	8.4	3.6	17.9	13.2	8.4
75°	4244.8	807.3	65.8	28.7	21.5	17.9	6.0	2.4	12.0	9.6	6.0
77.5°	1117.1	212.9	47.8	19.1	12.0	7.2	3.6	1.2	6.0	4.8	2.4
80°	284.7	82.5	31.1	13.2	8.4	3.6	0.0	0.0	1.2	0.0	0.0
82.5°	151.9	34.7	19.1	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	114.8	22.7	10.8	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.3	7.2	3.6	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)