

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: P459255

Luminaire Tested: **GALN-SA7B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27600 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

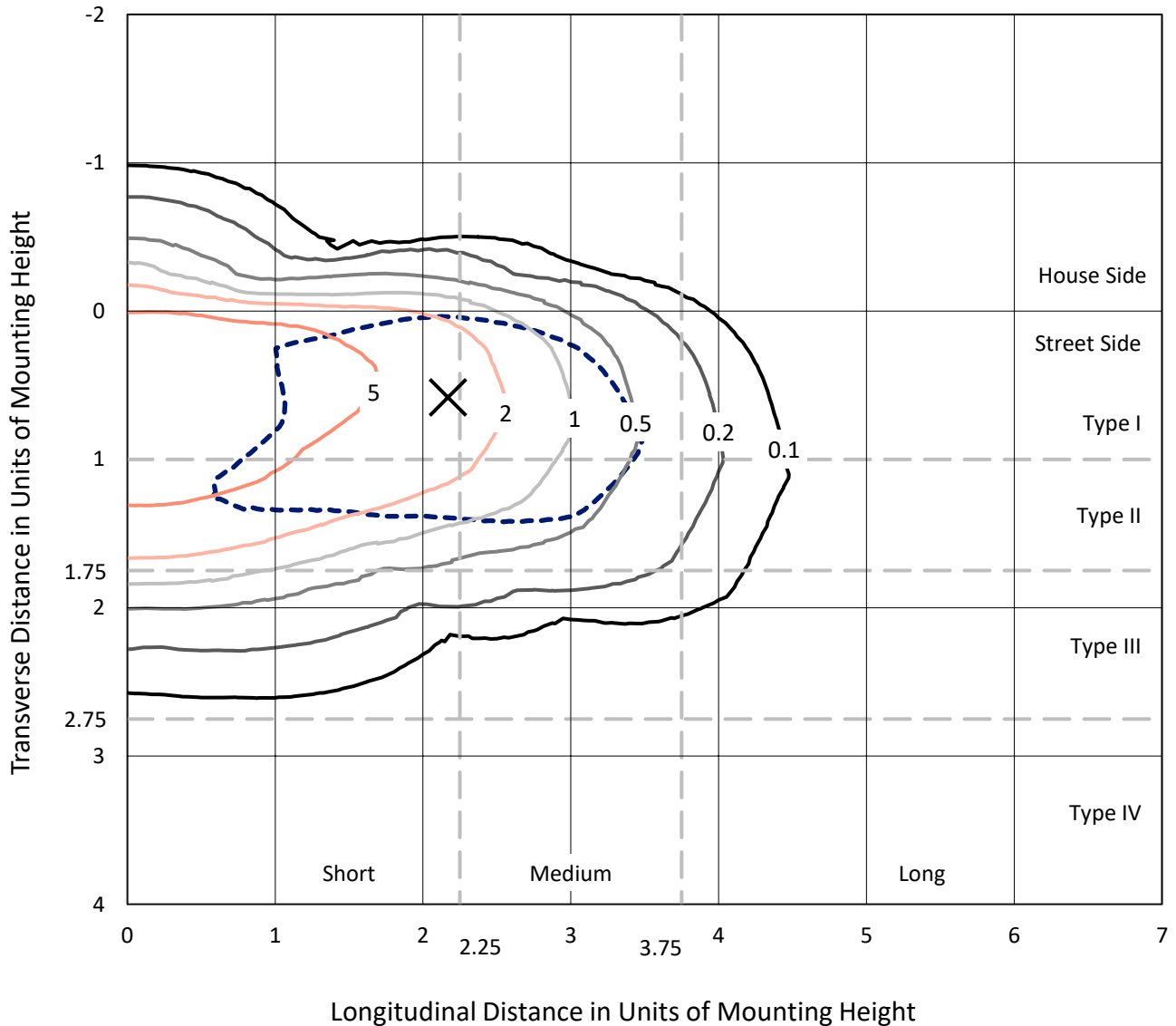
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

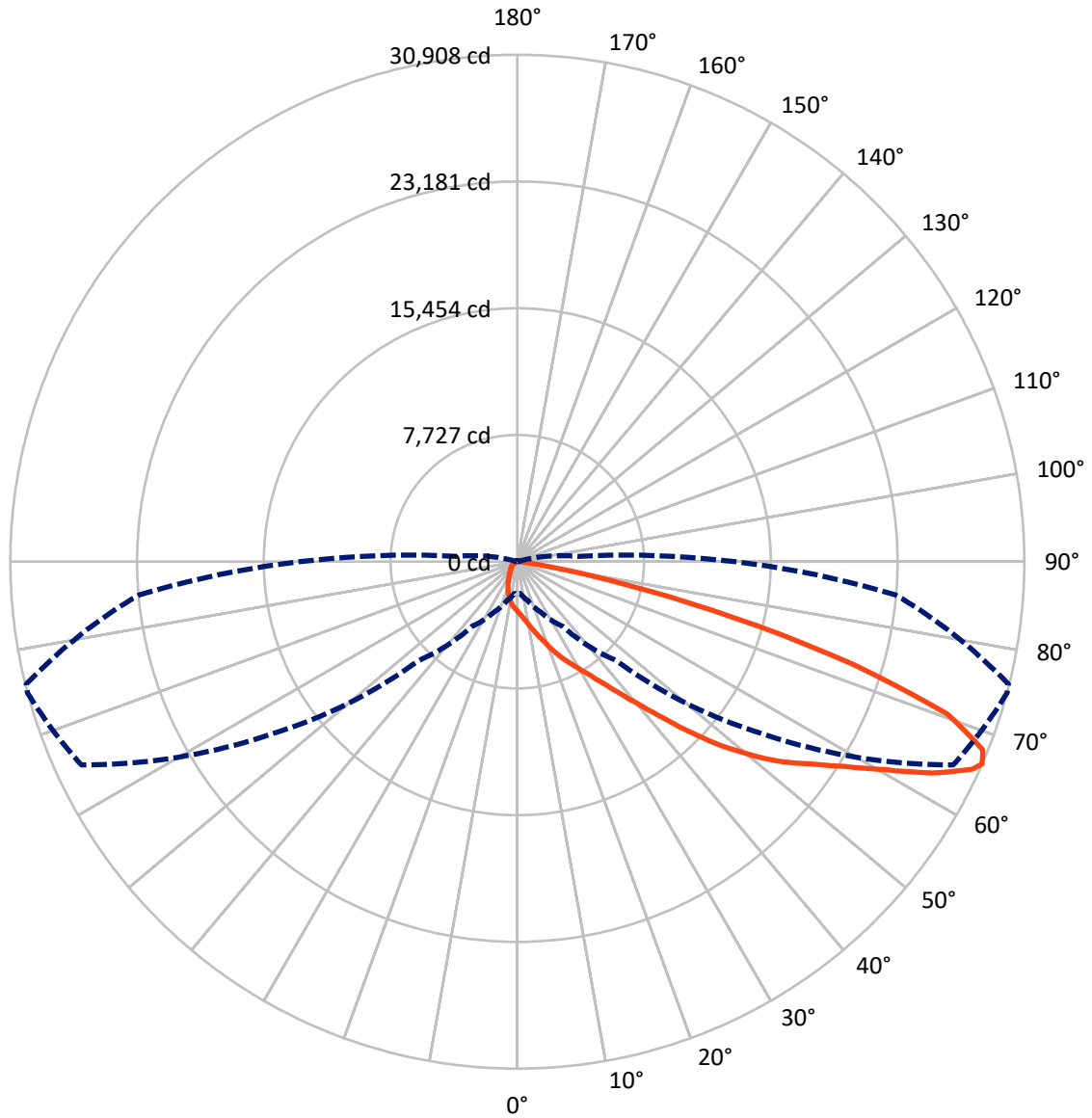
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.9	0.0	1703.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25896.1	0.0	25896.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	27600.0	0.0	27600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.1
10°-20°	856.8	3.1
20°-30°	1479.5	5.4
30°-40°	2668.7	9.7
40°-50°	4821.1	17.5
50°-60°	7516.1	27.2
60°-70°	7139.9	25.9
70°-80°	2675.9	9.7
80°-90°	151.0	0.5
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°	27600.0	100.0
0°-180°	27600.0	100.0

Coefficient of Utilization



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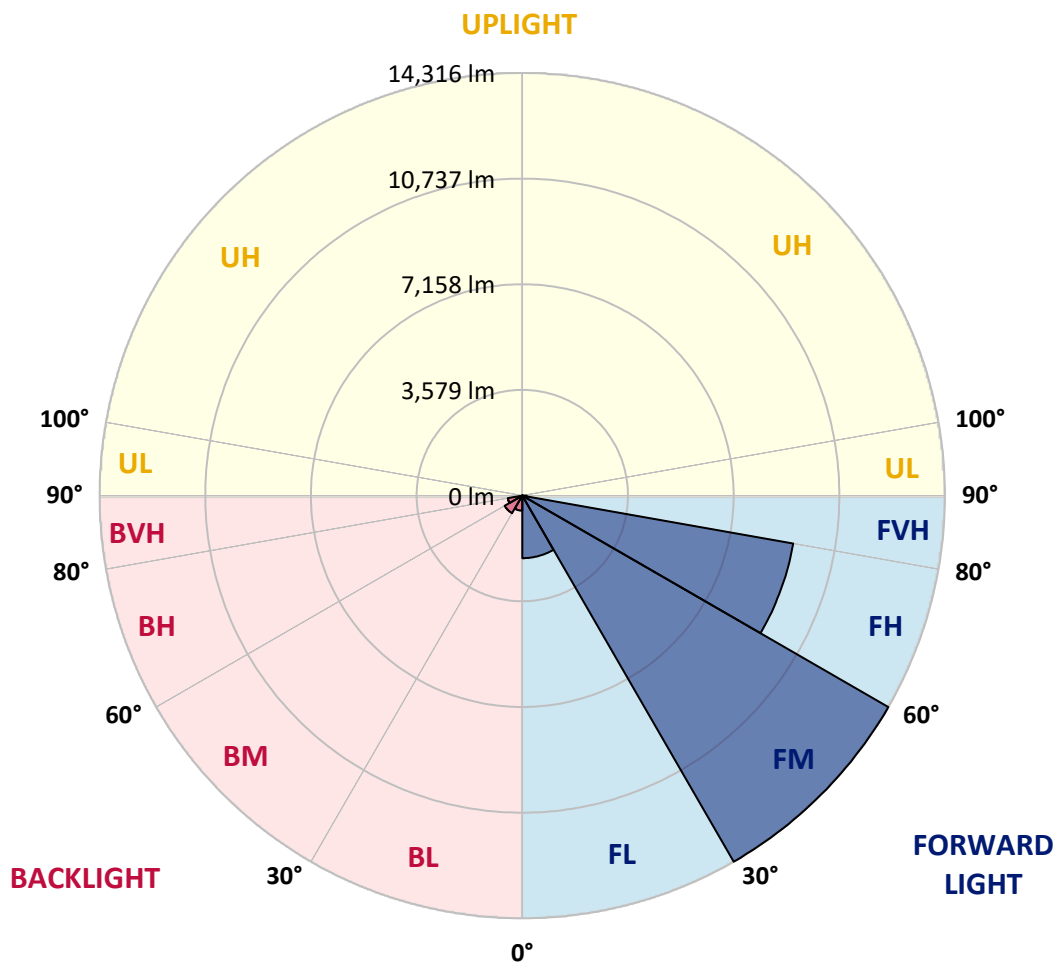
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.5	7.7			
FM (30°-60°)	14316.1	51.9			
FH (60°-80°)	9318.3	33.8			G4/12000
FVH (80°-90°)	143.2	0.5			G2/225
BL (0°-30°)	508.9	1.8	B2/1000		
BM (30°-60°)	689.7	2.5	B1/1000		
BH (60°-80°)	497.6	1.8	B1/500		G1/500
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3
2.5°	3606.1	3561.2	3575.5	3555.1	3508.1	3438.7	3377.5	3289.8	3202.0	3187.7	3089.8
5°	4081.6	4069.3	4053.0	3993.8	3961.2	3855.1	3728.5	3577.5	3395.9	3363.2	3185.7
7.5°	4406.1	4399.9	4408.1	4377.5	4348.9	4253.0	4118.3	3912.2	3630.6	3612.2	3316.3
10°	4512.2	4528.5	4559.1	4608.1	4653.0	4622.4	4520.4	4263.2	3934.6	3881.6	3465.3
12.5°	4451.0	4469.3	4542.8	4673.4	4818.3	4902.0	4861.2	4673.4	4257.1	4214.2	3632.6
15°	4293.8	4316.3	4420.4	4622.4	4881.6	5118.3	5220.3	5085.7	4632.6	4563.2	3834.7
17.5°	4061.2	4093.8	4242.8	4510.2	4865.3	5273.4	5561.2	5516.3	5032.6	4967.3	4055.1
20°	3885.7	3910.2	4036.7	4342.8	4795.9	5359.1	5885.6	6012.2	5526.5	5414.2	4314.2
22.5°	4002.0	4010.2	4053.0	4236.7	4671.4	5381.6	6171.4	6528.5	6051.0	5951.0	4583.6
25°	4571.4	4489.7	4446.9	4406.1	4644.8	5361.2	6430.5	7067.3	6573.4	6467.3	4851.0
27.5°	5469.3	5432.6	5216.3	4926.5	4871.4	5387.7	6602.0	7577.5	7065.2	6950.9	5112.2
30°	6446.9	6383.6	6250.9	5826.5	5399.9	5575.4	6726.5	8073.4	7646.9	7495.8	5351.0
32.5°	7344.8	7385.6	7187.7	6750.9	6257.1	5975.4	6887.7	8614.2	8314.2	8126.4	5628.5
35°	8391.7	8473.4	8169.3	7750.9	7173.4	6697.9	7202.0	9224.4	9161.1	8924.4	6057.1
37.5°	9455.0	9504.0	9318.3	8730.5	8210.1	7616.2	7793.8	9977.4	10204.0	10001.9	6569.3
40°	10348.9	10416.2	10279.5	9757.0	9201.9	8679.5	8653.0	10797.8	11444.8	11236.6	7332.6
42.5°	11032.5	11083.5	11087.6	10718.2	10218.3	9981.5	9748.9	11844.8	12999.9	12759.0	8218.3
45°	11895.8	11969.3	11926.4	11675.4	11301.9	11259.1	11138.6	13110.1	14861.1	14557.0	9367.2
47.5°	13230.5	13279.4	13173.3	12877.4	12497.8	12565.2	12493.7	14528.4	16759.0	16497.8	10557.0
50°	14157.0	14238.6	14389.6	14508.0	14232.5	13983.5	13771.3	15852.9	18561.0	18326.3	11773.3
52.5°	14146.8	14281.5	14759.0	15354.9	15957.0	15881.5	15271.3	17316.1	20281.4	19991.6	12916.2
55°	13193.7	13454.9	14157.0	15214.1	16881.4	17712.0	17434.5	19010.0	21767.1	21571.2	14240.7
57.5°	11226.4	11385.6	12361.1	13838.6	16365.1	18573.3	19940.6	21305.9	23548.7	23456.9	16297.8
60°	7550.9	7622.4	8877.4	10704.0	13932.5	17714.1	21777.3	24083.4	25742.6	25697.7	18699.8
62.5°	4326.5	4357.1	5267.3	6808.1	9914.2	15012.1	21932.4	27509.9	28373.1	28397.6	21479.3
65°	2328.5	2344.9	3079.6	3995.9	6032.6	10699.9	19722.2	29387.4	30499.7	30546.6	23201.8
66°	2010.2	1932.6	2451.0	3406.1	4799.9	8516.2	18324.3	29320.1	30907.8	30856.8	23140.6
67.5°	1528.6	1597.9	1957.1	2618.3	3557.1	6055.0	15128.4	28016.0	30597.6	30438.4	22199.7
70°	1093.9	1122.4	1393.9	1867.3	2422.4	3322.4	9667.2	23269.1	27809.9	27595.6	19340.6
72.5°	706.1	736.7	987.7	1351.0	1751.0	1814.3	5412.2	16812.1	21440.6	21410.0	14565.1
75°	504.1	532.6	653.1	967.3	1316.3	1122.4	2606.1	11330.5	13630.5	13538.6	9010.1
77.5°	365.3	379.6	436.7	632.6	940.8	804.1	1208.1	6051.0	6785.6	7106.0	3981.6
80°	210.2	222.4	304.1	385.7	636.7	549.0	577.5	2428.5	2504.1	2383.6	1244.9
82.5°	104.1	118.4	181.6	263.3	398.0	369.4	265.3	730.6	771.4	751.0	314.3
85°	24.5	30.6	102.0	173.5	193.9	165.3	128.6	214.3	265.3	259.2	120.4
87.5°	2.0	4.1	36.7	30.6	32.7	55.1	44.9	55.1	85.7	79.6	42.9
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°	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3	3018.3
2.5°	3044.9	3006.1	2893.8	2783.6	2691.8	2595.9	2508.1	2457.1	2436.7	2414.3	2424.5
5°	3087.7	2993.8	2767.3	2571.4	2379.6	2216.3	2085.7	2002.0	1961.2	1955.1	1944.9
7.5°	3144.9	2983.6	2632.6	2326.5	2075.5	1893.9	1744.9	1624.5	1587.7	1555.1	1528.6
10°	3214.2	2965.3	2465.3	2069.4	1802.0	1573.5	1377.5	1234.7	1161.2	1140.8	1155.1
12.5°	3287.7	2930.6	2289.8	1832.6	1524.5	1232.6	1051.0	979.6	959.2	951.0	953.1
15°	3361.2	2887.7	2106.1	1604.1	1214.3	983.7	900.0	881.6	873.5	869.4	865.3
17.5°	3428.5	2818.3	1900.0	1381.6	983.7	840.8	810.2	793.9	777.5	771.4	761.2
20°	3508.1	2738.7	1714.3	1132.6	832.6	761.2	724.5	693.9	669.4	653.1	651.0
22.5°	3583.6	2636.7	1520.4	938.8	759.2	683.7	624.5	591.8	563.3	542.9	549.0
25°	3624.4	2512.2	1346.9	818.4	691.8	606.1	540.8	500.0	469.4	459.2	457.1
27.5°	3624.4	2359.2	1177.5	749.0	630.6	536.7	469.4	430.6	410.2	395.9	398.0
30°	3595.9	2189.8	1020.4	695.9	577.5	475.5	412.2	377.5	361.2	351.0	349.0
32.5°	3573.4	2028.5	885.7	644.9	522.4	422.4	367.3	340.8	324.5	314.3	314.3
35°	3608.1	1889.8	781.6	593.9	471.4	381.6	332.6	308.2	291.8	283.7	281.6
37.5°	3700.0	1763.2	702.0	538.8	424.5	346.9	308.2	279.6	263.3	253.1	249.0
40°	3926.5	1691.8	642.8	487.7	379.6	318.4	279.6	253.1	232.7	222.4	220.4
42.5°	4289.7	1693.9	585.7	440.8	344.9	293.9	255.1	224.5	202.0	191.8	189.8
45°	4836.7	1771.4	540.8	395.9	314.3	267.3	228.6	195.9	175.5	165.3	165.3
47.5°	5491.8	1922.4	502.0	357.1	285.7	242.9	202.0	169.4	149.0	140.8	140.8
50°	6202.0	2118.3	463.3	316.3	261.2	216.3	173.5	146.9	130.6	124.5	124.5
52.5°	6926.5	2355.1	424.5	283.7	234.7	187.8	149.0	130.6	116.3	112.2	110.2
55°	7877.5	2657.1	383.7	249.0	206.1	161.2	132.7	114.3	98.0	91.8	89.8
57.5°	9340.7	3112.2	338.8	218.4	169.4	134.7	114.3	95.9	77.6	67.3	65.3
60°	11106.0	3667.3	291.8	191.8	136.7	110.2	91.8	73.5	57.1	44.9	42.9
62.5°	12759.0	4020.4	246.9	161.2	108.2	83.7	65.3	55.1	40.8	28.6	26.5
65°	13489.6	3902.0	204.1	130.6	85.7	59.2	42.9	38.8	24.5	12.2	10.2
66°	13246.8	3726.5	187.8	118.4	77.6	51.0	36.7	32.7	18.4	6.1	6.1
67.5°	12530.5	3312.2	163.3	102.0	67.3	40.8	28.6	24.5	10.2	2.0	0.0
70°	10736.6	2679.6	128.6	75.5	49.0	28.6	16.3	12.2	6.1	0.0	0.0
72.5°	8246.8	1995.9	102.0	57.1	34.7	16.3	8.2	4.1	6.1	0.0	0.0
75°	5053.0	1140.8	79.6	42.9	22.4	10.2	6.1	0.0	6.1	2.0	0.0
77.5°	2242.8	512.2	53.1	28.6	16.3	8.2	4.1	0.0	4.1	2.0	0.0
80°	567.3	167.3	30.6	20.4	12.2	6.1	2.0	0.0	4.1	4.1	2.0
82.5°	155.1	61.2	22.4	16.3	10.2	6.1	2.0	0.0	4.1	4.1	4.1
85°	61.2	28.6	20.4	16.3	12.2	6.1	2.0	0.0	4.1	4.1	4.1
87.5°	28.6	20.4	20.4	18.4	14.3	6.1	2.0	0.0	4.1	2.0	4.1
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)