

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: P529583

Luminaire Tested: **GALN-SA4D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16268 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

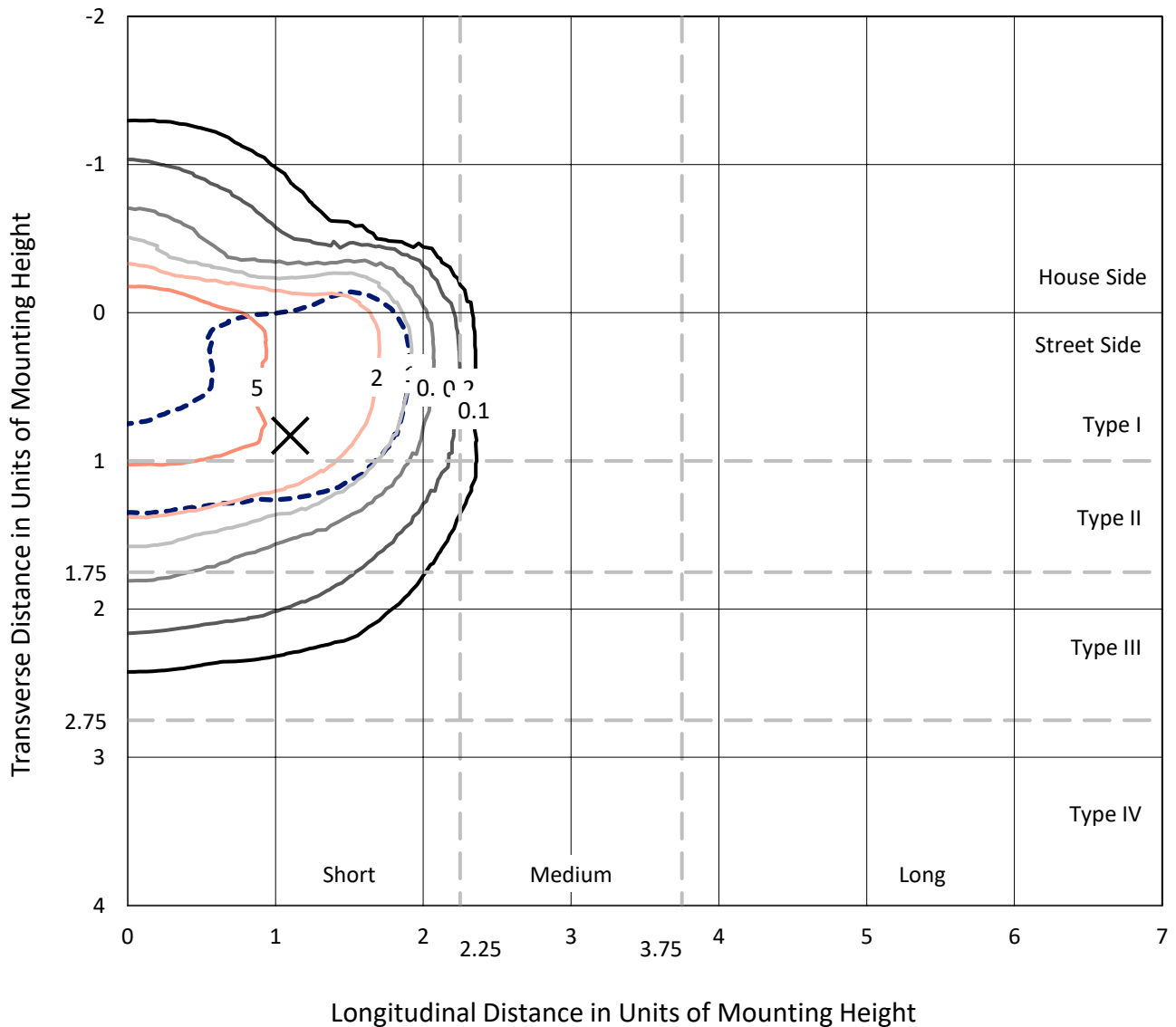
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

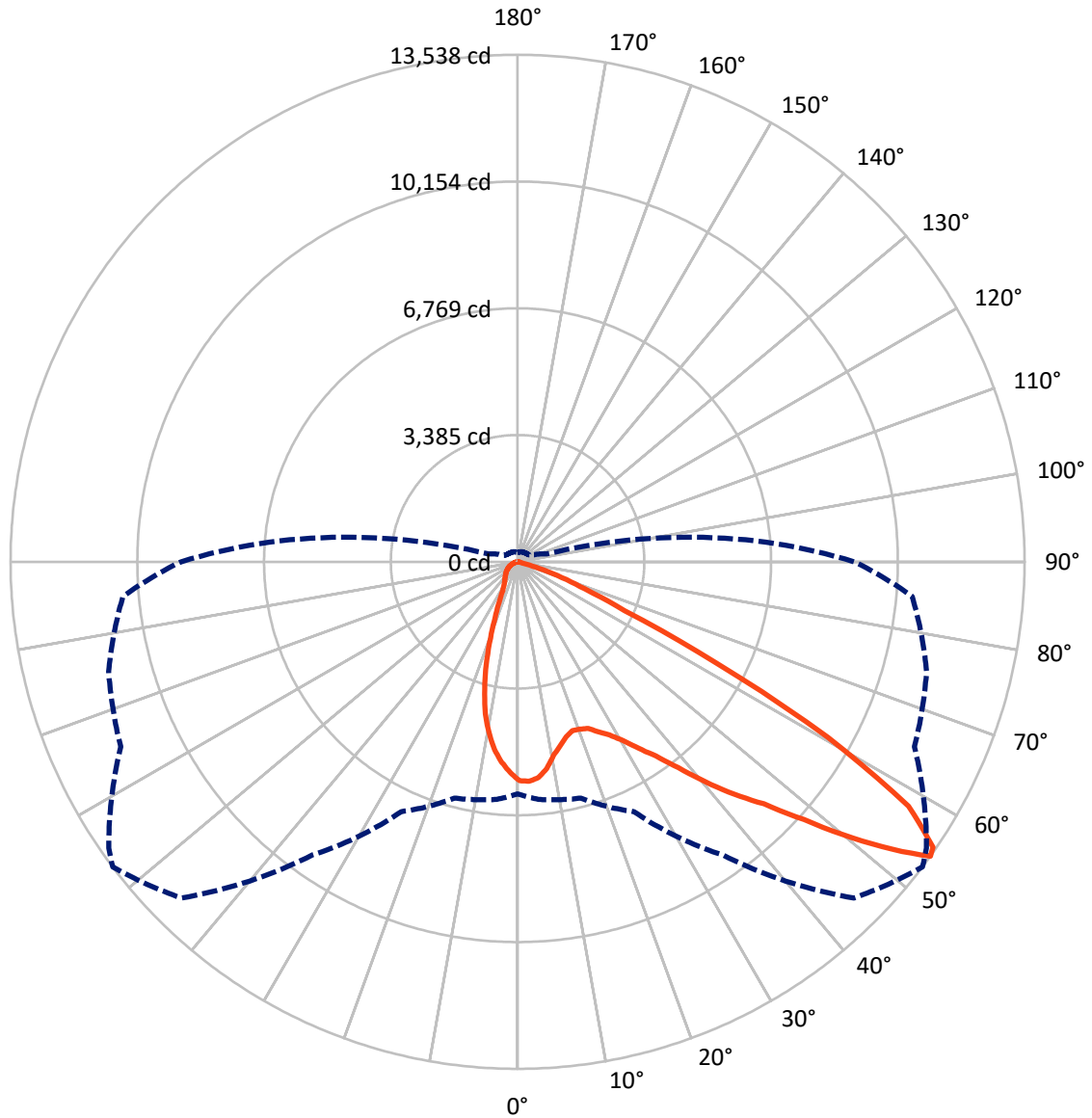
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.6	0.0	2691.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13576.4	0.0	13576.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	16268.0	0.0	16268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.3	3.1
10°-20°	1149.4	7.1
20°-30°	1633.5	10.0
30°-40°	2521.0	15.5
40°-50°	3952.7	24.3
50°-60°	4591.6	28.2
60°-70°	1735.0	10.7
70°-80°	165.0	1.0
80°-90°	18.6	0.1
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°	16268.0	100.0
0°-180°	16268.0	100.0

Coefficient of Utilization



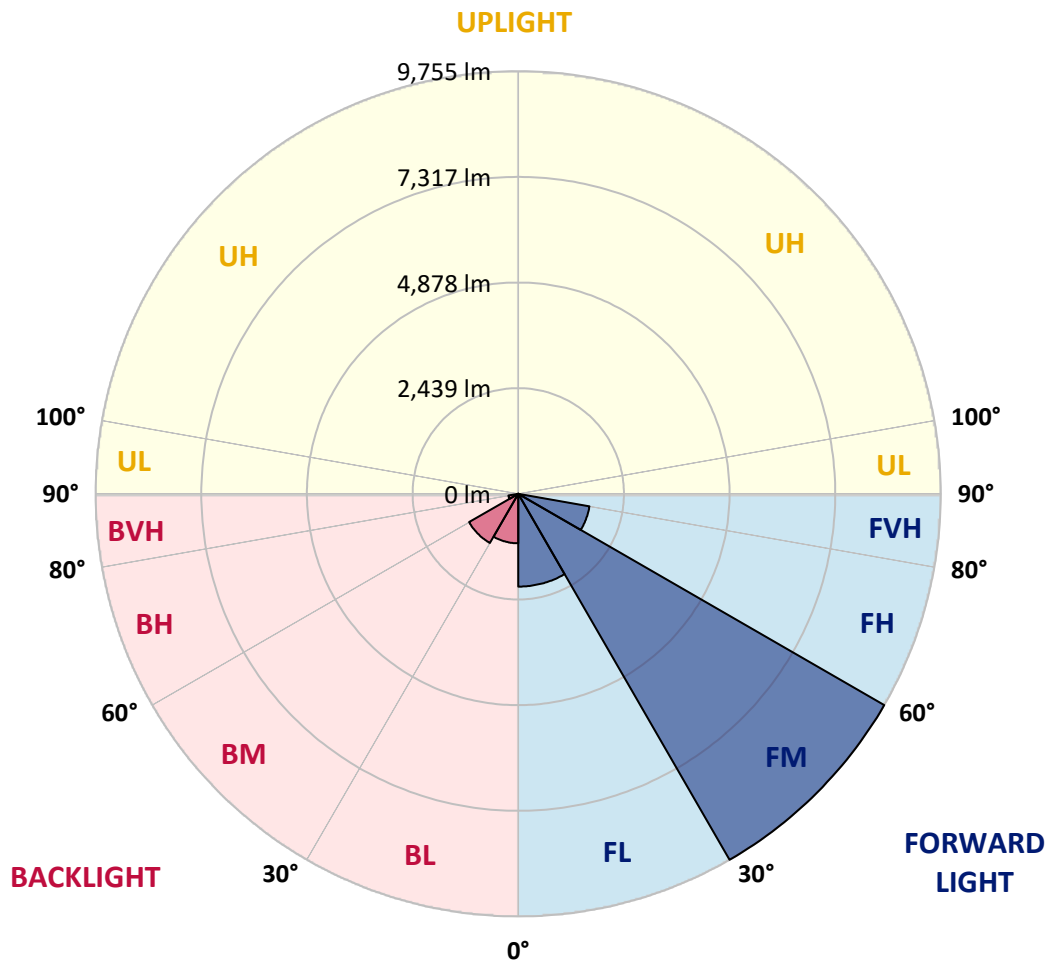
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.1	13.2			
FM (30°-60°)	9755.4	60.0			
FH (60°-80°)	1669.3	10.3			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	1142.2	7.0	B3/2500		
BM (30°-60°)	1309.8	8.1	B2/2500		
BH (60°-80°)	230.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2
2.5°	5812.9	5761.4	5812.9	5818.9	5855.3	5888.7	5867.4	5915.9	5888.7	5858.3	5849.3
5°	5343.1	5412.8	5415.9	5525.0	5500.7	5700.7	5788.6	5764.4	5912.9	5903.8	5882.6
7.5°	4921.9	4894.6	4931.0	5058.2	5218.9	5449.2	5576.5	5573.5	5785.6	5937.1	5922.0
10°	4530.9	4527.9	4603.6	4703.6	4840.0	5082.5	5258.3	5346.2	5676.5	5906.8	5940.2
12.5°	4267.2	4255.1	4336.9	4418.8	4633.9	4821.8	5046.1	5088.5	5467.4	5800.8	5855.3
15°	4094.5	4121.8	4127.8	4285.4	4421.8	4670.3	4846.1	4934.0	5370.4	5715.9	5925.0
17.5°	4064.2	4100.5	4103.6	4233.9	4379.4	4588.5	4743.0	4861.2	5288.6	5758.3	5928.1
20°	4124.8	4103.6	4121.8	4203.6	4346.0	4546.1	4770.3	4809.7	5261.3	5779.5	5961.4
22.5°	4297.5	4291.5	4246.0	4312.7	4412.7	4621.8	4834.0	4894.6	5340.1	5888.7	5988.7
25°	4488.5	4521.8	4479.4	4470.3	4540.0	4746.1	5027.9	5106.7	5603.8	6085.6	6073.5
27.5°	4846.1	4812.8	4812.8	4770.3	4752.1	4852.2	5237.1	5367.4	5897.7	6340.2	6170.5
30°	5188.6	5224.9	5197.7	5212.8	5091.6	5082.5	5534.1	5694.7	6419.0	6728.2	6376.6
32.5°	5731.1	5682.6	5728.0	5688.6	5528.0	5364.3	5937.1	6103.8	7049.4	7173.7	6685.7
35°	6182.6	6161.4	6355.4	6349.3	6088.7	5928.1	6364.5	6613.0	7488.9	7707.1	7049.4
37.5°	6825.1	6785.7	7007.0	7113.1	6879.7	6640.3	6976.7	7264.6	7898.0	8134.4	7422.2
40°	7485.8	7585.8	7882.9	8058.6	7810.1	7491.9	7725.3	7813.1	8170.8	8413.2	7676.8
42.5°	8322.3	8467.8	8770.8	8922.4	8901.2	8555.7	8486.0	8482.9	8367.8	8334.4	7864.7
45°	9125.4	9070.9	9537.6	9868.0	10134.7	10034.7	9219.4	9128.5	8679.9	8452.6	7913.2
47.5°	9477.0	9458.8	9777.0	10365.0	11274.2	11398.5	10286.2	9934.6	9207.3	8949.7	8176.8
50°	9022.4	9116.3	9431.5	10083.1	11477.3	12425.9	11595.5	11122.7	9822.5	9555.8	8801.2
52.5°	7537.4	7601.0	7901.0	8728.4	10786.3	13032.0	12850.2	12577.4	10953.0	10510.5	9889.2
54°	6197.8	6367.5	6531.2	7361.6	9555.8	12695.6	13538.1	13329.0	11689.4	11304.5	10574.1
55°	5397.7	5497.7	5615.9	6443.3	8704.2	12125.8	13459.3	13477.5	12183.4	11553.0	11034.8
57.5°	3942.9	4012.6	3891.4	4258.1	5976.5	9846.7	12310.7	12801.7	12850.2	11925.8	11316.6
60°	3012.5	3042.8	2906.4	2964.0	3715.6	6758.5	9522.5	10113.4	11592.4	10422.6	9586.1
62.5°	2336.7	2342.7	2339.7	2439.7	2560.9	3976.3	5955.3	6479.6	7992.0	7401.0	6509.9
65°	1721.4	1694.2	1742.7	2045.7	2185.1	2500.3	3136.8	3518.6	4343.0	3667.1	2621.6
67.5°	1115.3	1124.4	1172.9	1521.4	1873.0	1918.4	1930.6	1900.2	1903.3	1048.6	657.7
70°	669.8	684.9	669.8	860.7	1339.6	1375.9	1257.7	1227.4	957.7	248.5	245.5
72.5°	397.0	375.8	336.4	369.7	557.6	666.8	600.1	597.0	375.8	145.5	145.5
75°	166.7	151.5	124.3	112.1	148.5	142.4	142.4	127.3	100.0	97.0	90.9
77.5°	33.3	33.3	24.2	27.3	36.4	42.4	51.5	51.5	60.6	60.6	57.6
80°	0.0	3.0	9.1	18.2	27.3	39.4	45.5	45.5	51.5	51.5	42.4
82.5°	0.0	3.0	9.1	18.2	24.2	36.4	45.5	45.5	51.5	54.6	45.5
85°	0.0	3.0	9.1	15.2	24.2	30.3	30.3	27.3	21.2	18.2	12.1
87.5°	0.0	0.0	3.0	6.1	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2
2.5°	5870.5	5867.4	5794.7	5676.5	5649.2	5549.2	5537.1	5476.5	5509.8	5397.7	5385.6
5°	5822.0	5785.6	5697.7	5622.0	5400.7	5243.1	5118.9	4967.3	4879.4	4894.6	4837.0
7.5°	5891.7	5797.7	5643.2	5379.5	5109.8	4834.0	4685.5	4376.3	4264.2	4097.5	4073.3
10°	5818.9	5749.2	5509.8	5073.4	4700.6	4303.6	3955.1	3612.6	3352.0	3239.8	3215.6
12.5°	5812.9	5691.7	5291.6	4806.7	4267.2	3697.5	3191.3	2764.0	2506.4	2360.9	2327.6
15°	5718.9	5573.5	5046.1	4394.5	3649.0	2939.8	2388.2	1976.0	1779.0	1694.2	1718.4
17.5°	5728.0	5509.8	4800.6	3958.1	3039.8	2157.9	1630.5	1418.4	1366.8	1388.1	1388.1
20°	5718.9	5367.4	4503.6	3455.0	2327.6	1497.2	1197.1	1121.4	1154.7	1221.4	1206.2
22.5°	5670.4	5300.7	4230.9	2924.6	1712.3	1109.2	960.7	963.8	1015.3	1097.1	1115.3
25°	5706.8	5152.2	3885.4	2388.2	1248.6	885.0	833.4	854.7	909.2	969.8	981.9
27.5°	5679.5	5046.1	3524.7	1854.8	912.2	760.7	757.7	781.9	806.2	851.6	851.6
30°	5709.8	4949.1	3170.1	1379.0	751.6	697.1	684.9	703.1	727.4	736.5	733.4
32.5°	5822.0	4876.4	2761.0	1030.4	663.7	636.4	636.4	636.4	633.4	645.5	648.6
35°	6067.5	4888.5	2400.3	797.1	606.1	584.9	575.8	563.7	557.6	563.7	566.7
37.5°	6334.2	4882.5	2027.5	678.9	563.7	545.5	524.3	506.1	503.1	509.2	500.1
40°	6452.4	4940.0	1682.0	609.2	524.3	503.1	469.8	454.6	457.6	463.7	457.6
42.5°	6613.0	4958.2	1457.8	554.6	487.9	454.6	433.4	415.2	412.2	421.3	418.2
45°	6610.0	4855.2	1221.4	524.3	454.6	418.2	391.0	375.8	375.8	381.9	384.9
47.5°	6803.9	4840.0	1048.6	497.0	430.4	394.0	360.7	348.5	345.5	345.5	339.4
50°	7255.5	5052.2	915.3	466.7	400.1	366.7	339.4	324.3	312.2	306.1	303.1
52.5°	8137.4	5712.9	812.2	430.4	366.7	339.4	315.2	303.1	287.9	272.8	269.7
54°	8992.1	6394.8	806.2	400.1	339.4	321.3	300.0	294.0	275.8	254.6	248.5
55°	9377.0	6791.8	827.4	375.8	321.3	309.1	290.9	284.9	266.7	242.5	239.4
57.5°	9695.2	6946.4	815.3	312.2	290.9	287.9	272.8	263.7	242.5	209.1	203.1
60°	7804.1	5252.2	584.9	275.8	266.7	260.6	248.5	242.5	215.2	178.8	175.8
62.5°	4931.0	3021.6	372.8	242.5	233.4	224.3	209.1	203.1	178.8	142.4	133.4
65°	2100.3	1251.7	251.5	215.2	200.0	184.9	172.7	163.7	142.4	106.1	103.0
67.5°	545.5	445.5	209.1	187.9	166.7	145.5	136.4	121.2	97.0	72.7	69.7
70°	245.5	224.3	175.8	157.6	133.4	112.1	100.0	84.9	63.6	48.5	45.5
72.5°	145.5	142.4	133.4	118.2	100.0	84.9	72.7	57.6	42.4	27.3	27.3
75°	90.9	87.9	90.9	81.8	69.7	63.6	54.6	39.4	24.2	12.1	12.1
77.5°	54.6	54.6	54.6	51.5	48.5	48.5	39.4	24.2	12.1	3.0	3.0
80°	42.4	42.4	45.5	42.4	42.4	42.4	33.3	18.2	6.1	0.0	0.0
82.5°	42.4	45.5	51.5	48.5	42.4	36.4	30.3	18.2	6.1	0.0	0.0
85°	12.1	9.1	15.2	21.2	30.3	27.3	21.2	15.2	6.1	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	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)