

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: P456964

Luminaire Tested: **GALN-SA8B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456964
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-SA8B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 31282 lumens
Efficiency: N/A
Efficacy: 96.3 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

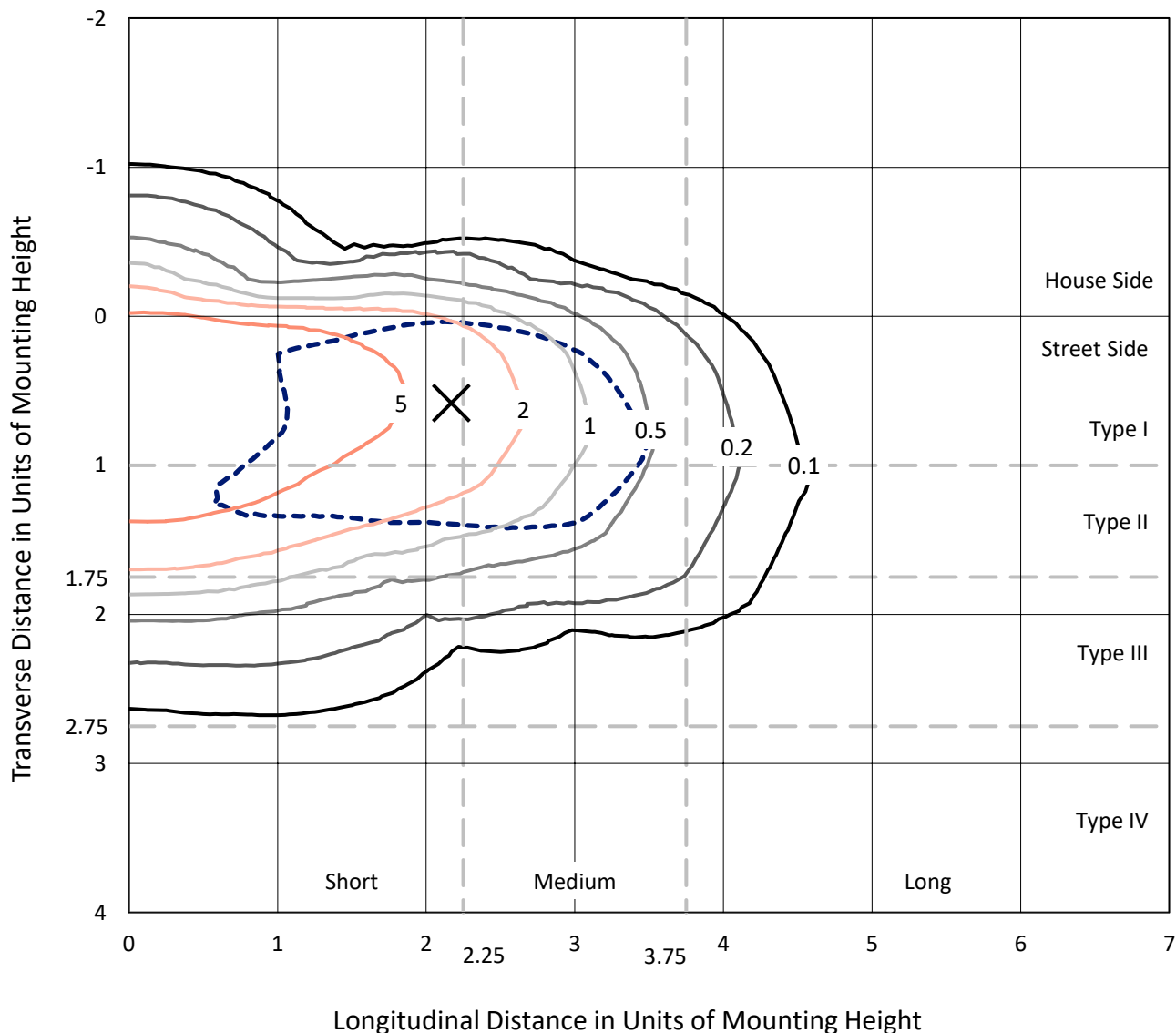
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

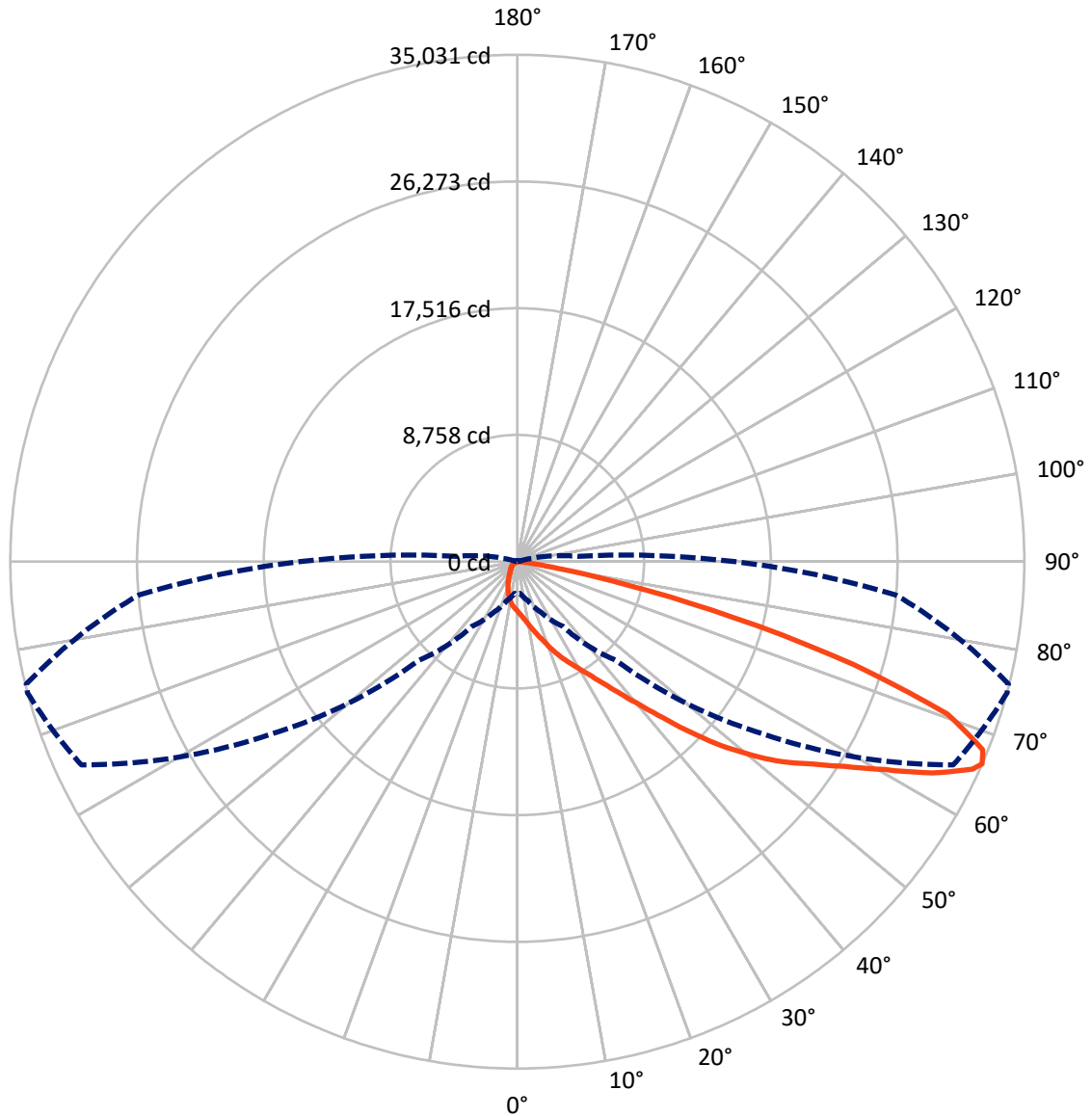
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	1931.2	0.0	1931.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29350.8	0.0	29350.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	31282.0	0.0	31282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	1.1
10°-20°	971.1	3.1
20°-30°	1676.9	5.4
30°-40°	3024.7	9.7
40°-50°	5464.2	17.5
50°-60°	8518.7	27.2
60°-70°	8092.5	25.9
70°-80°	3032.9	9.7
80°-90°	171.1	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°	31282.0	100.0
0°-180°	31282.0	100.0

Coefficient of Utilization



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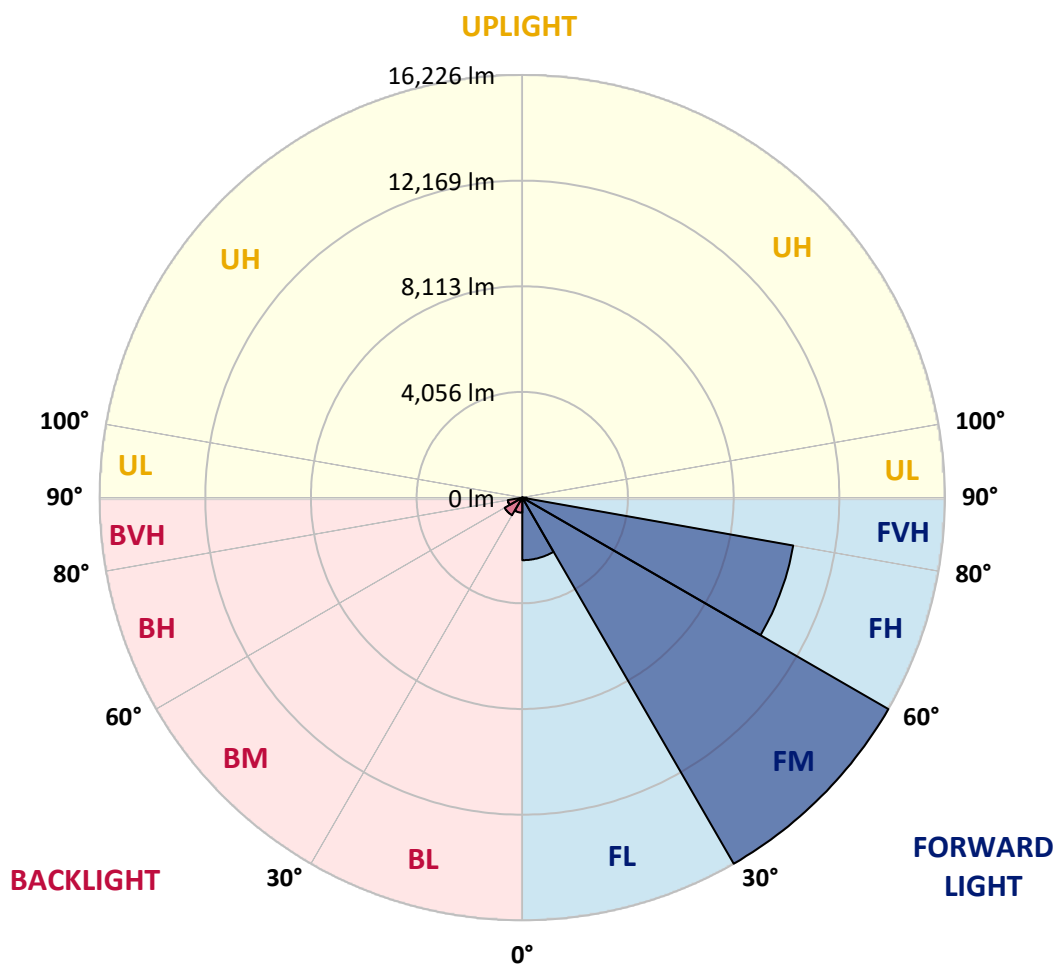
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.2	7.7			
FM (30°-60°)	16226.0	51.9			
FH (60°-80°)	10561.4	33.8			G4/12000
FVH (80°-90°)	162.3	0.5			G2/225
BL (0°-30°)	576.7	1.8	B2/1000		
BM (30°-60°)	781.7	2.5	B1/1000		
BH (60°-80°)	563.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0
2.5°	4087.2	4036.3	4052.5	4029.3	3976.1	3897.5	3828.1	3728.6	3629.2	3613.0	3502.0
5°	4626.1	4612.2	4593.7	4526.6	4489.6	4369.3	4225.9	4054.8	3848.9	3811.9	3610.7
7.5°	4993.9	4986.9	4996.2	4961.5	4929.1	4820.4	4667.7	4434.1	4114.9	4094.1	3758.7
10°	5114.1	5132.7	5167.3	5222.9	5273.7	5239.1	5123.4	4832.0	4459.6	4399.4	3927.6
12.5°	5044.8	5065.6	5148.8	5296.9	5461.1	5555.9	5509.7	5296.9	4825.0	4776.4	4117.2
15°	4866.7	4892.1	5010.1	5239.1	5532.8	5801.1	5916.8	5764.1	5250.6	5172.0	4346.2
17.5°	4603.0	4640.0	4808.8	5111.8	5514.3	5976.9	6303.1	6252.2	5704.0	5630.0	4596.0
20°	4404.0	4431.8	4575.2	4922.2	5435.7	6074.1	6670.8	6814.2	6263.7	6136.5	4889.8
22.5°	4535.9	4545.1	4593.7	4801.9	5294.6	6099.5	6994.7	7399.4	6858.2	6744.8	5195.1
25°	5181.2	5088.7	5040.1	4993.9	5264.5	6076.4	7288.4	8010.1	7450.3	7330.0	5498.1
27.5°	6199.0	6157.3	5912.1	5583.7	5521.2	6106.4	7482.7	8588.3	8007.8	7878.2	5794.2
30°	7306.9	7235.2	7084.9	6603.7	6120.3	6319.2	7623.8	9150.4	8667.0	8495.8	6064.8
32.5°	8324.7	8370.9	8146.6	7651.6	7091.8	6772.6	7806.5	9763.4	9423.4	9210.6	6379.4
35°	9511.2	9603.8	9259.1	8785.0	8130.4	7591.4	8162.7	10455.0	10383.3	10115.0	6865.1
37.5°	10716.3	10771.9	10561.4	9895.2	9305.4	8632.3	8833.5	11308.5	11565.2	11336.2	7445.7
40°	11729.5	11805.8	11650.8	11058.7	10429.5	9837.4	9807.3	12238.3	12971.6	12735.6	8310.8
42.5°	12504.3	12562.2	12566.8	12148.1	11581.4	11313.1	11049.4	13424.9	14734.1	14461.2	9314.6
45°	13482.7	13566.0	13517.4	13232.9	12809.7	12761.1	12624.6	14859.0	16843.6	16499.0	10616.9
47.5°	14995.5	15051.0	14930.7	14595.3	14165.1	14241.4	14160.5	16466.6	18994.7	18698.7	11965.4
50°	16045.6	16138.1	16309.3	16443.4	16131.2	15849.0	15608.4	17967.7	21037.2	20771.2	13344.0
52.5°	16034.0	16186.7	16728.0	17403.4	18085.7	18000.1	17308.5	19626.2	22987.1	22658.6	14639.3
55°	14953.8	15249.9	16045.6	17243.8	19133.5	20074.9	19760.4	21546.0	24671.0	24448.9	16140.4
57.5°	12724.1	12904.5	14010.1	15684.8	18548.3	21051.0	22600.8	24148.2	26690.2	26586.2	18472.0
60°	8558.3	8639.2	10061.8	12131.9	15791.2	20077.2	24682.5	27296.3	29176.8	29125.9	21194.4
62.5°	4903.7	4938.4	5970.0	7716.3	11236.8	17014.8	24858.3	31179.9	32158.3	32186.0	24344.8
65°	2639.2	2657.7	3490.4	4528.9	6837.4	12127.3	22353.3	33307.9	34568.5	34621.7	26297.0
66°	2278.4	2190.5	2778.0	3860.5	5440.3	9652.3	20768.8	33231.5	35031.1	34973.3	26227.6
67.5°	1732.5	1811.1	2218.2	2967.6	4031.6	6862.8	17146.6	31753.5	34679.5	34499.1	25161.3
70°	1239.8	1272.2	1579.8	2116.4	2745.6	3765.6	10956.9	26373.4	31519.9	31277.0	21920.7
72.5°	800.3	835.0	1119.5	1531.2	1984.6	2056.3	6134.2	19054.9	24300.9	24266.2	16508.2
75°	571.3	603.7	740.2	1096.4	1491.9	1272.2	2953.8	12842.0	15448.8	15344.8	10212.1
77.5°	414.0	430.2	495.0	717.0	1066.3	911.3	1369.3	6858.2	7690.9	8054.0	4512.8
80°	238.2	252.1	344.6	437.2	721.7	622.2	654.6	2752.5	2838.1	2701.6	1411.0
82.5°	118.0	134.2	205.9	298.4	451.0	418.7	300.7	828.1	874.3	851.2	356.2
85°	27.8	34.7	115.7	196.6	219.7	187.4	145.7	242.9	300.7	293.8	136.5
87.5°	2.3	4.6	41.6	34.7	37.0	62.5	50.9	62.5	97.1	90.2	48.6
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°	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0
2.5°	3451.1	3407.1	3279.9	3155.0	3050.9	2942.2	2842.7	2784.9	2761.8	2736.3	2747.9
5°	3499.6	3393.2	3136.5	2914.4	2697.0	2512.0	2363.9	2269.1	2222.8	2215.9	2204.3
7.5°	3564.4	3381.7	2983.8	2636.9	2352.4	2146.5	1977.7	1841.2	1799.6	1762.5	1732.5
10°	3643.0	3360.9	2794.2	2345.4	2042.4	1783.4	1561.3	1399.4	1316.1	1293.0	1309.2
12.5°	3726.3	3321.5	2595.2	2077.1	1727.8	1397.1	1191.2	1110.3	1087.1	1077.9	1080.2
15°	3809.6	3273.0	2387.1	1818.1	1376.3	1114.9	1020.1	999.2	990.0	985.4	980.7
17.5°	3885.9	3194.3	2153.4	1565.9	1114.9	953.0	918.3	899.8	881.3	874.3	862.8
20°	3976.1	3104.1	1943.0	1283.7	943.7	862.8	821.1	786.4	758.7	740.2	737.9
22.5°	4061.7	2988.5	1723.2	1064.0	860.5	774.9	707.8	670.8	638.4	615.3	622.2
25°	4108.0	2847.4	1526.6	927.5	784.1	687.0	613.0	566.7	532.0	520.4	518.1
27.5°	4108.0	2673.9	1334.6	848.9	714.7	608.3	532.0	488.1	464.9	448.7	451.0
30°	4075.6	2481.9	1156.5	788.7	654.6	538.9	467.2	427.9	409.4	397.8	395.5
32.5°	4050.1	2299.2	1003.9	730.9	592.1	478.8	416.3	386.3	367.8	356.2	356.2
35°	4089.5	2141.9	885.9	673.1	534.3	432.5	377.0	349.3	330.8	321.5	319.2
37.5°	4193.6	1998.5	795.7	610.6	481.1	393.2	349.3	316.9	298.4	286.8	282.2
40°	4450.3	1917.5	728.6	552.8	430.2	360.8	316.9	286.8	263.7	252.1	249.8
42.5°	4862.0	1919.8	663.8	499.6	390.9	333.1	289.1	254.4	229.0	217.4	215.1
45°	5481.9	2007.7	613.0	448.7	356.2	303.0	259.1	222.1	198.9	187.4	187.4
47.5°	6224.4	2178.9	569.0	404.8	323.8	275.3	229.0	192.0	168.9	159.6	159.6
50°	7029.3	2400.9	525.1	358.5	296.1	245.2	196.6	166.5	148.0	141.1	141.1
52.5°	7850.5	2669.3	481.1	321.5	266.0	212.8	168.9	148.0	131.8	127.2	124.9
55°	8928.4	3011.6	434.9	282.2	233.6	182.7	150.3	129.5	111.0	104.1	101.8
57.5°	10586.8	3527.4	384.0	247.5	192.0	152.7	129.5	108.7	87.9	76.3	74.0
60°	12587.6	4156.5	330.8	217.4	155.0	124.9	104.1	83.3	64.8	50.9	48.6
62.5°	14461.2	4556.7	279.9	182.7	122.6	94.8	74.0	62.5	46.3	32.4	30.1
65°	15289.2	4422.5	231.3	148.0	97.1	67.1	48.6	43.9	27.8	13.9	11.6
66°	15014.0	4223.6	212.8	134.2	87.9	57.8	41.6	37.0	20.8	6.9	6.9
67.5°	14202.1	3754.1	185.0	115.7	76.3	46.3	32.4	27.8	11.6	2.3	0.0
70°	12168.9	3037.0	145.7	85.6	55.5	32.4	18.5	13.9	6.9	0.0	0.0
72.5°	9347.0	2262.2	115.7	64.8	39.3	18.5	9.3	4.6	6.9	0.0	0.0
75°	5727.1	1293.0	90.2	48.6	25.4	11.6	6.9	0.0	6.9	2.3	0.0
77.5°	2542.0	580.6	60.1	32.4	18.5	9.3	4.6	0.0	4.6	2.3	0.0
80°	643.0	189.7	34.7	23.1	13.9	6.9	2.3	0.0	4.6	4.6	2.3
82.5°	175.8	69.4	25.4	18.5	11.6	6.9	2.3	0.0	4.6	4.6	4.6
85°	69.4	32.4	23.1	18.5	13.9	6.9	2.3	0.0	4.6	4.6	4.6
87.5°	32.4	23.1	23.1	20.8	16.2	6.9	2.3	0.0	4.6	2.3	4.6
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)