

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: P456386

Luminaire Tested: **GALN-SA7C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28820 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

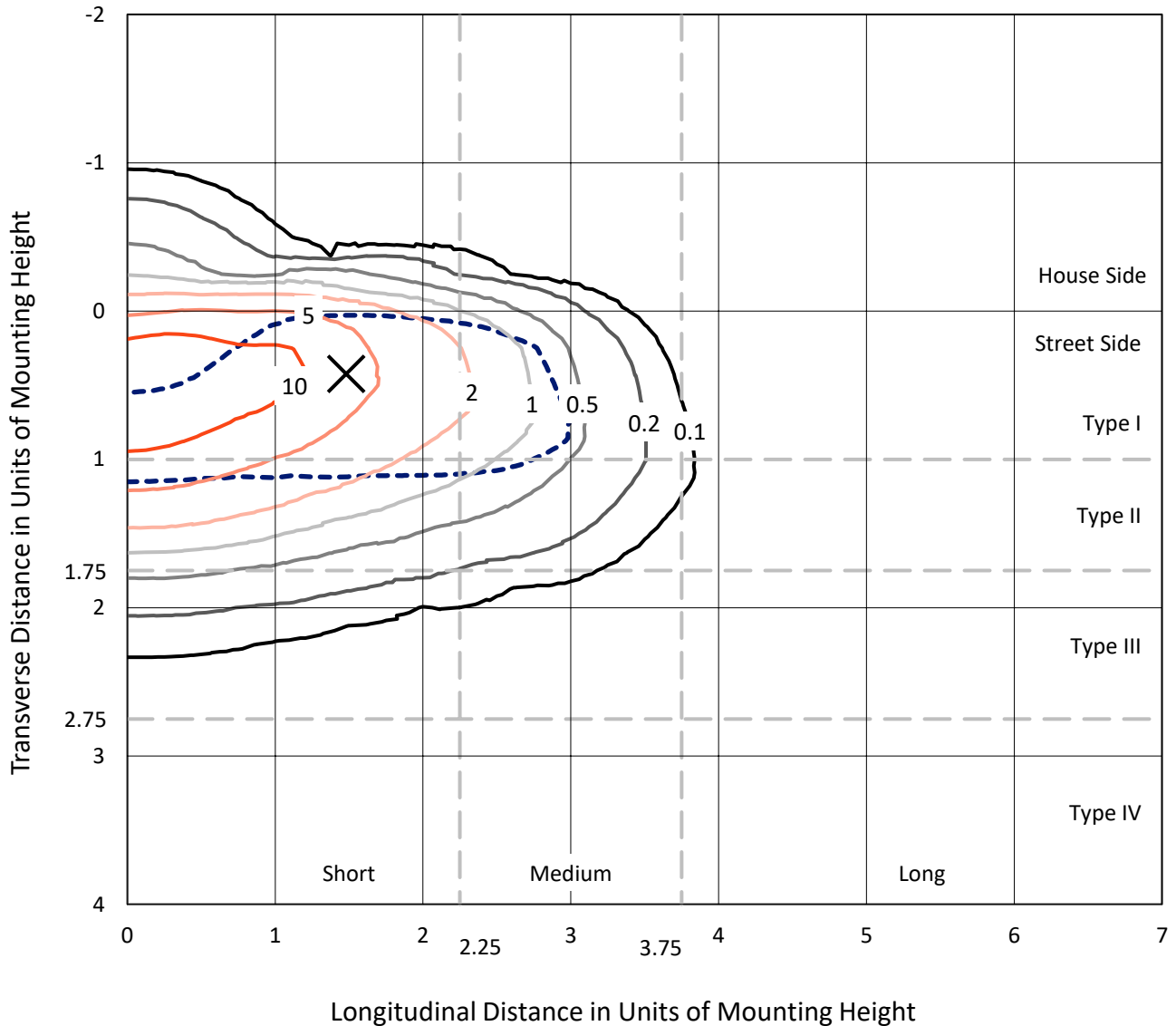
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

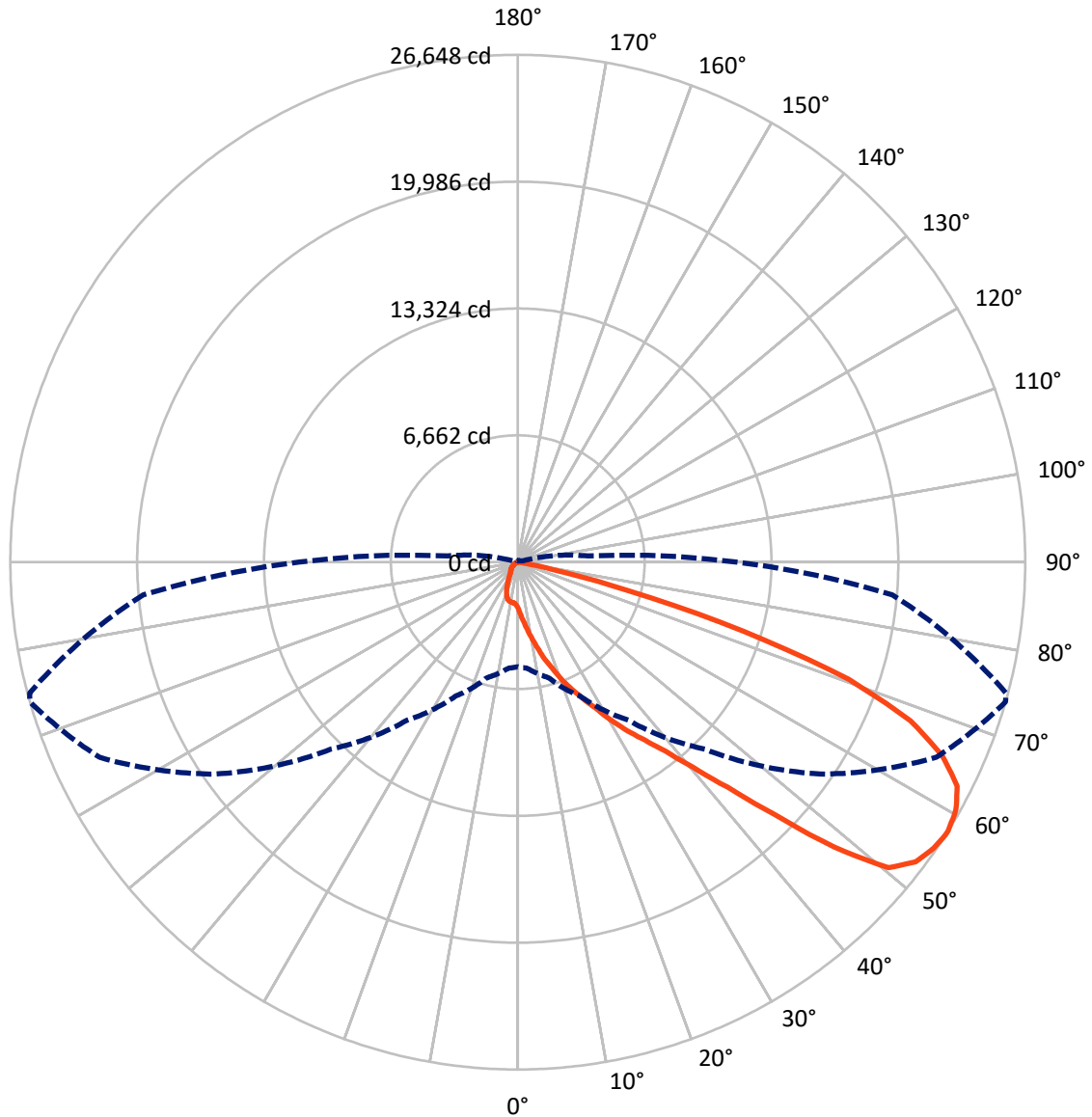
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.2	0.0	1662.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27157.8	0.0	27157.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	28820.0	0.0	28820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.0
10°-20°	1148.3	4.0
20°-30°	2457.1	8.5
30°-40°	4516.1	15.7
40°-50°	6923.3	24.0
50°-60°	7323.9	25.4
60°-70°	4782.7	16.6
70°-80°	1306.8	4.5
80°-90°	70.4	0.2
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°	28820.0	100.0
0°-180°	28820.0	100.0

Coefficient of Utilization



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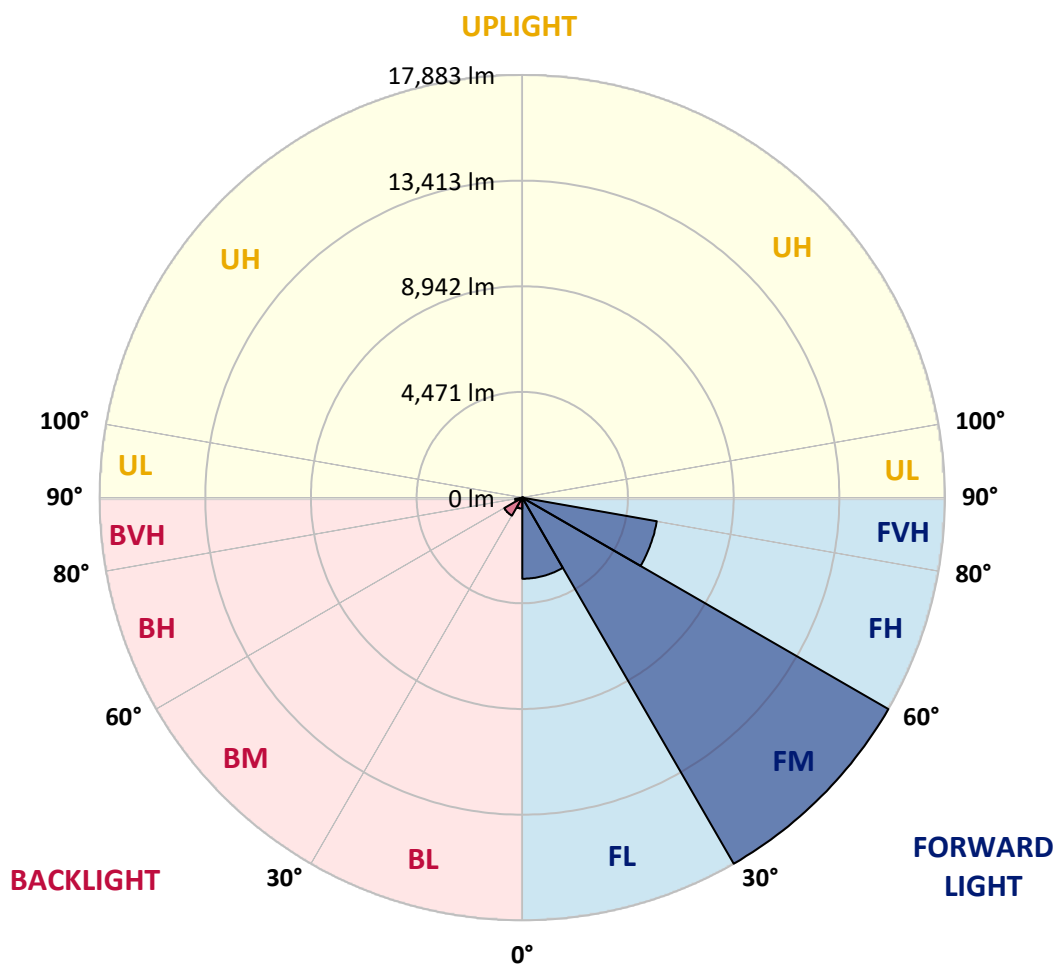
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.4	11.9			
FM	(30°-60°)	17883.3	62.1			
FH	(60°-80°)	5777.4	20.0			G3/7500
FVH	(80°-90°)	64.5	0.2			G1/100
BL	(0°-30°)	464.3	1.6	B1/500		
BM	(30°-60°)	880.0	3.1	B1/1000		
BH	(60°-80°)	312.1	1.1	B1/500		G1/500
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: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6
2.5°	3531.9	3500.1	3436.4	3414.5	3321.0	3175.7	3048.4	2877.3	2742.0	2728.0	2564.9
5°	4729.8	4658.1	4628.3	4485.0	4260.2	4049.3	3687.1	3412.5	3096.1	3072.3	2743.9
7.5°	5883.9	5784.4	5754.5	5619.2	5356.6	5024.3	4554.7	4055.2	3553.8	3508.0	2984.7
10°	6719.6	6733.5	6679.8	6590.2	6377.3	6039.1	5460.0	4777.5	4063.2	4005.5	3255.3
12.5°	7318.5	7316.5	7326.5	7324.5	7211.1	6954.4	6345.5	5559.5	4624.3	4510.9	3565.7
15°	7708.5	7714.5	7744.3	7847.8	7859.7	7700.6	7193.2	6307.7	5275.0	5133.7	3902.0
17.5°	8102.5	8144.3	8192.0	8289.5	8377.1	8313.4	7955.3	7087.7	5864.0	5758.5	4262.2
20°	8753.2	8810.9	8783.0	8842.7	8888.5	8894.4	8617.9	7808.0	6578.3	6401.2	4674.1
22.5°	9793.8	9791.8	9720.2	9612.8	9523.2	9519.2	9268.5	8548.2	7227.0	7055.9	5087.9
25°	11109.1	11115.1	10975.8	10669.4	10446.5	10173.9	9885.4	9196.9	7921.4	7710.5	5523.7
27.5°	12617.4	12579.6	12368.6	11946.8	11505.1	11039.5	10623.6	9951.0	8657.7	8482.6	6023.1
30°	13972.4	13958.5	13711.8	13196.4	12615.4	12147.8	11544.9	10896.2	9610.8	9395.9	6582.3
32.5°	15234.0	15253.9	14911.6	14378.4	13817.2	13278.0	12641.3	11799.6	10546.0	10241.5	7191.2
35°	16218.9	16238.8	15884.6	15440.9	14863.9	14416.2	13809.3	12762.6	11469.3	11212.6	7891.6
37.5°	16744.2	16770.1	16565.2	16230.9	15870.7	15645.9	15080.8	14002.3	12591.5	12436.3	8719.3
40°	16843.7	16873.6	16784.0	16694.5	16674.6	16835.8	16670.6	15462.8	14147.5	13904.8	9953.0
42.5°	16545.3	16585.1	16624.8	16823.8	17229.8	17820.7	18395.8	17444.6	16151.3	15824.9	11461.3
45°	15761.3	15757.3	15914.5	16429.8	17339.2	18600.7	20198.5	19925.9	18881.3	18493.3	13592.4
47.5°	14420.1	14400.2	14740.5	15474.7	16891.5	18744.0	21669.0	22938.5	22365.4	22007.3	15882.6
50°	12376.6	12474.1	13009.4	14034.1	15779.2	18310.2	22122.7	24914.4	25224.8	24844.7	17733.2
52.5°	9982.9	9978.9	10818.6	12209.5	14131.6	17355.1	21806.3	25272.6	26154.0	25863.5	18644.5
55°	7388.2	7439.9	8313.4	9716.2	11992.6	15612.0	20773.6	24904.4	26508.2	26303.3	19245.4
57°	5495.9	5587.4	6287.8	7772.2	10130.1	13886.9	19398.6	24245.8	26647.5	26536.1	19744.9
57.5°	5129.7	5133.7	5816.2	7165.3	9584.9	13224.3	19004.7	23971.2	26643.5	26581.8	19826.4
60°	3157.8	3257.3	3728.9	4843.2	7016.1	10321.1	16364.2	22393.3	26436.6	26526.1	20174.7
62.5°	1890.3	1932.1	2238.5	2919.0	4522.8	7533.4	13391.4	20373.6	25897.4	26170.0	20150.8
65°	1215.8	1225.7	1365.0	1766.9	2827.5	5091.9	10319.1	17705.3	24502.5	25003.9	19362.8
67.5°	939.2	955.1	1010.8	1160.1	1639.6	3171.8	7298.6	14857.9	22246.1	22892.7	17452.6
70°	833.7	841.7	861.6	909.3	1084.4	1790.8	4540.7	11606.6	18447.5	18630.6	13658.0
72.5°	680.5	702.4	764.1	780.0	859.6	1118.3	2527.1	7790.1	12394.5	12440.3	7640.9
75°	527.3	531.3	622.8	668.6	724.3	770.1	1128.2	3927.9	5953.5	5635.1	2944.9
77.5°	394.0	411.9	453.7	511.4	591.0	551.2	505.4	1480.4	1848.5	1814.7	855.6
80°	252.7	262.7	316.4	384.0	459.6	360.2	284.5	433.8	405.9	417.9	205.0
82.5°	127.3	129.3	203.0	312.4	292.5	181.1	179.1	177.1	151.2	149.2	95.5
85°	13.9	29.8	131.3	179.1	131.3	59.7	83.6	81.6	79.6	81.6	55.7
87.5°	2.0	2.0	21.9	25.9	17.9	19.9	23.9	25.9	31.8	29.8	23.9
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°	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6
2.5°	2485.3	2405.7	2258.4	2117.2	2011.7	1944.0	1856.5	1824.7	1778.9	1772.9	1751.0
5°	2592.7	2441.5	2184.8	1981.8	1818.7	1695.3	1587.9	1498.3	1426.7	1410.8	1418.7
7.5°	2745.9	2521.1	2162.9	1886.3	1659.5	1448.6	1277.5	1172.0	1096.4	1068.5	1072.5
10°	2919.0	2626.5	2158.9	1784.9	1438.6	1180.0	992.9	899.4	855.6	839.7	821.8
12.5°	3124.0	2747.9	2149.0	1627.7	1195.9	941.2	807.9	752.1	710.4	698.4	698.4
15°	3354.8	2877.3	2101.2	1432.7	971.0	778.0	688.5	644.7	630.8	618.8	618.8
17.5°	3595.6	3004.6	2001.7	1191.9	805.9	666.6	610.9	585.0	565.1	551.2	551.2
20°	3870.2	3130.0	1842.6	979.0	680.5	595.0	551.2	521.3	505.4	493.5	489.5
22.5°	4130.8	3231.4	1639.6	803.9	593.0	535.3	495.5	463.6	447.7	441.7	441.7
25°	4401.5	3293.1	1394.9	664.6	541.2	485.5	441.7	415.9	401.9	398.0	396.0
27.5°	4664.1	3328.9	1180.0	581.0	493.5	439.7	398.0	378.1	364.1	360.2	362.1
30°	4982.5	3334.9	971.0	521.3	451.7	396.0	358.2	340.3	332.3	328.3	326.3
32.5°	5304.8	3327.0	815.8	485.5	411.9	358.2	326.3	312.4	306.4	300.5	300.5
35°	5667.0	3285.2	694.4	449.7	374.1	326.3	298.5	286.5	278.6	272.6	270.6
37.5°	6116.7	3263.3	624.8	409.9	340.3	296.5	270.6	258.7	252.7	244.7	242.8
40°	6825.0	3360.8	602.9	374.1	306.4	268.6	244.7	230.8	222.9	214.9	212.9
42.5°	7708.5	3531.9	567.1	338.3	276.6	242.8	218.9	203.0	189.0	179.1	175.1
45°	8852.7	3756.8	511.4	300.5	250.7	214.9	193.0	173.1	155.2	147.2	145.3
47.5°	10052.5	3973.6	461.6	270.6	222.9	191.0	167.1	145.3	129.3	123.4	121.4
50°	10788.7	4017.4	429.8	236.8	195.0	165.2	141.3	121.4	111.4	105.5	105.5
52.5°	11125.0	3947.8	386.0	206.9	169.1	145.3	121.4	105.5	99.5	95.5	93.5
55°	11359.8	3840.3	328.3	179.1	145.3	123.4	107.4	95.5	87.6	83.6	81.6
57°	11497.1	3695.1	284.5	157.2	125.4	107.4	95.5	85.6	77.6	69.6	69.6
57.5°	11503.1	3639.4	272.6	155.2	119.4	103.5	93.5	83.6	73.6	65.7	63.7
60°	11326.0	3257.3	218.9	131.3	95.5	87.6	77.6	65.7	51.7	43.8	41.8
62.5°	10756.9	2771.8	181.1	111.4	77.6	67.7	55.7	49.7	35.8	25.9	25.9
65°	9895.3	2248.5	155.2	89.5	63.7	49.7	37.8	35.8	21.9	11.9	9.9
67.5°	8649.7	1751.0	131.3	73.6	53.7	35.8	25.9	23.9	11.9	4.0	0.0
70°	6590.2	1193.9	109.4	59.7	39.8	25.9	17.9	13.9	8.0	2.0	0.0
72.5°	3798.5	656.6	91.5	45.8	29.8	19.9	13.9	8.0	8.0	0.0	0.0
75°	1357.0	282.6	69.6	33.8	23.9	15.9	9.9	4.0	6.0	2.0	0.0
77.5°	431.8	151.2	45.8	25.9	19.9	11.9	8.0	4.0	4.0	2.0	0.0
80°	127.3	79.6	27.9	21.9	13.9	9.9	6.0	2.0	4.0	2.0	0.0
82.5°	69.6	39.8	21.9	15.9	13.9	8.0	6.0	2.0	2.0	2.0	0.0
85°	35.8	23.9	17.9	15.9	13.9	8.0	6.0	2.0	0.0	2.0	2.0
87.5°	19.9	17.9	17.9	15.9	13.9	9.9	6.0	2.0	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)