

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: P323653

Luminaire Tested: **GLEON-SA9C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323653
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-SA9C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 39712 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

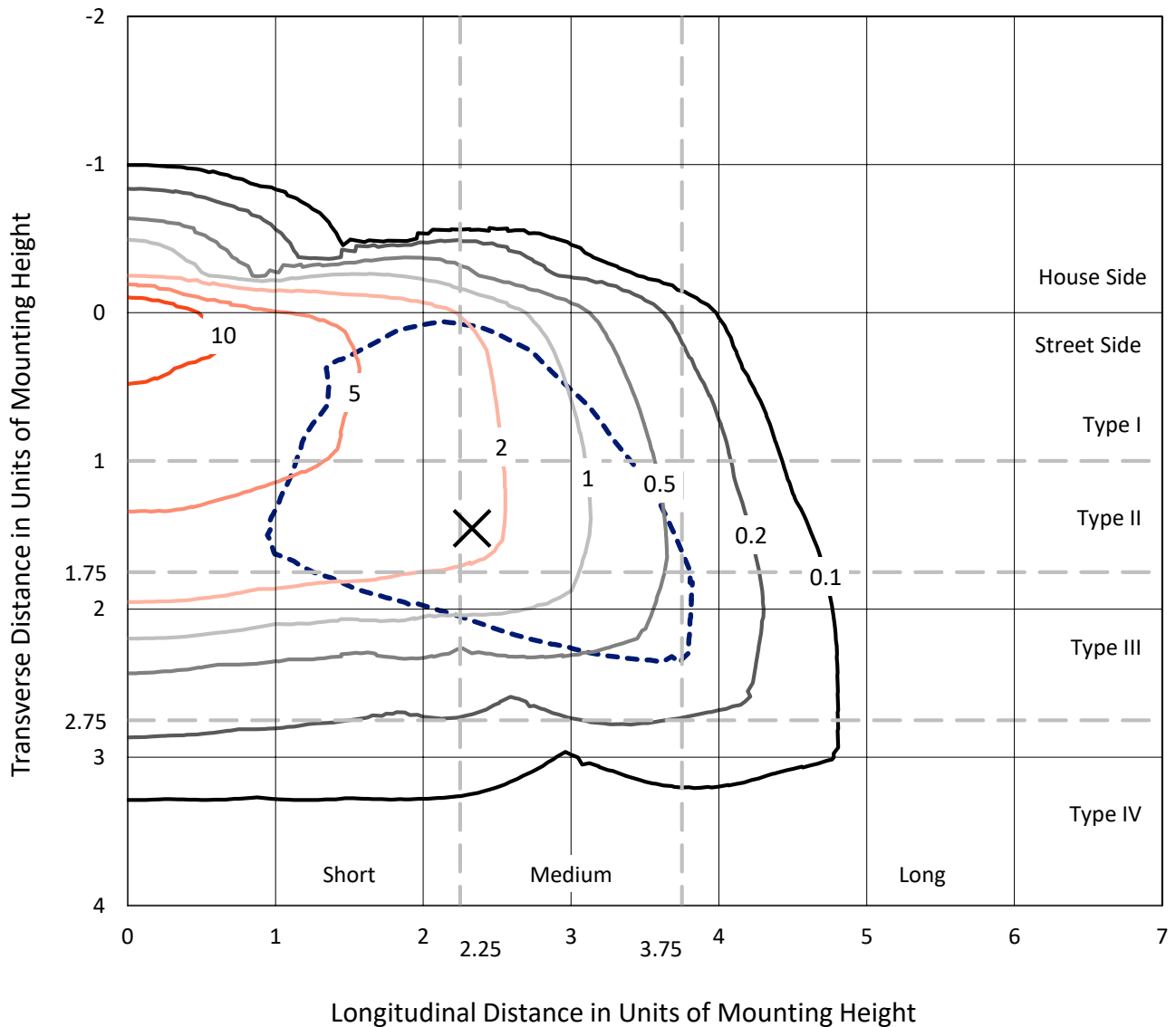
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

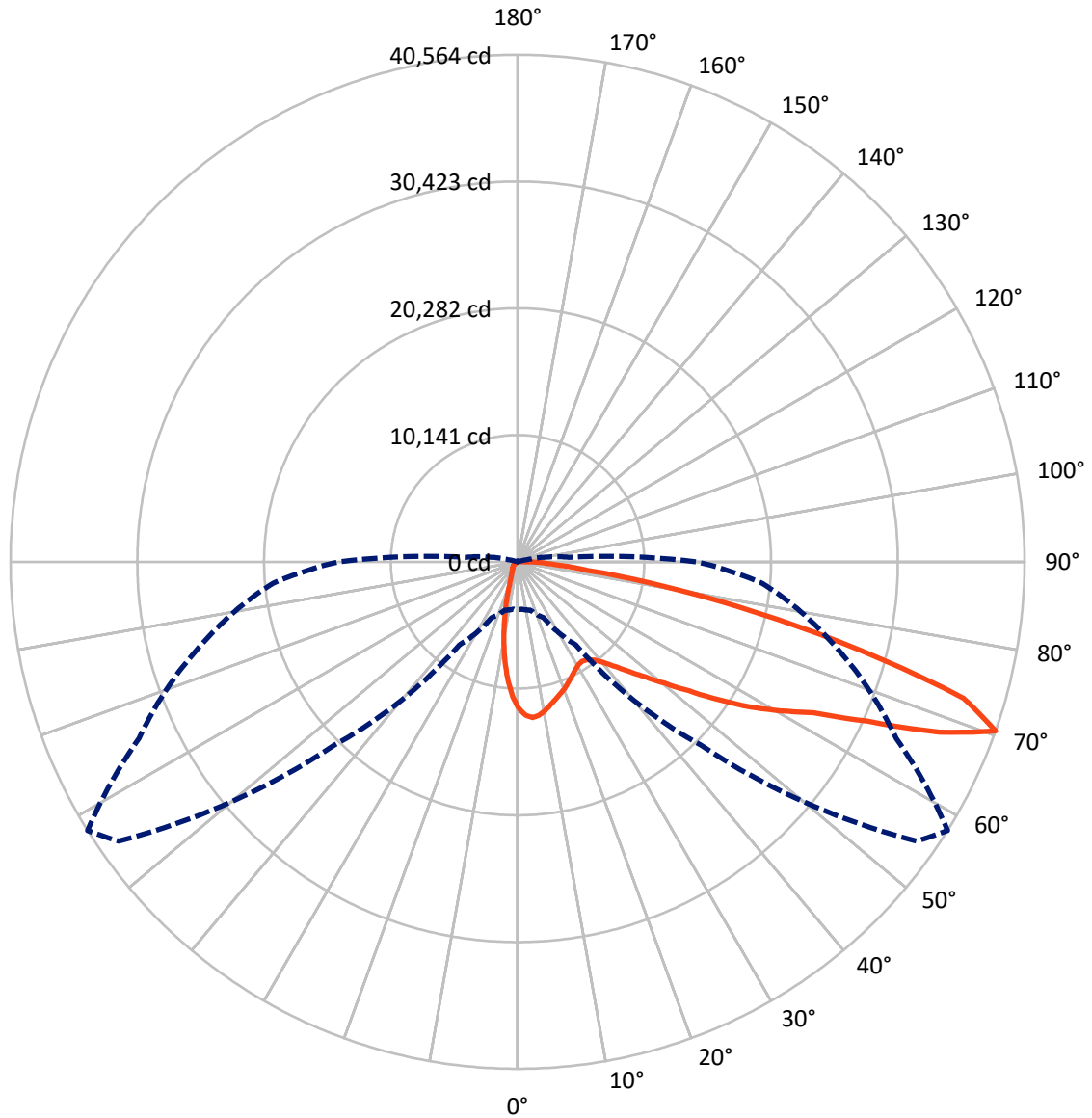
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	3398.5	0.0	3398.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	36313.5	0.0	36313.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	39712.0	0.0	39712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.3	2.4
10°-20°	2013.3	5.1
20°-30°	2646.8	6.7
30°-40°	3505.4	8.8
40°-50°	5239.4	13.2
50°-60°	8393.4	21.1
60°-70°	10579.8	26.6
70°-80°	5706.7	14.4
80°-90°	668.0	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°	39712.0	100.0
0°-180°	39712.0	100.0

Coefficient of Utilization



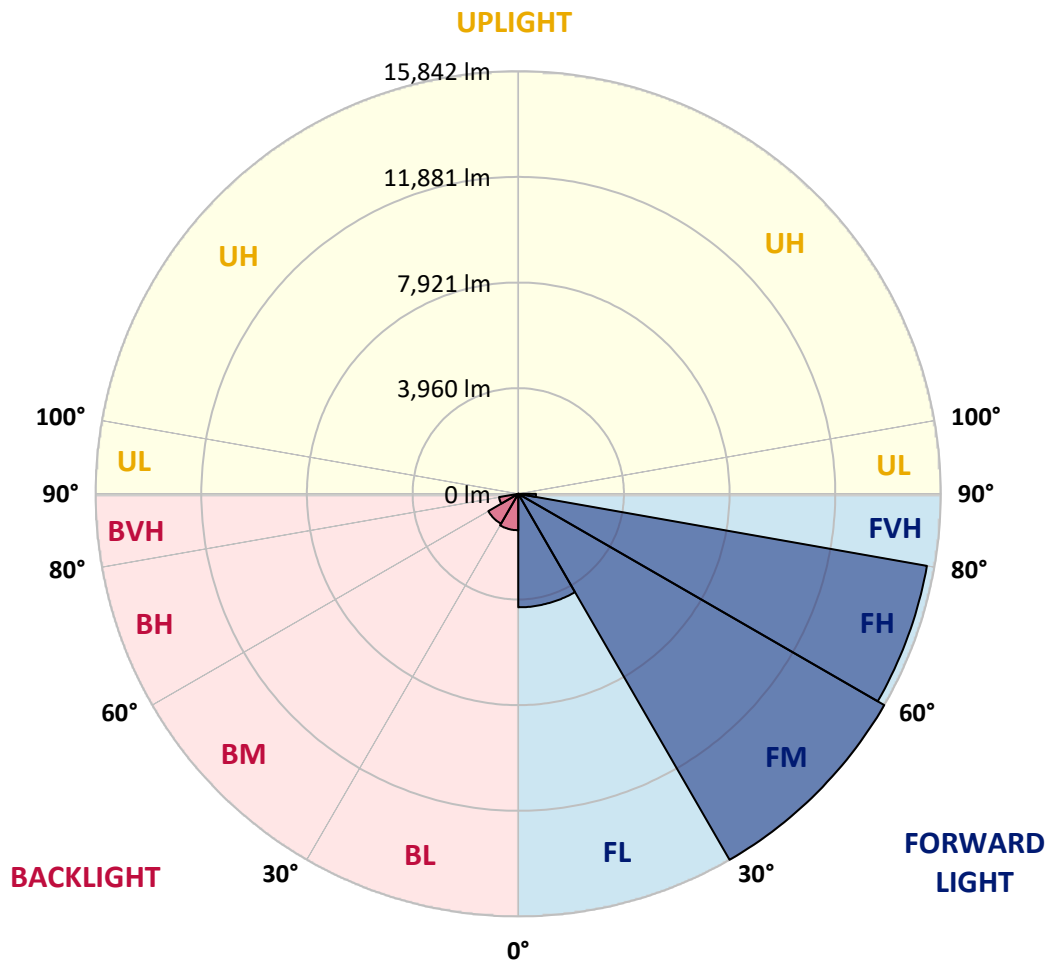
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4254.0	10.7			
FM (30°-60°)	15841.7	39.9			
FH (60°-80°)	15555.6	39.2			G5
FVH (80°-90°)	662.2	1.7			G4/750
BL (0°-30°)	1365.4	3.4	B3/2500		
BM (30°-60°)	1296.5	3.3	B2/2500		
BH (60°-80°)	730.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7
2.5°	12703.3	12672.0	12660.4	12640.6	12564.6	12490.3	12343.4	12302.1	12209.6	11990.0	11757.2
5°	12713.3	12711.6	12746.3	12738.0	12711.6	12676.9	12571.2	12516.7	12359.9	12046.1	11620.1
7.5°	12100.6	12132.0	12209.6	12272.4	12345.0	12439.1	12452.3	12399.5	12270.7	11932.2	11367.5
10°	11278.3	11327.8	11436.8	11560.7	11750.6	11938.8	12107.2	12100.6	12056.0	11722.5	11063.6
12.5°	10454.3	10512.1	10637.6	10820.9	11090.0	11397.2	11697.7	11739.0	11813.3	11534.2	10782.9
15°	9732.7	9782.2	9906.1	10130.6	10464.2	10877.0	11317.9	11393.9	11585.4	11387.3	10548.4
17.5°	9120.1	9151.4	9242.2	9491.6	9878.0	10378.3	10951.3	11099.9	11385.6	11271.7	10345.3
20°	8692.4	8697.3	8756.8	8931.8	9318.2	9878.0	10571.5	10784.5	11174.3	11172.6	10135.6
22.5°	8481.0	8464.5	8476.1	8576.8	8860.8	9400.8	10191.7	10444.4	10984.4	11088.4	9922.6
25°	8441.4	8428.2	8395.1	8408.3	8580.1	8983.0	9808.6	10100.9	10817.6	11037.2	9737.6
27.5°	8565.2	8578.4	8522.3	8462.8	8476.1	8712.2	9468.5	9807.0	10682.2	11037.2	9607.2
30°	8814.6	8821.2	8779.9	8702.3	8598.2	8636.2	9232.3	9570.9	10614.5	11113.2	9524.6
32.5°	9090.3	9126.7	9121.7	9059.0	8910.3	8756.8	9176.2	9485.0	10609.5	11281.6	9516.4
35°	9432.1	9473.4	9542.8	9529.6	9374.4	9121.7	9367.7	9610.5	10706.9	11559.0	9605.5
37.5°	9795.4	9858.2	10006.8	10077.8	9977.1	9691.4	9797.1	9970.5	10967.8	12008.2	9831.8
40°	10147.2	10218.2	10489.0	10768.0	10692.1	10398.1	10447.7	10586.4	11431.9	12653.8	10261.1
42.5°	10492.3	10598.0	10995.9	11455.0	11545.8	11311.3	11337.7	11448.4	12120.4	13542.2	10962.9
45°	10905.1	11024.0	11613.5	12179.9	12422.6	12320.2	12432.5	12505.2	13020.4	14716.3	11909.1
47.5°	11511.1	11648.2	12371.4	13017.1	13443.1	13509.2	13735.4	13783.3	14158.1	16083.5	13142.6
50°	12693.4	12731.4	13385.3	13971.5	14585.8	14982.1	15239.7	15276.0	15535.3	17577.9	14683.2
52.5°	14181.2	14206.0	14575.9	14968.9	15667.4	16476.5	17079.3	17130.4	17184.9	19034.4	16204.1
55°	15659.1	15655.8	15900.2	16131.4	16930.6	18106.4	19414.2	19445.5	19054.2	20416.5	17366.6
57.5°	16582.2	16671.4	17042.9	17340.2	18456.4	19964.0	21778.8	21894.4	21017.6	21440.3	18515.9
60°	16288.3	16331.2	17155.2	18255.0	20357.1	22604.5	24171.5	24201.2	22493.8	22462.4	19969.0
62.5°	13877.4	13900.5	15195.1	17462.4	21319.8	26029.2	27058.0	26574.1	24191.3	23880.9	21707.8
65°	9511.4	9661.7	10743.3	13545.5	19551.2	28177.5	31526.4	30725.5	26778.9	25925.2	23279.8
67.5°	5601.2	5569.8	6104.8	8168.9	14359.6	26750.8	37178.7	36382.8	30307.7	27294.1	22819.1
70°	3826.0	3804.6	4009.3	4945.6	8106.2	20751.7	38957.1	40563.8	33423.7	26372.7	19638.7
72.5°	2731.2	2742.8	3045.0	3842.5	5089.3	12090.7	33501.3	37304.2	32447.8	22990.9	14927.6
75°	1854.4	1885.8	2318.4	3152.3	4461.8	6151.0	23773.6	28357.5	26422.2	16709.4	8580.1
77.5°	997.4	1032.1	1542.3	2539.7	4034.1	4273.5	15292.6	19516.6	16597.1	7511.7	2486.8
80°	416.1	435.9	721.6	1846.1	3485.9	3753.4	8997.9	11834.8	7072.5	1481.2	554.8
82.5°	180.0	189.9	300.5	1101.4	2605.7	3168.8	4764.0	5693.6	2143.4	325.3	279.1
85°	34.7	36.3	123.8	582.9	1662.8	1788.3	3087.9	3026.8	962.7	140.4	203.1
87.5°	0.0	0.0	29.7	183.3	488.8	974.3	1884.1	1861.0	327.0	67.7	76.0
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°	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7
2.5°	11638.3	11524.3	11284.9	10989.3	10763.1	10513.7	10315.6	10064.6	9955.6	9960.6	9901.1
5°	11377.4	11142.9	10612.8	9944.0	9428.8	8897.1	8439.7	7984.0	7714.8	7627.3	7544.7
7.5°	11004.2	10632.6	9787.2	8756.8	7884.9	7032.8	6291.4	5639.1	5226.3	5024.9	4950.6
10°	10583.1	10061.3	8837.7	7480.3	6235.3	5082.7	4121.6	3286.1	2952.5	2726.3	2668.5
12.5°	10213.2	9506.5	7909.7	6170.9	4693.0	3302.6	2386.1	1866.0	1639.7	1550.6	1535.7
15°	9864.8	8988.0	7016.3	4985.2	3249.7	2032.7	1517.5	1340.8	1288.0	1273.1	1273.1
17.5°	9536.2	8494.2	6142.8	3817.8	2150.0	1425.1	1256.6	1217.0	1200.5	1198.8	1200.5
20°	9192.7	8000.5	5284.1	2797.3	1501.0	1207.1	1160.9	1139.4	1134.4	1134.4	1134.4
22.5°	8864.1	7506.7	4448.6	1998.1	1203.8	1101.4	1078.3	1063.4	1058.5	1056.8	1053.5
25°	8548.7	7037.8	3632.8	1411.8	1056.8	1008.9	989.1	969.3	954.4	946.2	941.2
27.5°	8289.5	6620.0	2873.2	1132.8	954.4	913.2	888.4	858.7	822.3	805.8	799.2
30°	8083.0	6238.6	2214.4	956.1	858.7	817.4	779.4	728.2	675.4	647.3	645.7
32.5°	7921.2	5863.7	1681.0	845.5	772.8	721.6	667.1	602.7	541.6	510.2	508.6
35°	7842.0	5533.5	1284.7	764.5	696.8	632.4	564.7	493.7	434.3	404.6	401.3
37.5°	7894.8	5254.4	1002.3	696.8	632.4	558.1	478.9	404.6	351.7	325.3	323.7
40°	8088.0	5076.1	814.1	639.0	578.0	487.1	401.3	331.9	287.3	265.9	264.2
42.5°	8499.2	5010.0	695.2	591.2	525.1	421.1	333.6	274.1	232.8	218.0	214.7
45°	9186.1	5107.4	614.3	544.9	470.6	358.3	275.8	224.6	188.2	176.7	175.0
47.5°	10100.9	5363.4	556.5	500.3	421.1	302.2	229.5	181.6	153.6	142.0	140.4
50°	11279.9	5769.6	508.6	455.8	374.8	255.9	189.9	143.7	118.9	110.6	110.6
52.5°	12563.0	6253.4	465.7	414.5	328.6	213.0	153.6	110.6	94.1	84.2	84.2
55°	13623.1	6676.1	419.4	383.1	272.5	176.7	117.2	84.2	69.4	64.4	64.4
57.5°	14681.6	7127.0	366.6	328.6	218.0	143.7	89.2	62.7	51.2	47.9	47.9
60°	16053.8	7678.5	315.4	267.5	171.7	109.0	66.1	44.6	38.0	36.3	36.3
62.5°	17563.1	8002.1	269.2	214.7	133.8	80.9	47.9	29.7	28.1	28.1	26.4
65°	18486.1	7544.7	226.2	171.7	104.0	61.1	31.4	21.5	24.8	23.1	19.8
67.5°	17308.8	5906.7	184.9	133.8	80.9	46.2	19.8	14.9	26.4	21.5	16.5
70°	14331.5	4134.8	143.7	94.1	64.4	39.6	13.2	9.9	28.1	21.5	13.2
72.5°	10725.1	2767.6	113.9	62.7	47.9	34.7	11.6	5.0	24.8	18.2	11.6
75°	5860.4	1114.6	90.8	39.6	29.7	24.8	8.3	3.3	16.5	13.2	8.3
77.5°	1542.3	293.9	66.1	26.4	16.5	9.9	5.0	1.7	8.3	6.6	3.3
80°	393.0	113.9	42.9	18.2	11.6	5.0	0.0	0.0	1.7	0.0	0.0
82.5°	209.7	47.9	26.4	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	158.5	31.4	14.9	8.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	61.1	9.9	5.0	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)