

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: P323332

Luminaire Tested: **GLEON-SA8C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34515 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

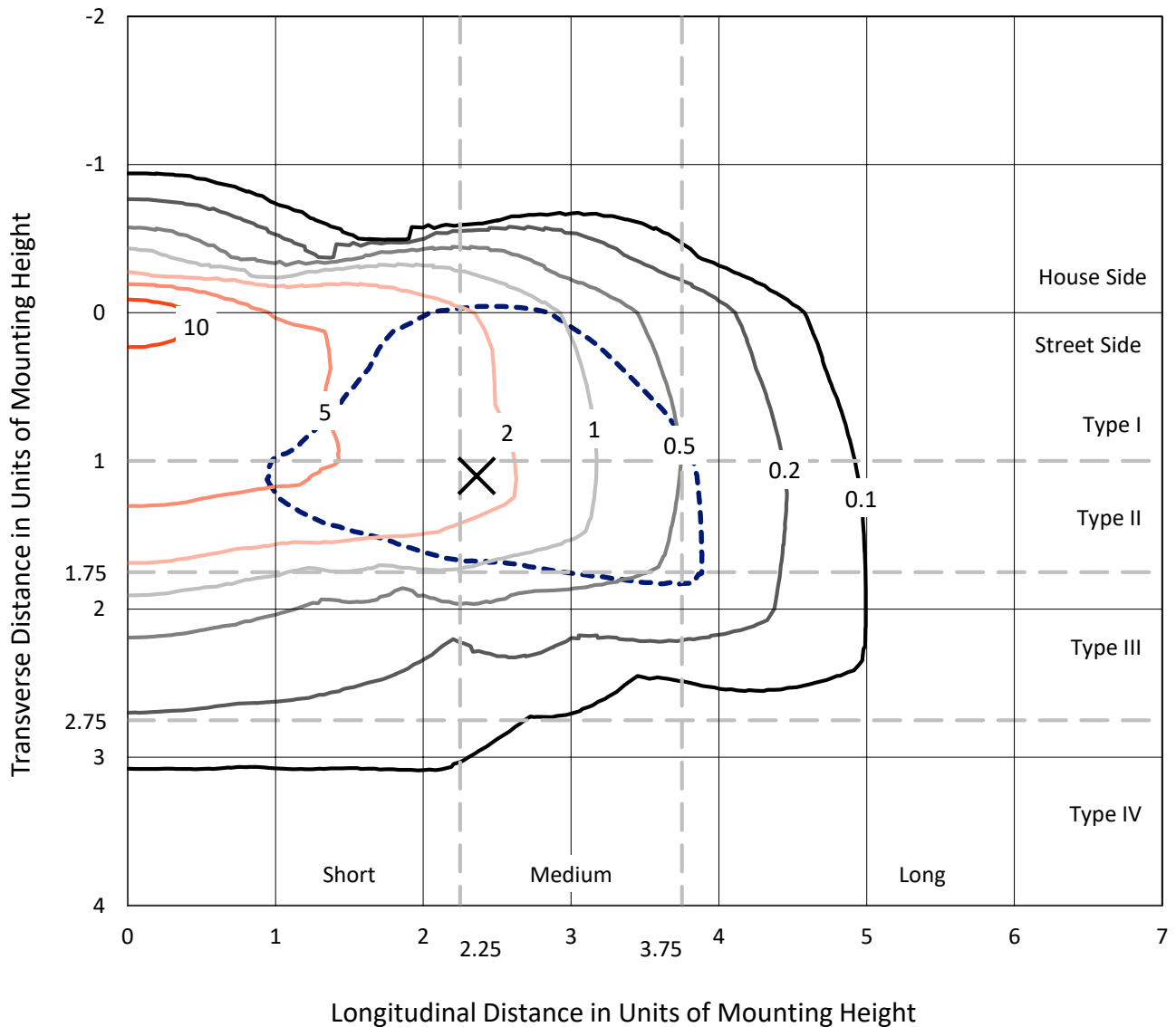
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

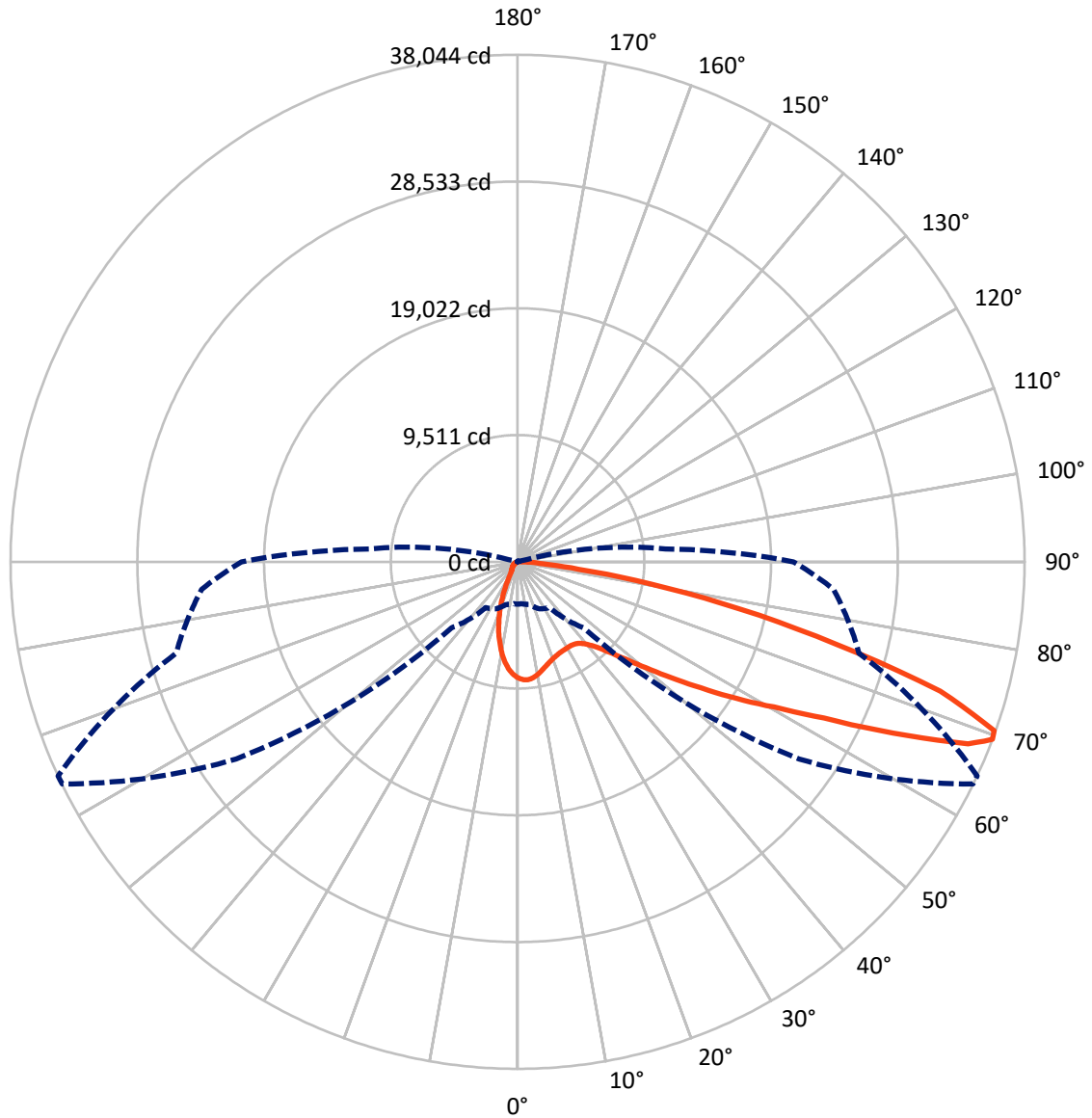
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4068.5	0.0	4068.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	30446.5	0.0	30446.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	34515.0	0.0	34515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.3	2.1
10°-20°	1596.6	4.6
20°-30°	2211.3	6.4
30°-40°	3083.2	8.9
40°-50°	4792.4	13.9
50°-60°	7693.6	22.3
60°-70°	8702.8	25.2
70°-80°	5111.2	14.8
80°-90°	594.6	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°	34515.0	100.0
0°-180°	34515.0	100.0

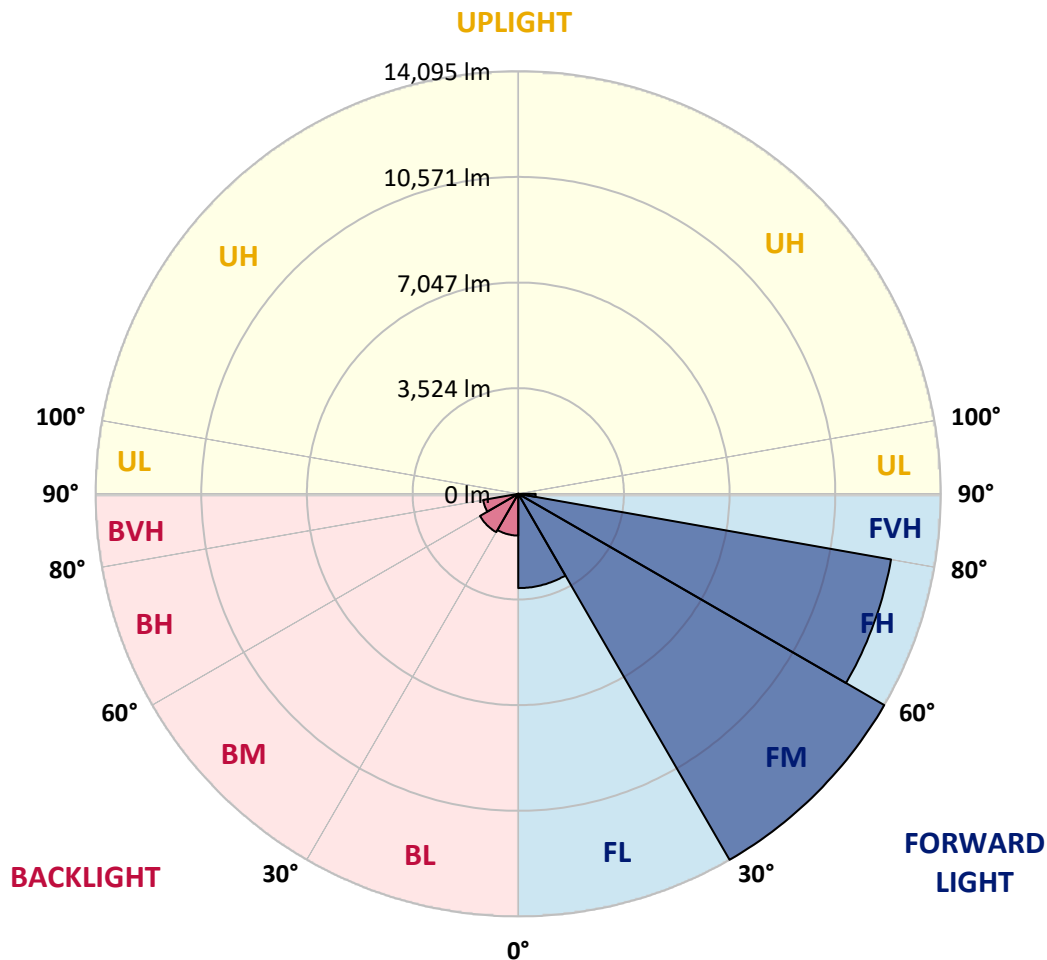


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3145.1	9.1			
FM (30°-60°)	14094.9	40.8			
FH (60°-80°)	12625.3	36.6			G5
FVH (80°-90°)	581.2	1.7			G4/750
BL (0°-30°)	1392.1	4.0	B3/2500		
BM (30°-60°)	1474.3	4.3	B2/2500		
BH (60°-80°)	1188.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.4	0.0			G1/100
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°	64°	65°	75°	85°
0°	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0
2.5°	8799.4	8777.5	8795.0	8833.0	8852.0	8852.0	8866.6	8849.1	8854.9	8812.6	8751.2
5°	8248.8	8215.2	8263.4	8370.0	8501.5	8613.9	8780.4	8868.0	8876.8	8878.3	8806.7
7.5°	7655.8	7625.2	7696.7	7822.3	7991.8	8200.6	8491.2	8745.4	8760.0	8897.3	8844.7
10°	7173.9	7152.0	7235.2	7369.6	7568.2	7801.9	8158.3	8511.7	8554.0	8857.8	8838.8
12.5°	6791.2	6773.7	6852.6	7007.4	7210.4	7468.9	7841.3	8251.7	8308.7	8768.7	8809.6
15°	6512.3	6509.4	6575.1	6724.1	6949.0	7190.0	7571.1	8010.7	8076.5	8672.3	8805.2
17.5°	6366.2	6370.6	6418.8	6545.9	6738.7	6978.2	7343.3	7807.7	7879.3	8586.2	8827.2
20°	6351.6	6356.0	6382.3	6453.9	6610.1	6821.9	7157.8	7636.9	7711.3	8521.9	8862.2
22.5°	6480.2	6477.2	6484.5	6477.2	6564.9	6725.5	7035.1	7505.4	7591.6	8479.6	8890.0
25°	6727.0	6722.6	6719.7	6665.6	6607.2	6693.4	6984.0	7430.9	7512.7	8448.9	8906.0
27.5°	7070.2	7067.3	7062.9	6973.8	6798.5	6744.5	6989.9	7403.2	7471.8	8424.1	8903.1
30°	7521.5	7541.9	7536.1	7411.9	7138.8	6900.8	7051.2	7388.6	7448.5	8375.9	8872.4
32.5°	8051.6	8092.5	8124.7	7991.8	7650.0	7210.4	7192.9	7404.6	7448.5	8339.4	8816.9
35°	8602.2	8654.8	8773.1	8726.4	8276.6	7676.3	7436.8	7501.0	7537.5	8359.8	8790.6
37.5°	9144.1	9206.9	9463.9	9599.8	9097.3	8292.6	7816.5	7739.1	7758.1	8483.9	8819.9
40°	9773.5	9868.5	10258.4	10477.5	10077.3	9117.8	8384.6	8148.0	8155.3	8757.1	8955.7
42.5°	10600.2	10698.0	11120.1	11463.3	11181.5	10160.6	9155.8	8773.1	8765.8	9268.2	9275.5
45°	11607.9	11710.1	12146.8	12528.0	12401.0	11396.1	10143.1	9685.9	9677.2	10074.4	9881.6
47.5°	12750.0	12850.8	13240.7	13633.6	13770.9	12839.1	11400.5	10931.7	10911.3	11194.6	10817.8
50°	13730.0	13795.7	14155.0	14683.7	15302.9	14612.1	12964.7	12513.4	12491.5	12682.8	12192.1
52.5°	14086.4	14124.3	14489.4	15229.9	16775.1	17013.2	15019.6	14438.3	14422.3	14505.5	14022.1
55°	13364.9	13433.5	13881.9	14980.2	17572.5	19726.7	17613.4	16821.8	16700.6	16521.0	15935.3
57.5°	11399.1	11508.6	11990.6	13451.0	17200.1	21879.5	21425.3	19517.9	19339.7	18241.4	17490.7
60°	8540.9	8675.3	9075.4	10651.3	15212.4	22646.2	25590.6	22522.1	22120.5	19611.4	18920.5
62.5°	5860.9	5928.1	6199.7	7226.5	11203.4	21390.2	29075.3	26545.7	25812.6	21101.0	20467.2
65°	4476.4	4499.7	4610.7	4964.2	6671.5	17375.4	30461.3	31854.6	30968.1	22882.8	22072.3
67.5°	3607.4	3588.4	3741.8	4247.1	4467.6	10600.2	28844.5	36877.2	36462.4	25264.9	23687.6
69°	3180.9	3154.6	3310.9	3898.0	4196.0	7007.4	25786.3	38017.8	38044.1	26522.4	23798.6
70°	2862.5	2880.1	3034.9	3690.6	4104.0	5500.2	22865.3	37727.2	37934.6	26992.6	23132.6
72.5°	1911.8	1958.5	2269.6	3064.1	3946.2	4162.4	13805.9	32374.5	33171.9	25933.8	19846.5
75°	1077.8	1112.9	1482.4	2310.5	3718.4	3963.7	7292.2	23851.1	24622.3	21686.7	15304.4
77.5°	528.7	547.7	838.3	1491.2	3109.4	3776.8	4136.1	16201.1	17081.8	14155.0	8656.3
80°	223.5	233.7	419.2	920.1	2222.9	3604.5	3071.4	9970.7	10080.2	5545.5	2306.1
82.5°	86.2	89.1	176.7	574.0	1412.3	2810.0	2569.0	4727.6	4613.7	1044.2	525.8
85°	10.2	11.7	64.3	344.7	785.7	1445.9	2087.0	2037.4	1885.5	207.4	270.2
87.5°	0.0	0.0	4.4	105.2	233.7	677.7	1085.1	845.6	762.4	67.2	140.2
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°	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0
2.5°	8700.1	8685.5	8606.6	8492.7	8384.6	8250.3	8121.7	8044.3	7983.0	7942.1	7990.3
5°	8723.5	8659.2	8419.7	8113.0	7812.1	7473.3	7157.8	6890.6	6785.4	6668.6	6721.1
7.5°	8716.2	8594.9	8164.1	7617.9	7065.8	6494.8	5954.4	5538.1	5322.0	5110.2	5164.3
10°	8679.6	8475.2	7822.3	7013.2	6186.6	5365.8	4599.1	4016.3	3690.6	3395.6	3438.0
12.5°	8599.3	8314.5	7419.3	6321.0	5215.4	4133.2	3235.0	2488.7	2088.5	1911.8	1933.7
15°	8551.1	8158.3	6992.8	5619.9	4178.4	2878.6	1977.5	1470.7	1288.1	1229.7	1237.0
17.5°	8527.8	8007.8	6551.7	4818.1	3118.1	1832.9	1277.9	1127.5	1088.1	1077.8	1080.8
20°	8504.4	7855.9	6097.5	4025.1	2148.4	1232.6	1050.1	1006.3	991.7	978.5	981.4
22.5°	8465.0	7709.9	5609.7	3221.8	1448.8	1000.4	946.4	904.0	873.4	857.3	860.2
25°	8416.8	7556.5	5111.7	2399.6	1057.4	892.4	841.2	781.4	744.8	715.6	717.1
27.5°	8339.4	7368.1	4597.6	1746.7	888.0	798.9	730.2	664.5	603.2	569.6	569.6
30°	8231.3	7154.9	4026.6	1250.2	796.0	706.9	623.6	541.8	476.1	445.4	442.5
32.5°	8111.5	6932.9	3449.7	947.9	722.9	620.7	525.8	439.6	381.2	356.4	354.9
35°	8009.3	6693.4	2874.2	794.5	649.9	537.5	433.8	360.7	314.0	293.6	292.1
37.5°	7943.6	6453.9	2313.4	709.8	584.2	460.1	363.7	297.9	264.3	248.3	246.8
40°	7933.3	6275.7	1800.8	645.5	522.9	391.4	303.8	252.7	222.0	204.5	203.0
42.5°	8066.2	6173.5	1381.6	591.5	460.1	331.5	258.5	216.2	184.0	166.5	165.0
45°	8415.3	6205.6	1063.2	543.3	397.3	280.4	219.1	179.6	150.4	137.3	134.4
47.5°	9052.1	6427.6	845.6	495.1	337.4	238.1	186.9	149.0	124.1	111.0	109.5
50°	10185.4	6949.0	706.9	442.5	281.9	203.0	154.8	121.2	100.8	89.1	87.6
52.5°	11689.7	7877.8	630.9	391.4	233.7	172.3	127.1	96.4	78.9	70.1	68.6
55°	13348.8	9002.4	581.3	335.9	191.3	143.1	100.8	75.9	61.3	54.0	51.1
57.5°	14968.5	9976.6	534.5	281.9	159.2	116.8	80.3	59.9	48.2	40.9	39.4
60°	16456.7	10871.8	480.5	226.4	130.0	92.0	62.8	46.7	38.0	30.7	30.7
62.5°	18050.1	11564.1	406.0	176.7	106.6	70.1	51.1	42.4	30.7	26.3	24.8
65°	19738.4	12078.2	318.4	137.3	83.2	52.6	42.4	43.8	24.8	19.0	17.5
67.5°	20985.7	11976.0	235.1	108.1	64.3	40.9	40.9	46.7	21.9	14.6	13.1
69°	20711.1	11144.9	197.2	93.5	55.5	35.1	38.0	46.7	20.4	13.1	11.7
70°	19915.1	10224.8	173.8	83.2	49.7	32.1	36.5	45.3	19.0	13.1	11.7
72.5°	16585.2	7701.1	135.8	62.8	39.4	26.3	30.7	39.4	19.0	13.1	10.2
75°	12475.4	4929.1	103.7	45.3	29.2	20.4	23.4	29.2	19.0	11.7	10.2
77.5°	6788.3	1777.4	74.5	30.7	20.4	16.1	16.1	21.9	17.5	8.8	5.8
80°	1745.3	446.9	46.7	20.4	16.1	11.7	10.2	14.6	10.2	1.5	0.0
82.5°	430.8	100.8	24.8	14.6	11.7	4.4	4.4	7.3	4.4	0.0	0.0
85°	236.6	49.7	16.1	10.2	5.8	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	121.2	14.6	4.4	2.9	1.5	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)