

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: P459257

Luminaire Tested: **GALN-SA7B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459257
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-SA7B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 29559 lumens
Efficiency: N/A
Efficacy: 103.4 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

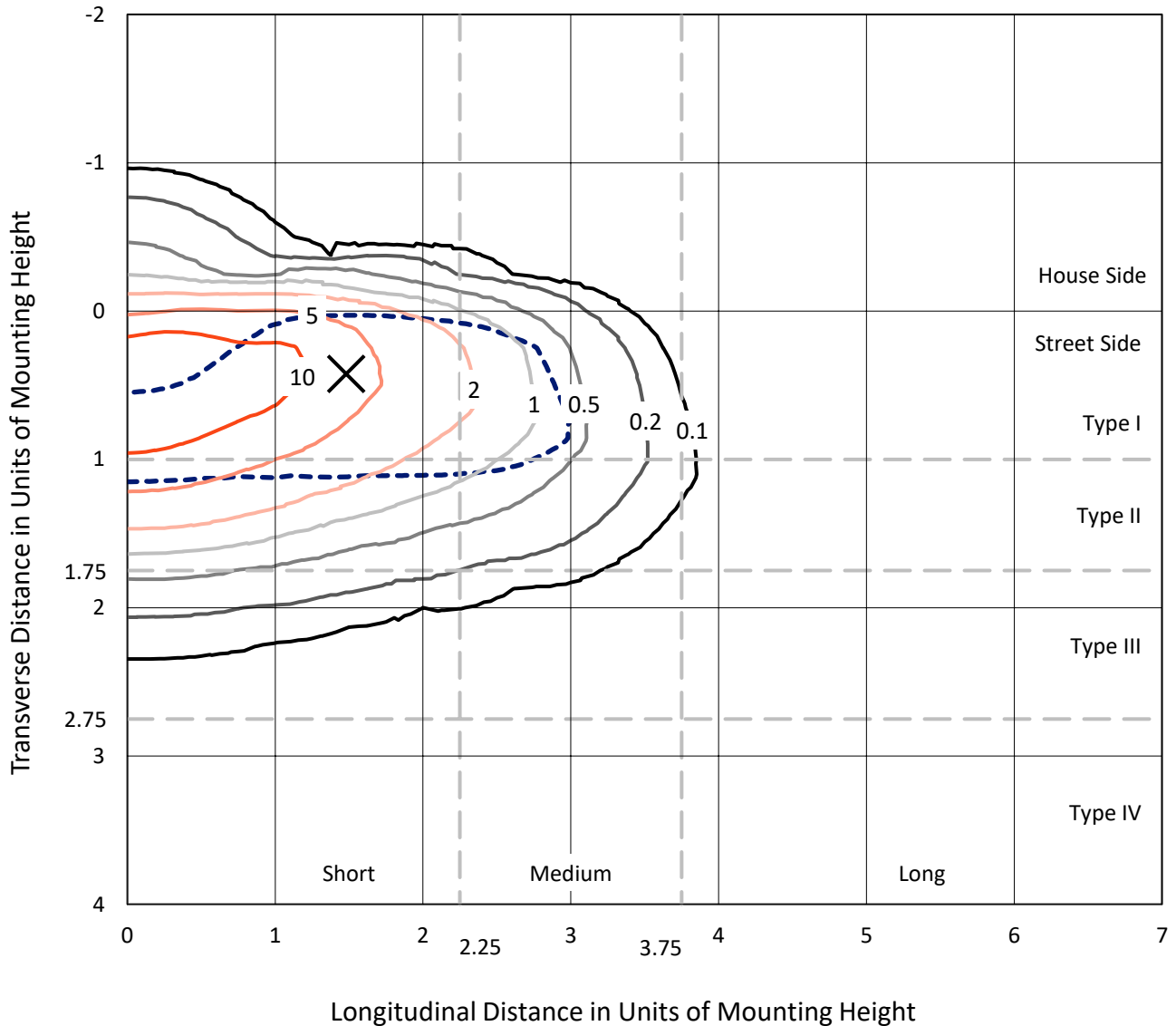
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

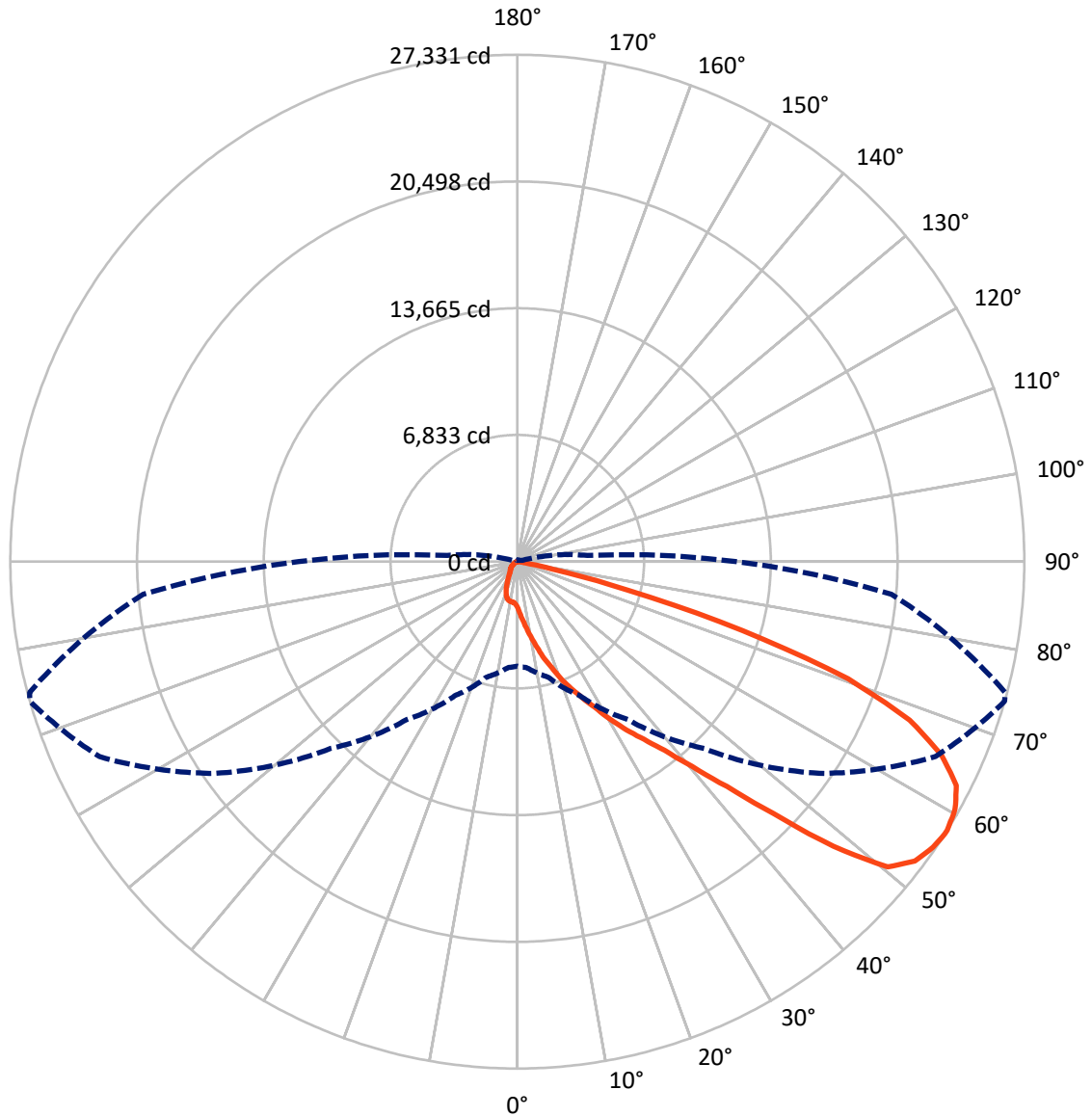
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	1704.9	0.0	1704.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27854.1	0.0	27854.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	29559.0	0.0	29559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	1.0
10°-20°	1177.8	4.0
20°-30°	2520.1	8.5
30°-40°	4631.9	15.7
40°-50°	7100.8	24.0
50°-60°	7511.7	25.4
60°-70°	4905.4	16.6
70°-80°	1340.3	4.5
80°-90°	72.2	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°	29559.0	100.0
0°-180°	29559.0	100.0

Coefficient of Utilization



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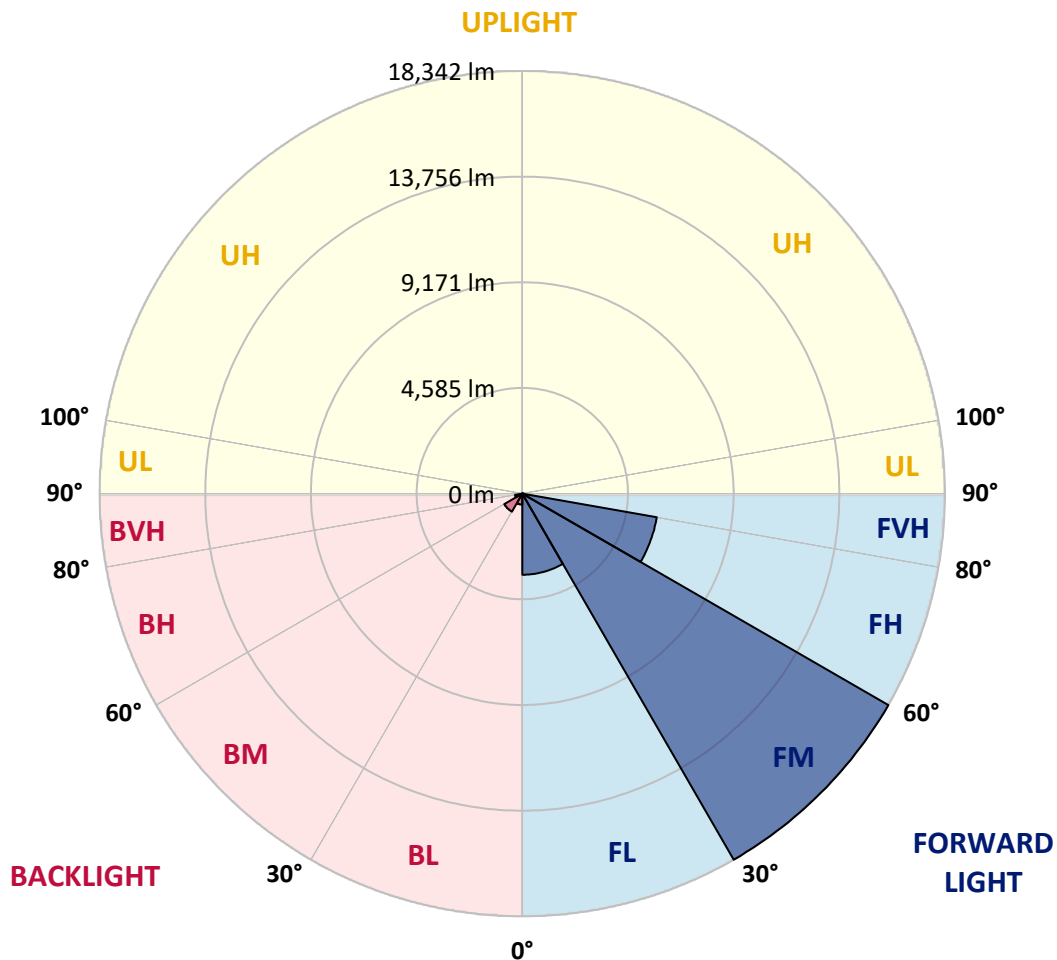
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3520.4	11.9			
FM	(30°-60°)	18341.9	62.1			
FH	(60°-80°)	5925.6	20.0			G3/7500
FVH	(80°-90°)	66.2	0.2			G1/100
BL	(0°-30°)	476.2	1.6	B1/500		
BM	(30°-60°)	902.6	3.1	B1/1000		
BH	(60°-80°)	320.1	1.1	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5
2.5°	3622.5	3589.8	3524.5	3502.1	3406.1	3257.2	3126.6	2951.0	2812.3	2798.0	2630.6
5°	4851.1	4777.6	4747.0	4600.0	4369.4	4153.1	3781.7	3500.0	3175.5	3151.0	2814.3
7.5°	6034.7	5932.7	5902.1	5763.3	5493.9	5153.1	4671.5	4159.2	3644.9	3598.0	3061.2
10°	6891.9	6906.2	6851.1	6759.2	6540.9	6193.9	5600.0	4900.0	4167.4	4108.2	3338.8
12.5°	7506.2	7504.1	7514.3	7512.3	7396.0	7132.7	6508.2	5702.1	4742.9	4626.6	3657.2
15°	7906.2	7912.3	7942.9	8049.0	8061.3	7898.0	7377.6	6469.4	5410.2	5265.3	4002.1
17.5°	8310.3	8353.1	8402.1	8502.1	8591.9	8526.6	8159.2	7269.4	6014.3	5906.2	4371.5
20°	8977.6	9036.8	9008.2	9069.5	9116.4	9122.5	8838.8	8008.2	6747.0	6565.4	4793.9
22.5°	10045.0	10042.9	9969.5	9859.3	9767.4	9763.3	9506.2	8767.4	7412.3	7236.8	5218.4
25°	11394.0	11400.1	11257.2	10942.9	10714.4	10434.8	10138.8	9432.7	8124.5	7908.2	5665.3
27.5°	12940.9	12902.1	12685.8	12253.1	11800.1	11322.5	10896.0	10206.2	8879.7	8700.1	6177.6
30°	14330.7	14316.4	14063.4	13534.8	12938.9	12459.3	11840.9	11175.6	9857.2	9636.8	6751.1
32.5°	15624.6	15645.0	15294.0	14747.0	14171.5	13618.5	12965.4	12102.1	10816.4	10504.2	7375.6
35°	16634.8	16655.2	16292.0	15836.8	15245.0	14785.8	14163.4	13089.9	11763.3	11500.1	8093.9
37.5°	17173.6	17200.1	16989.9	16647.1	16277.7	16047.1	15467.5	14361.3	12914.4	12755.2	8942.9
40°	17275.6	17306.2	17214.4	17122.6	17102.2	17267.5	17098.1	15859.3	14510.3	14261.3	10208.2
42.5°	16969.5	17010.3	17051.1	17255.2	17671.6	18277.7	18867.5	17892.0	16565.4	16230.7	11755.2
45°	16165.4	16161.3	16322.6	16851.1	17783.8	19077.7	20716.5	20436.9	19365.4	18967.5	13940.9
47.5°	14789.9	14769.5	15118.5	15871.5	17324.6	19224.6	22224.6	23526.7	22938.9	22571.6	16289.9
50°	12694.0	12794.0	13343.0	14394.0	16183.8	18779.7	22690.0	25553.2	25871.6	25481.8	18187.9
52.5°	10238.8	10234.8	11096.0	12522.5	14494.0	17800.1	22365.5	25920.6	26824.7	26526.7	19122.6
55°	7577.6	7630.7	8526.6	9965.4	12300.1	16012.4	21306.3	25543.0	27187.9	26977.7	19738.9
57°	5636.8	5730.7	6449.0	7971.5	10389.9	14243.0	19896.1	24867.5	27330.8	27216.5	20251.2
57.5°	5261.3	5265.3	5965.3	7349.0	9830.7	13563.4	19492.0	24585.9	27326.7	27263.5	20334.8
60°	3238.8	3340.8	3824.5	4967.4	7196.0	10585.8	16783.8	22967.5	27114.5	27206.3	20692.0
62.5°	1938.8	1981.6	2295.9	2993.9	4638.8	7726.6	13734.8	20896.1	26561.4	26841.0	20667.5
65°	1246.9	1257.2	1400.0	1812.3	2900.0	5222.5	10583.7	18159.3	25130.8	25645.1	19859.3
67.5°	963.3	979.6	1036.7	1189.8	1681.6	3253.1	7485.8	15238.9	22816.5	23479.8	17900.1
70°	855.1	863.3	883.7	932.7	1112.3	1836.7	4657.2	11904.2	18920.5	19108.3	14008.3
72.5°	698.0	720.4	783.7	800.0	881.6	1146.9	2591.9	7989.9	12712.3	12759.3	7836.8
75°	540.8	544.9	638.8	685.7	742.9	789.8	1157.2	4028.6	6106.2	5779.6	3020.4
77.5°	404.1	422.5	465.3	524.5	606.1	565.3	518.4	1518.4	1895.9	1861.2	877.6
80°	259.2	269.4	324.5	393.9	471.4	369.4	291.8	444.9	416.3	428.6	210.2
82.5°	130.6	132.7	208.2	320.4	300.0	185.7	183.7	181.6	155.1	153.1	98.0
85°	14.3	30.6	134.7	183.7	134.7	61.2	85.7	83.7	81.6	83.7	57.1
87.5°	2.0	2.0	22.4	26.5	18.4	20.4	24.5	26.5	32.7	30.6	24.5
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°	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5
2.5°	2549.0	2467.4	2316.3	2171.4	2063.3	1993.9	1904.1	1871.4	1824.5	1818.4	1795.9
5°	2659.2	2504.1	2240.8	2032.7	1865.3	1738.8	1628.6	1536.7	1463.3	1446.9	1455.1
7.5°	2816.3	2585.7	2218.4	1934.7	1702.1	1485.7	1310.2	1202.0	1124.5	1095.9	1100.0
10°	2993.9	2693.9	2214.3	1830.6	1475.5	1210.2	1018.4	922.5	877.6	861.2	842.9
12.5°	3204.1	2818.4	2204.1	1669.4	1226.5	965.3	828.6	771.4	728.6	716.3	716.3
15°	3440.8	2951.0	2155.1	1469.4	995.9	798.0	706.1	661.2	646.9	634.7	634.7
17.5°	3687.8	3081.7	2053.1	1222.5	826.5	683.7	626.5	600.0	579.6	565.3	565.3
20°	3969.4	3210.2	1889.8	1004.1	698.0	610.2	565.3	534.7	518.4	506.1	502.0
22.5°	4236.8	3314.3	1681.6	824.5	608.2	549.0	508.2	475.5	459.2	453.1	453.1
25°	4514.3	3377.6	1430.6	681.6	555.1	498.0	453.1	426.5	412.2	408.2	406.1
27.5°	4783.7	3414.3	1210.2	595.9	506.1	451.0	408.2	387.8	373.5	369.4	371.4
30°	5110.2	3420.4	995.9	534.7	463.3	406.1	367.3	349.0	340.8	336.7	334.7
32.5°	5440.9	3412.3	836.7	498.0	422.5	367.3	334.7	320.4	314.3	308.2	308.2
35°	5812.3	3369.4	712.2	461.2	383.7	334.7	306.1	293.9	285.7	279.6	277.6
37.5°	6273.5	3347.0	640.8	420.4	349.0	304.1	277.6	265.3	259.2	251.0	249.0
40°	7000.0	3447.0	618.4	383.7	314.3	275.5	251.0	236.7	228.6	220.4	218.4
42.5°	7906.2	3622.5	581.6	346.9	283.7	249.0	224.5	208.2	193.9	183.7	179.6
45°	9079.7	3853.1	524.5	308.2	257.1	220.4	198.0	177.6	159.2	151.0	149.0
47.5°	10310.3	4075.5	473.5	277.6	228.6	195.9	171.4	149.0	132.7	126.5	124.5
50°	11065.4	4120.4	440.8	242.9	200.0	169.4	144.9	124.5	114.3	108.2	108.2
52.5°	11410.3	4049.0	395.9	212.2	173.5	149.0	124.5	108.2	102.0	98.0	95.9
55°	11651.1	3938.8	336.7	183.7	149.0	126.5	110.2	98.0	89.8	85.7	83.7
57°	11791.9	3789.8	291.8	161.2	128.6	110.2	98.0	87.8	79.6	71.4	71.4
57.5°	11798.0	3732.7	279.6	159.2	122.4	106.1	95.9	85.7	75.5	67.3	65.3
60°	11616.4	3340.8	224.5	134.7	98.0	89.8	79.6	67.3	53.1	44.9	42.9
62.5°	11032.7	2842.9	185.7	114.3	79.6	69.4	57.1	51.0	36.7	26.5	26.5
65°	10149.1	2306.1	159.2	91.8	65.3	51.0	38.8	36.7	22.4	12.2	10.2
67.5°	8871.5	1795.9	134.7	75.5	55.1	36.7	26.5	24.5	12.2	4.1	0.0
70°	6759.2	1224.5	112.2	61.2	40.8	26.5	18.4	14.3	8.2	2.0	0.0
72.5°	3895.9	673.5	93.9	46.9	30.6	20.4	14.3	8.2	8.2	0.0	0.0
75°	1391.8	289.8	71.4	34.7	24.5	16.3	10.2	4.1	6.1	2.0	0.0
77.5°	442.9	155.1	46.9	26.5	20.4	12.2	8.2	4.1	4.1	2.0	0.0
80°	130.6	81.6	28.6	22.4	14.3	10.2	6.1	2.0	4.1	2.0	0.0
82.5°	71.4	40.8	22.4	16.3	14.3	8.2	6.1	2.0	2.0	2.0	0.0
85°	36.7	24.5	18.4	16.3	14.3	8.2	6.1	2.0	0.0	2.0	2.0
87.5°	20.4	18.4	18.4	16.3	14.3	10.2	6.1	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)