

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: P321742

Luminaire Tested: **GLEON-SA8D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35158 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

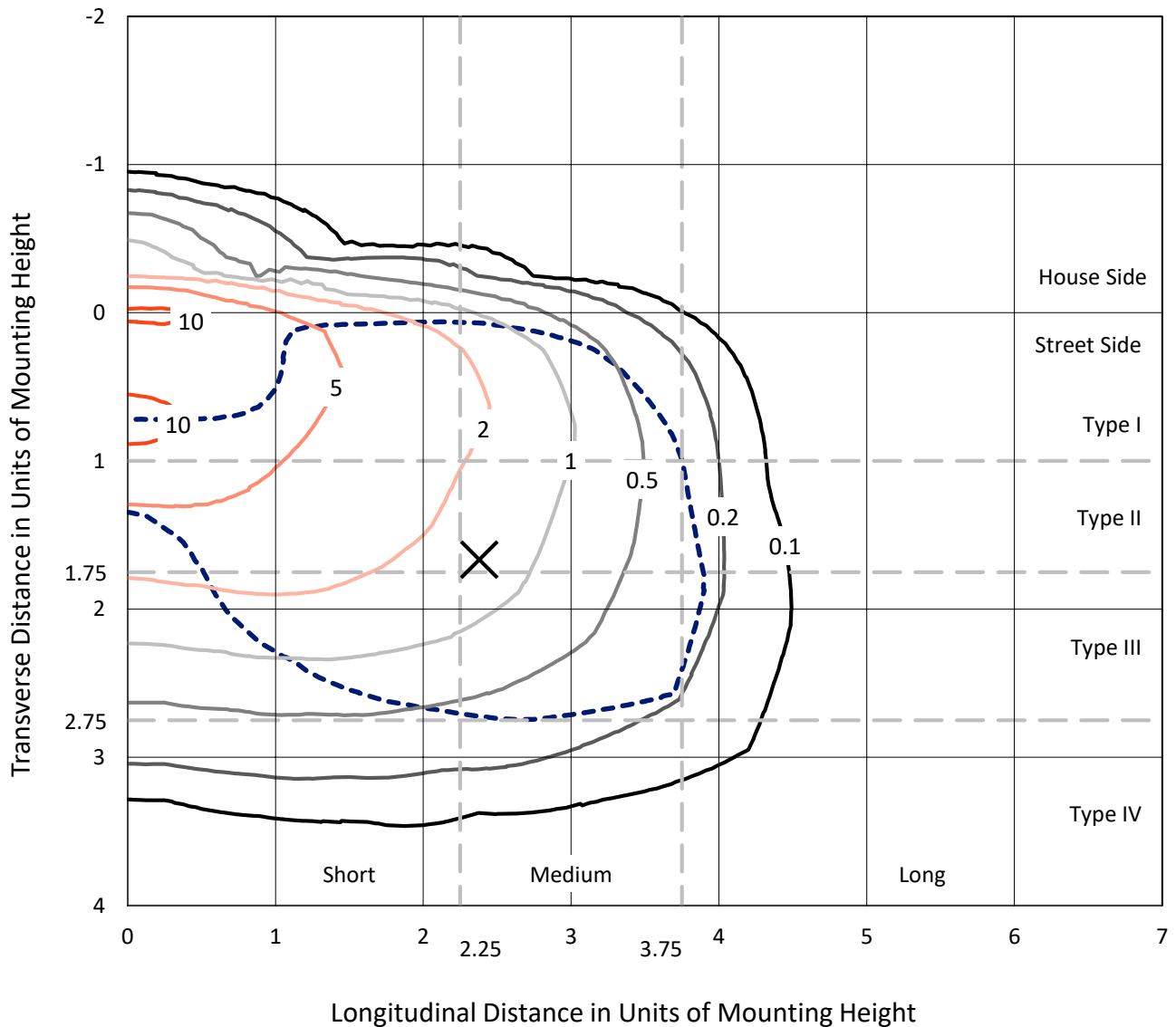
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

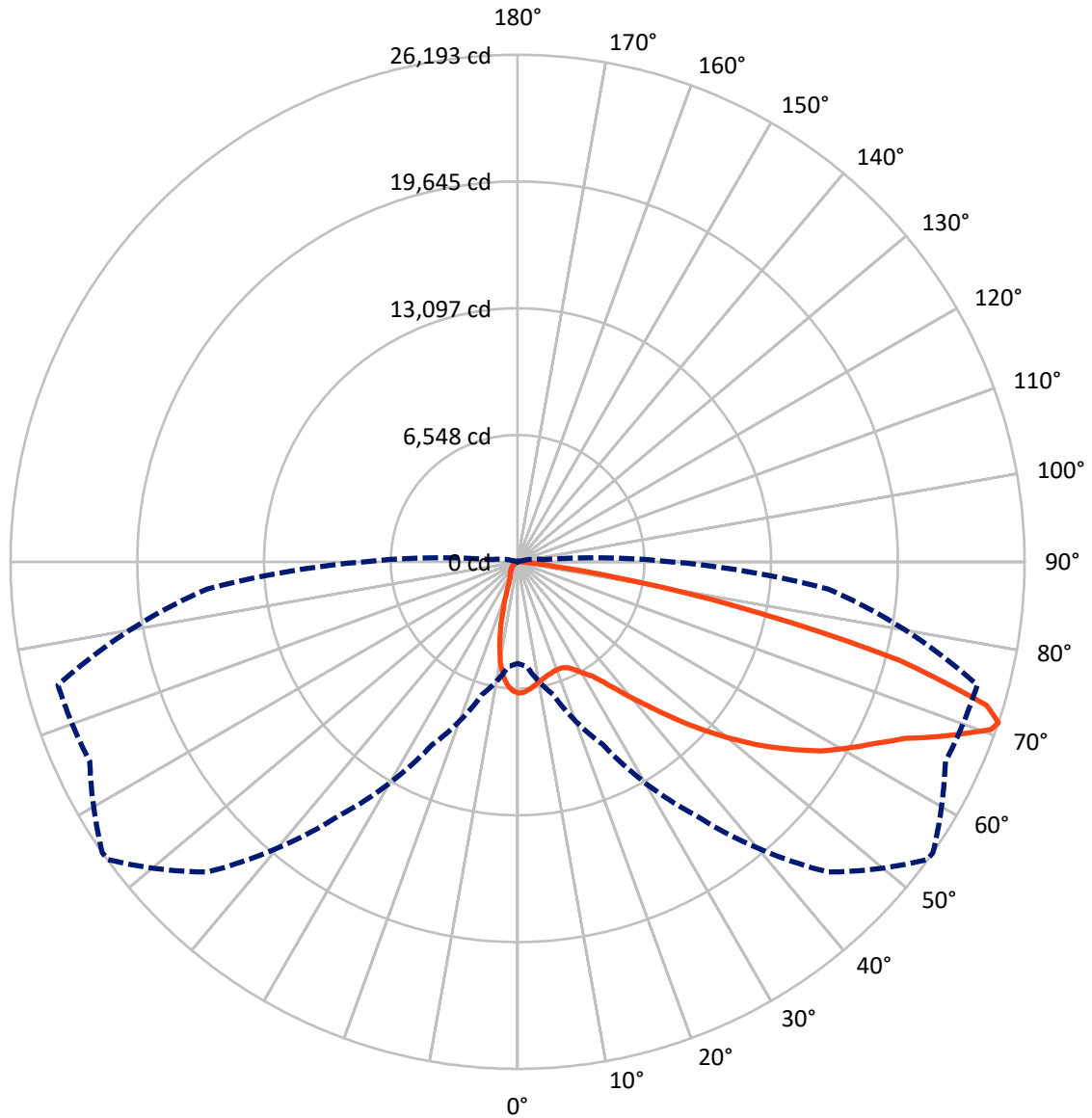
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.5	0.0	2783.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32374.4	0.0	32374.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	35158.0	0.0	35158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.1	1.6
10°-20°	1305.1	3.7
20°-30°	2097.4	6.0
30°-40°	3563.6	10.1
40°-50°	5531.1	15.7
50°-60°	7436.5	21.2
60°-70°	9097.3	25.9
70°-80°	5319.0	15.1
80°-90°	229.9	0.7
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°	35158.0	100.0
0°-180°	35158.0	100.0

Coefficient of Utilization

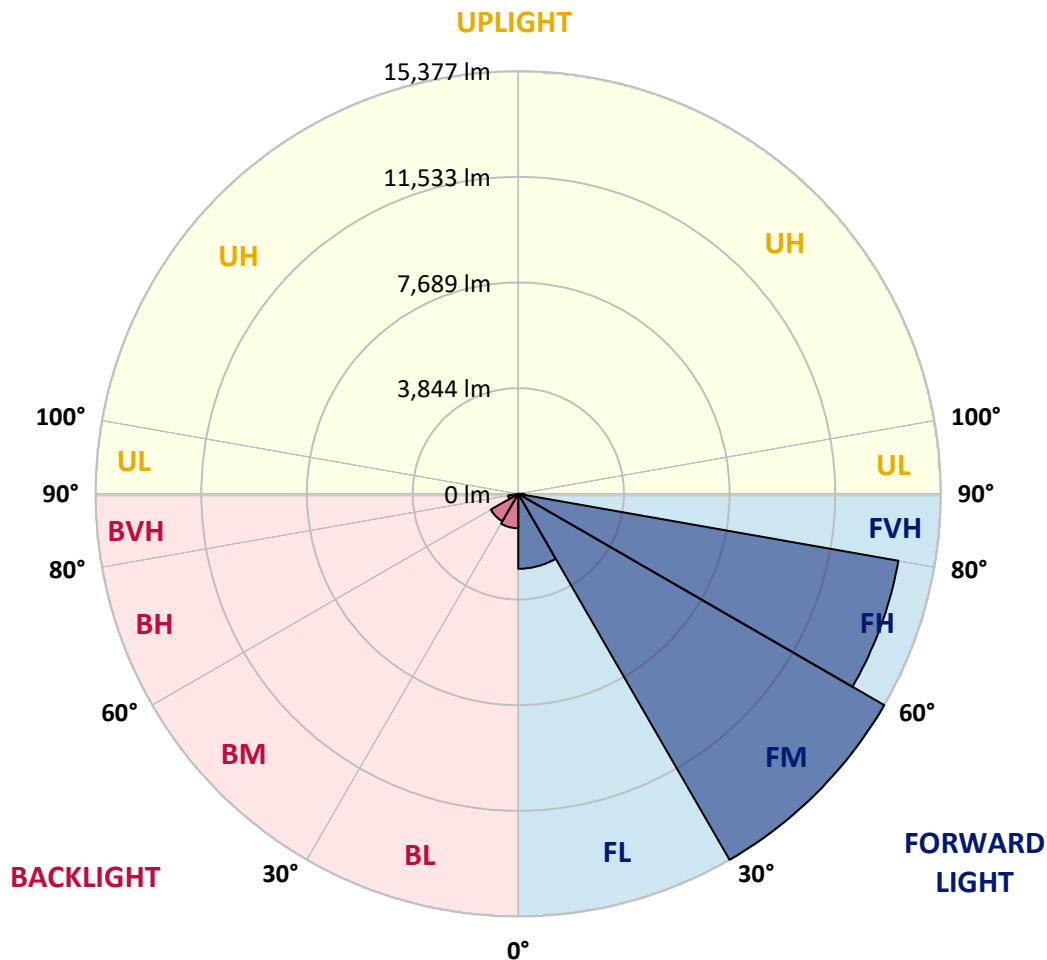


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.8	7.8			
FM (30°-60°)	15377.1	43.7			
FH (60°-80°)	14043.3	39.9			G5
FVH (80°-90°)	226.3	0.6			G3/500
BL (0°-30°)	1252.9	3.6	B3/2500		
BM (30°-60°)	1154.1	3.3	B2/2500		
BH (60°-80°)	372.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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°	54°	55°	65°	75°	85°
0°	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3
2.5°	6581.4	6589.3	6617.7	6630.4	6660.4	6710.9	6736.1	6737.7	6778.8	6794.6	6807.2
5°	6115.7	6163.1	6210.5	6261.0	6352.5	6474.1	6594.1	6605.1	6737.7	6835.6	6887.7
7.5°	5714.8	5757.4	5814.2	5894.7	6024.2	6215.2	6415.7	6439.4	6690.4	6913.0	7029.8
10°	5302.7	5337.5	5419.5	5537.9	5716.3	5972.1	6242.0	6281.5	6647.7	7017.1	7222.4
12.5°	4862.3	4882.8	4982.3	5152.7	5414.8	5740.0	6095.2	6147.3	6620.9	7137.1	7449.7
15°	4527.6	4537.1	4631.8	4808.6	5108.5	5531.6	5981.5	6044.7	6627.2	7280.8	7697.5
17.5°	4442.4	4447.1	4497.6	4619.2	4884.4	5345.3	5891.6	5968.9	6646.2	7421.3	7947.0
20°	4788.1	4754.9	4702.8	4683.9	4797.5	5233.3	5837.9	5924.7	6671.4	7546.0	8171.1
22.5°	5736.9	5639.0	5422.7	5133.8	4958.6	5241.2	5852.1	5938.9	6751.9	7699.1	8430.0
25°	7145.0	7009.3	6641.4	6073.1	5526.9	5468.5	5970.5	6058.9	6908.2	7882.3	8677.9
27.5°	8747.4	8613.2	8163.3	7351.8	6420.4	5918.4	6242.0	6324.1	7140.3	8044.9	8867.3
30°	10281.8	10243.9	9713.5	8791.6	7544.4	6647.7	6592.5	6661.9	7312.4	8142.7	9017.3
32.5°	11582.6	11522.6	11096.4	10199.7	8831.0	7523.9	7004.5	7025.0	7441.8	8269.0	9213.1
35°	12788.7	12714.5	12340.4	11492.6	10150.8	8594.2	7639.1	7609.1	7724.4	8523.2	9497.2
37.5°	13841.7	13909.6	13494.4	12687.7	11334.8	9707.2	8494.8	8404.8	8166.4	8936.8	9909.3
40°	14722.6	14722.6	14506.3	13833.8	12613.5	10858.0	9462.5	9344.1	8831.0	9574.6	10431.8
42.5°	15039.9	15107.8	15188.3	14807.8	13758.0	12054.7	10540.7	10417.6	9767.2	10479.1	11091.7
45°	15058.8	15166.2	15578.2	15576.6	14792.0	13243.4	11756.3	11697.9	10967.0	11641.0	11909.4
47.5°	14792.0	14926.2	15605.1	15990.3	15611.4	14350.0	13085.5	13012.9	12376.7	13065.0	12765.0
50°	14380.0	14528.4	15317.7	16152.9	16168.6	15313.0	14485.8	14376.9	13928.5	14692.6	13649.1
52.5°	13642.8	13930.1	15060.4	16190.7	16534.9	16145.0	15818.2	15770.8	15665.0	16260.2	14353.2
55°	12065.7	12384.6	14414.7	16203.4	16874.3	16882.2	17066.9	17079.5	17292.6	17725.2	14877.3
57.5°	11320.6	11500.5	13287.6	16263.4	17377.9	17718.9	18339.3	18437.2	18767.1	19116.0	15475.6
60°	10851.7	11064.8	12731.9	16181.3	18168.8	18816.1	19518.6	19551.7	19905.3	20551.0	16285.5
62.5°	10477.6	10687.5	12381.4	15865.5	19057.6	20135.8	20671.0	20674.1	20939.4	22260.7	17205.8
65°	9554.1	9730.9	11672.6	15510.3	19644.9	21441.4	22009.7	21989.2	22205.4	24063.5	18274.6
67.5°	8218.5	8354.3	10225.0	14163.7	19423.8	22628.5	24030.4	23962.5	23700.4	25621.7	18694.5
70°	6354.1	6403.0	8059.1	11803.6	17352.6	23084.8	25983.2	25948.4	24617.6	25342.2	17155.3
71°	5252.2	5413.2	7102.4	10417.6	15965.0	22663.2	26172.6	26193.1	24387.1	24581.3	16096.0
72.5°	3050.0	3187.3	5148.0	8000.7	13554.4	20904.6	25190.7	25339.1	23310.5	22358.6	13748.6
75°	653.6	699.3	1908.6	3872.5	7456.0	14651.5	19883.2	20412.1	18999.2	15210.4	8286.4
77.5°	454.7	491.0	817.7	1757.0	2464.3	7239.7	12351.4	12948.2	11350.6	5716.3	2652.1
80°	359.9	401.0	637.8	868.3	666.2	2334.8	5785.8	6150.5	3785.6	1275.6	446.8
82.5°	200.5	238.4	497.3	468.9	255.7	443.6	1619.7	1831.2	757.8	257.3	105.8
85°	58.4	71.0	320.5	341.0	108.9	85.2	276.3	342.6	143.7	67.9	47.4
87.5°	0.0	0.0	154.7	131.0	31.6	12.6	25.3	28.4	28.4	28.4	31.6
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°	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3	6780.3
2.5°	6807.2	6818.2	6778.8	6726.7	6671.4	6603.5	6532.5	6477.2	6475.7	6448.8	6422.0
5°	6890.9	6884.5	6775.6	6609.9	6414.1	6210.5	6016.3	5796.8	5724.2	5634.2	5604.2
7.5°	7045.6	7001.4	6770.9	6407.8	5978.4	5552.1	5111.7	4668.1	4478.7	4308.2	4278.2
10°	7239.7	7156.1	6740.9	6104.7	5316.9	4530.8	3866.1	3263.1	2997.9	2794.2	2784.8
12.5°	7441.8	7313.9	6657.2	5646.9	4450.2	3345.2	2579.5	1986.0	1764.9	1622.9	1635.5
15°	7653.3	7462.3	6477.2	5029.6	3463.6	2270.1	1585.0	1236.1	1147.7	1111.4	1120.8
17.5°	7869.6	7564.9	6226.2	4286.1	2489.5	1465.0	1097.2	999.3	999.3	1007.2	1010.3
20°	8057.5	7620.2	5856.8	3452.5	1687.6	1067.2	959.8	945.6	953.5	966.1	967.7
22.5°	8243.8	7623.4	5375.3	2607.9	1180.8	934.6	914.0	907.7	912.5	926.7	928.3
25°	8395.3	7585.5	4772.3	1854.9	942.5	880.9	871.4	868.3	871.4	888.8	888.8
27.5°	8456.9	7448.1	4036.6	1304.0	844.6	820.9	817.7	820.9	825.6	838.3	839.8
30°	8463.2	7208.2	3234.7	944.0	765.7	740.4	746.7	757.8	753.0	749.9	753.0
32.5°	8479.0	6930.3	2453.2	776.7	699.3	659.9	652.0	652.0	633.0	622.0	615.7
35°	8531.1	6603.5	1779.2	697.8	631.5	585.7	555.7	521.0	484.6	465.7	461.0
37.5°	8613.2	6261.0	1274.0	645.7	571.5	519.4	462.5	401.0	348.9	334.7	334.7
40°	8763.1	5907.3	942.5	604.6	524.1	459.4	374.1	293.6	246.3	238.4	238.4
42.5°	8999.9	5534.8	751.4	568.3	483.1	397.8	285.7	213.1	178.4	173.7	172.1
45°	9246.2	5124.3	656.7	533.6	438.9	326.8	211.5	157.9	137.3	132.6	132.6
47.5°	9492.5	4687.0	610.9	500.4	396.2	254.2	157.9	124.7	115.2	115.2	116.8
50°	9700.9	4230.8	577.8	464.1	341.0	192.6	124.7	105.8	102.6	108.9	110.5
52.5°	9753.0	3782.5	536.7	418.3	273.1	146.8	102.6	93.1	93.1	93.1	93.1
55°	9721.4	3435.2	483.1	361.5	202.1	116.8	88.4	82.1	80.5	80.5	80.5
57.5°	9828.7	3229.9	386.8	281.0	145.2	94.7	77.4	72.6	69.5	67.9	67.9
60°	10045.0	3095.8	276.3	202.1	108.9	78.9	66.3	61.6	56.8	53.7	53.7
62.5°	10332.3	2978.9	205.2	150.0	83.7	63.1	55.3	50.5	44.2	41.0	41.0
65°	10553.3	2770.5	156.3	112.1	63.1	50.5	42.6	41.0	31.6	28.4	26.8
67.5°	10215.5	2312.7	126.3	82.1	47.4	39.5	33.2	31.6	18.9	15.8	15.8
70°	8761.6	1610.2	101.0	60.0	34.7	31.6	26.8	20.5	14.2	12.6	12.6
71°	7945.4	1345.0	91.6	50.5	30.0	30.0	25.3	17.4	12.6	11.1	11.1
72.5°	6600.4	955.1	77.4	39.5	26.8	31.6	26.8	15.8	12.6	11.1	9.5
75°	3831.4	399.4	53.7	26.8	20.5	37.9	34.7	14.2	9.5	7.9	7.9
77.5°	1152.4	146.8	30.0	17.4	15.8	33.2	39.5	12.6	4.7	1.6	1.6
80°	210.0	63.1	18.9	11.1	11.1	20.5	30.0	6.3	0.0	0.0	0.0
82.5°	74.2	31.6	11.1	6.3	4.7	9.5	14.2	0.0	0.0	0.0	0.0
85°	42.6	22.1	6.3	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.4	6.3	0.0	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)