

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: P455108

Luminaire Tested: **GALN-SA6B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455108
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-SA6B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 22972 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

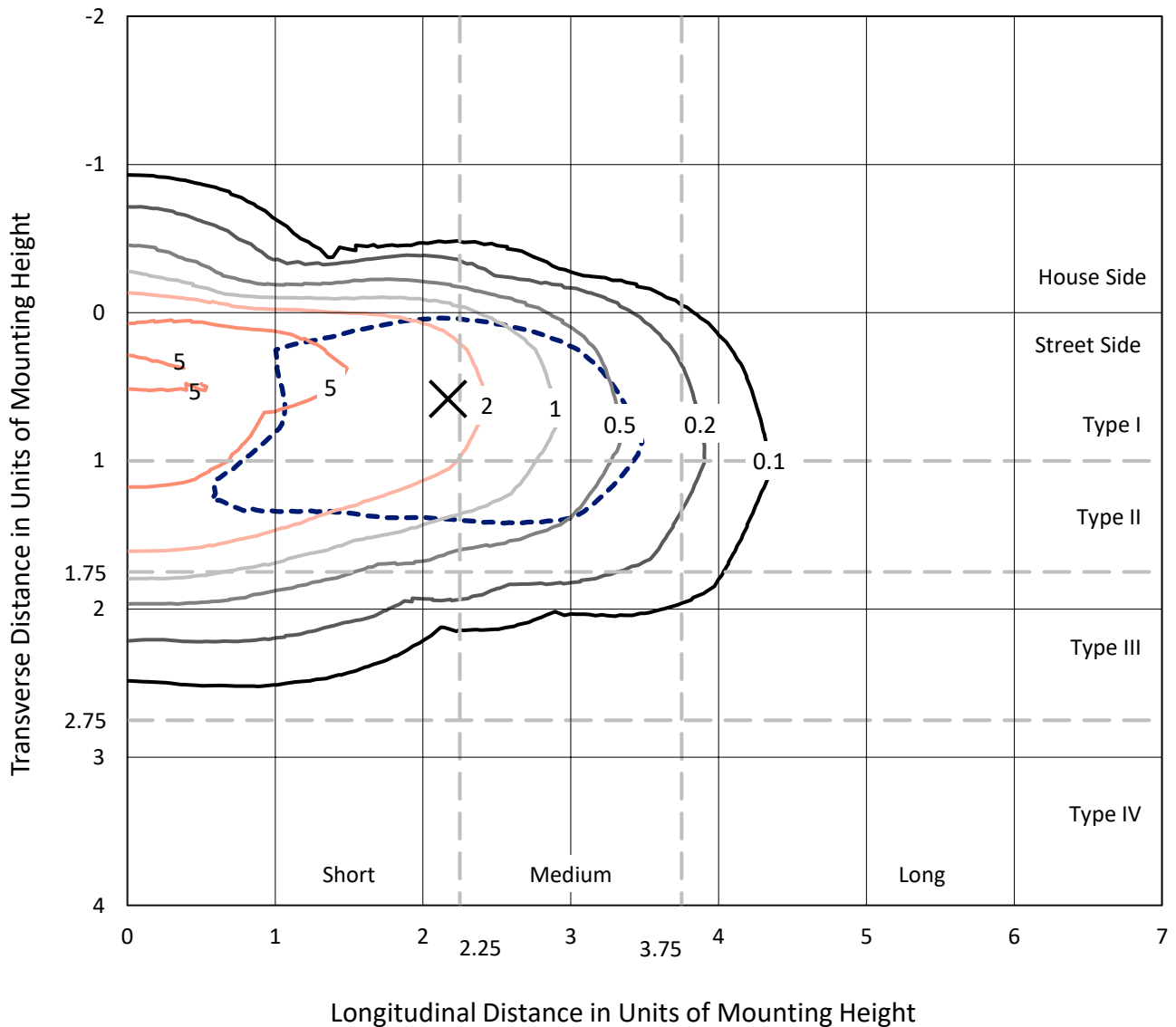
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

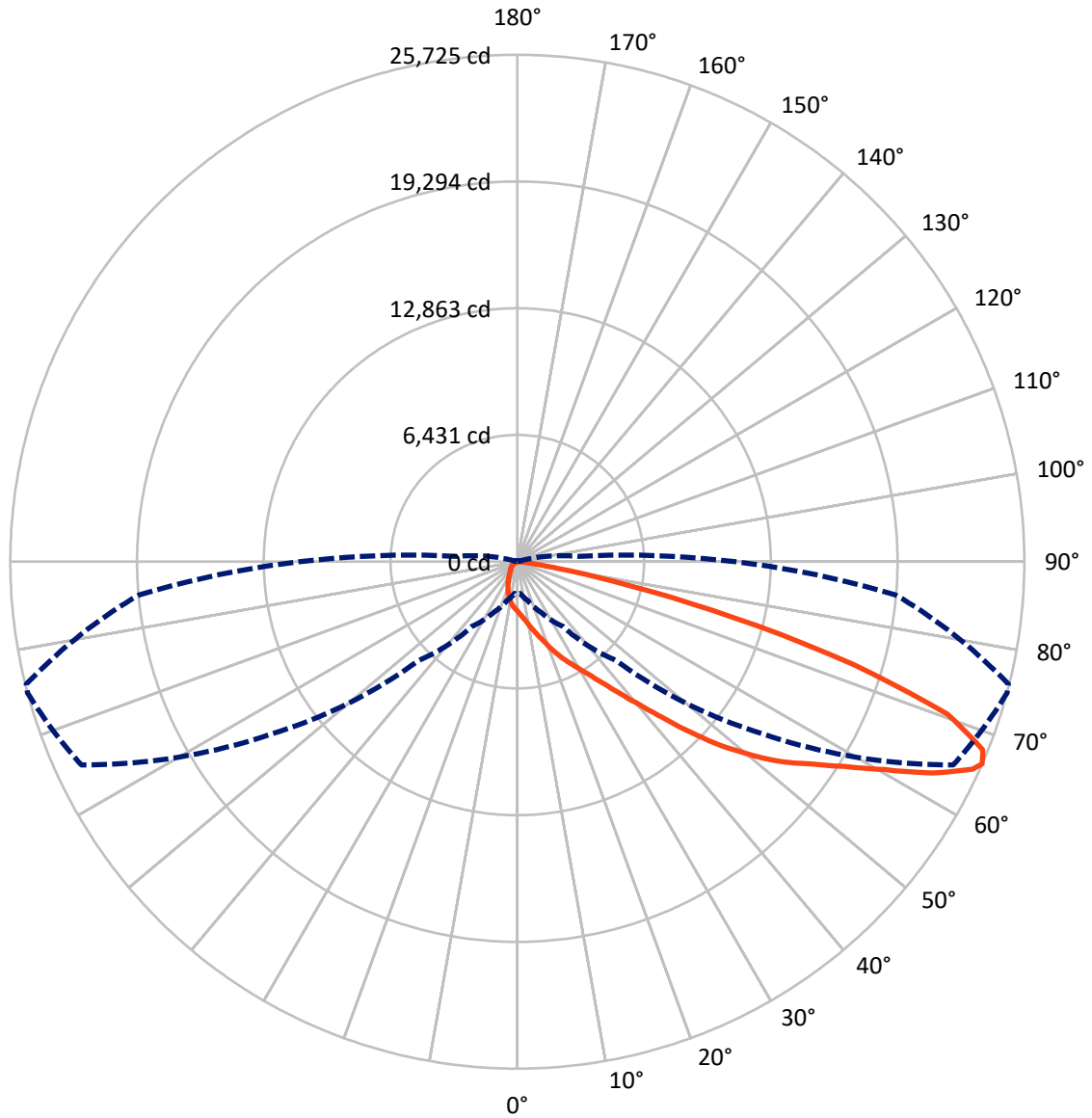
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1418.2	0.0	1418.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21553.8	0.0	21553.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	22972.0	0.0	22972.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.1
10°-20°	713.1	3.1
20°-30°	1231.4	5.4
30°-40°	2221.2	9.7
40°-50°	4012.7	17.5
50°-60°	6255.8	27.2
60°-70°	5942.7	25.9
70°-80°	2227.2	9.7
80°-90°	125.7	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°	22972.0	100.0
0°-180°	22972.0	100.0



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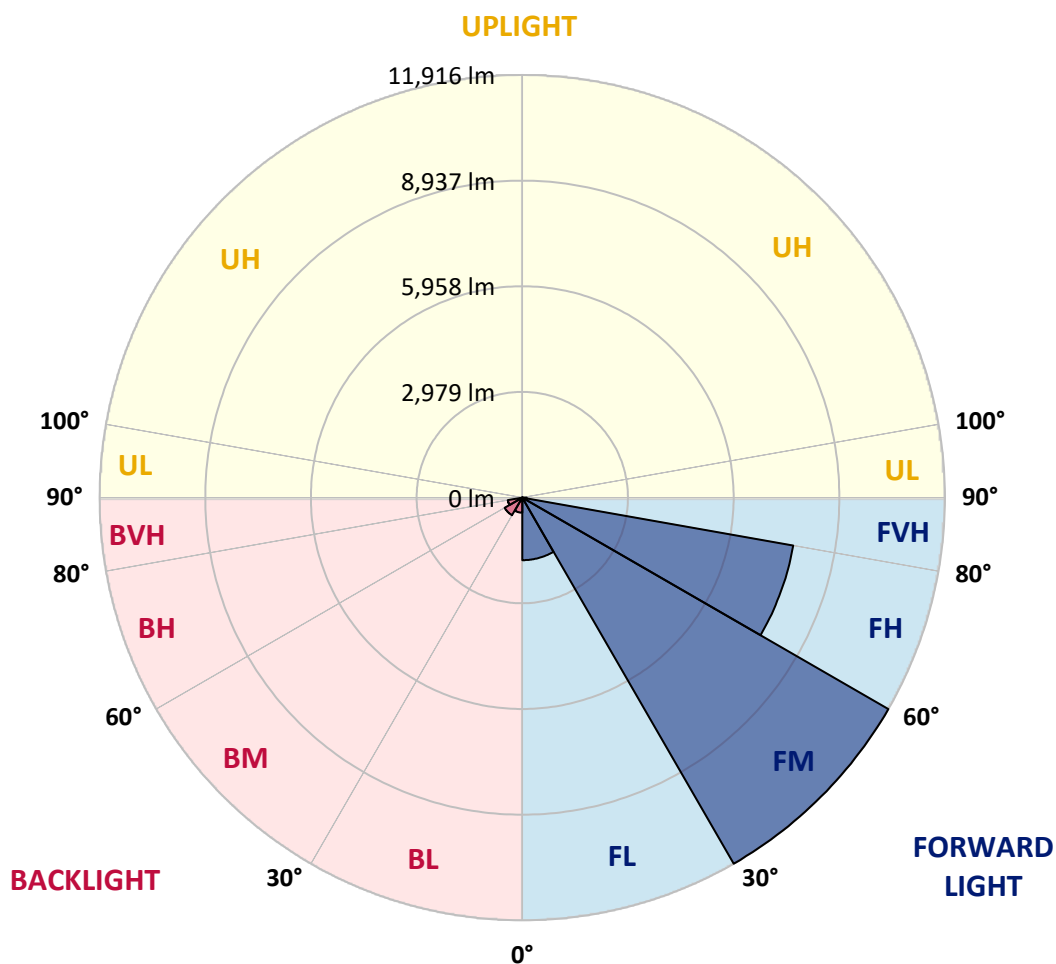
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.3	7.7			
FM (30°-60°)	11915.6	51.9			
FH (60°-80°)	7755.8	33.8			G4/12000
FVH (80°-90°)	119.2	0.5			G2/225
BL (0°-30°)	423.5	1.8	B1/500		
BM (30°-60°)	574.0	2.5	B1/1000		
BH (60°-80°)	414.1	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2
2.5°	3001.4	2964.0	2975.9	2958.9	2919.9	2862.1	2811.2	2738.1	2665.1	2653.2	2571.7
5°	3397.2	3387.0	3373.4	3324.1	3297.0	3208.6	3103.3	2977.6	2826.5	2799.3	2651.5
7.5°	3667.3	3662.2	3669.0	3643.5	3619.7	3539.9	3427.8	3256.2	3021.8	3006.5	2760.2
10°	3755.6	3769.2	3794.7	3835.4	3872.8	3847.3	3762.4	3548.4	3274.9	3230.7	2884.2
12.5°	3704.6	3719.9	3781.1	3889.8	4010.4	4080.0	4046.0	3889.8	3543.3	3507.6	3023.5
15°	3573.8	3592.5	3679.1	3847.3	4063.0	4260.1	4345.0	4232.9	3855.8	3798.0	3191.7
17.5°	3380.2	3407.4	3531.4	3753.9	4049.4	4389.2	4628.7	4591.3	4188.7	4134.4	3375.1
20°	3234.1	3254.5	3359.8	3614.6	3991.7	4460.5	4898.7	5004.0	4599.8	4506.4	3590.8
22.5°	3330.9	3337.7	3373.4	3526.3	3888.1	4479.2	5136.5	5433.8	5036.3	4953.1	3815.0
25°	3804.8	3736.9	3701.2	3667.3	3866.0	4462.2	5352.3	5882.2	5471.2	5382.8	4037.5
27.5°	4552.2	4521.6	4341.6	4100.4	4054.5	4484.3	5494.9	6306.9	5880.5	5785.4	4255.0
30°	5365.8	5313.2	5202.8	4849.5	4494.5	4640.5	5598.6	6719.6	6364.6	6238.9	4453.7
32.5°	6113.2	6147.2	5982.4	5618.9	5207.9	4973.5	5732.7	7169.8	6920.1	6763.8	4684.7
35°	6984.6	7052.5	6799.5	6451.2	5970.5	5574.8	5994.3	7677.6	7625.0	7427.9	5041.4
37.5°	7869.6	7910.3	7755.8	7266.6	6833.4	6339.1	6486.9	8304.4	8493.0	8324.8	5467.8
40°	8613.6	8669.6	8555.8	8121.0	7658.9	7224.1	7202.0	8987.2	9525.7	9352.4	6103.0
42.5°	9182.6	9225.0	9228.4	8921.0	8504.8	8307.8	8114.2	9858.6	10820.0	10619.6	6840.2
45°	9901.1	9962.2	9926.6	9717.6	9406.8	9371.1	9270.9	10911.7	12369.1	12116.0	7796.5
47.5°	11012.0	11052.7	10964.4	10718.1	10402.2	10458.2	10398.8	12092.3	13948.8	13731.4	8786.8
50°	11783.1	11851.1	11976.8	12075.3	11846.0	11638.7	11462.1	13194.7	15448.7	15253.3	9799.2
52.5°	11774.6	11886.7	12284.2	12780.2	13281.3	13218.4	12710.6	14412.5	16880.6	16639.4	10750.4
55°	10981.4	11198.8	11783.1	12663.0	14050.7	14742.1	14511.1	15822.4	18117.2	17954.1	11852.8
57.5°	9343.9	9476.4	10288.4	11518.1	13621.0	15458.9	16596.9	17733.3	19600.0	19523.6	13564.9
60°	6284.8	6344.2	7388.9	8909.1	11596.3	14743.8	18125.7	20045.1	21426.0	21388.7	15564.2
62.5°	3601.0	3626.5	4384.1	5666.5	8251.8	12494.8	18254.8	22897.0	23615.5	23635.9	17877.7
65°	1938.1	1951.7	2563.2	3325.8	5021.0	8905.7	16415.2	24459.7	25385.4	25424.5	19311.3
66°	1673.1	1608.6	2040.0	2834.9	3995.1	7088.2	15251.6	24403.6	25725.2	25682.7	19260.3
67.5°	1272.2	1330.0	1628.9	2179.3	2960.6	5039.7	12591.7	23318.2	25467.0	25334.5	18477.3
70°	910.4	934.2	1160.1	1554.2	2016.2	2765.3	8046.2	19367.3	23146.7	22968.3	16097.5
72.5°	587.7	613.2	822.1	1124.5	1457.4	1510.0	4504.7	13993.0	17845.4	17819.9	12122.8
75°	419.6	443.3	543.5	805.1	1095.6	934.2	2169.1	9430.6	11344.9	11268.4	7499.3
77.5°	304.0	315.9	363.5	526.6	783.1	669.2	1005.6	5036.3	5647.8	5914.5	3313.9
80°	175.0	185.1	253.1	321.0	530.0	456.9	480.7	2021.3	2084.2	1984.0	1036.1
82.5°	86.6	98.5	151.2	219.1	331.2	307.4	220.8	608.1	642.1	625.1	261.6
85°	20.4	25.5	84.9	144.4	161.4	137.6	107.0	178.4	220.8	215.7	100.2
87.5°	1.7	3.4	30.6	25.5	27.2	45.9	37.4	45.9	71.3	66.2	35.7
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°	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2
2.5°	2534.3	2502.0	2408.6	2316.9	2240.4	2160.6	2087.6	2045.1	2028.1	2009.4	2017.9
5°	2570.0	2491.8	2303.3	2140.2	1980.6	1844.7	1736.0	1666.3	1632.3	1627.2	1618.8
7.5°	2617.5	2483.3	2191.2	1936.4	1727.5	1576.3	1452.3	1352.1	1321.5	1294.3	1272.2
10°	2675.3	2468.1	2051.9	1722.4	1499.9	1309.6	1146.5	1027.6	966.5	949.5	961.4
12.5°	2736.4	2439.2	1905.8	1525.3	1268.8	1025.9	874.8	815.3	798.3	791.5	793.2
15°	2797.6	2403.5	1752.9	1335.1	1010.7	818.7	749.1	733.8	727.0	723.6	720.2
17.5°	2853.6	2345.8	1581.4	1149.9	818.7	699.8	674.3	660.8	647.2	642.1	633.6
20°	2919.9	2279.5	1426.8	942.7	693.0	633.6	603.0	577.5	557.1	543.5	541.9
22.5°	2982.7	2194.6	1265.4	781.4	631.9	569.0	519.8	492.6	468.8	451.8	456.9
25°	3016.7	2091.0	1121.1	681.1	575.8	504.5	450.1	416.2	390.7	382.2	380.5
27.5°	3016.7	1963.6	980.1	623.4	524.9	446.7	390.7	358.4	341.4	329.5	331.2
30°	2992.9	1822.6	849.3	579.2	480.7	395.8	343.1	314.2	300.7	292.2	290.5
32.5°	2974.2	1688.4	737.2	536.8	434.8	351.6	305.7	283.7	270.1	261.6	261.6
35°	3003.1	1572.9	650.6	494.3	392.4	317.6	276.9	256.5	242.9	236.1	234.4
37.5°	3079.5	1467.6	584.3	448.4	353.3	288.8	256.5	232.7	219.1	210.6	207.2
40°	3268.1	1408.1	535.1	406.0	315.9	265.0	232.7	210.6	193.6	185.1	183.4
42.5°	3570.4	1409.8	487.5	366.9	287.1	244.6	212.3	186.8	168.2	159.7	158.0
45°	4025.7	1474.4	450.1	329.5	261.6	222.5	190.2	163.1	146.1	137.6	137.6
47.5°	4570.9	1600.1	417.9	297.3	237.8	202.1	168.2	141.0	124.0	117.2	117.2
50°	5162.0	1763.1	385.6	263.3	217.4	180.1	144.4	122.3	108.7	103.6	103.6
52.5°	5765.0	1960.2	353.3	236.1	195.3	156.3	124.0	108.7	96.8	93.4	91.7
55°	6556.6	2211.6	319.3	207.2	171.6	134.2	110.4	95.1	81.5	76.4	74.7
57.5°	7774.4	2590.4	282.0	181.7	141.0	112.1	95.1	79.8	64.5	56.1	54.4
60°	9243.7	3052.4	242.9	159.7	113.8	91.7	76.4	61.1	47.6	37.4	35.7
62.5°	10619.6	3346.2	205.5	134.2	90.0	69.6	54.4	45.9	34.0	23.8	22.1
65°	11227.7	3247.7	169.9	108.7	71.3	49.3	35.7	32.3	20.4	10.2	8.5
66°	11025.6	3101.6	156.3	98.5	64.5	42.5	30.6	27.2	15.3	5.1	5.1
67.5°	10429.3	2756.8	135.9	84.9	56.1	34.0	23.8	20.4	8.5	1.7	0.0
70°	8936.3	2230.2	107.0	62.8	40.8	23.8	13.6	10.2	5.1	0.0	0.0
72.5°	6864.0	1661.2	84.9	47.6	28.9	13.6	6.8	3.4	5.1	0.0	0.0
75°	4205.7	949.5	66.2	35.7	18.7	8.5	5.1	0.0	5.1	1.7	0.0
77.5°	1866.8	426.3	44.2	23.8	13.6	6.8	3.4	0.0	3.4	1.7	0.0
80°	472.2	139.3	25.5	17.0	10.2	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	129.1	51.0	18.7	13.6	8.5	5.1	1.7	0.0	3.4	3.4	3.4
85°	51.0	23.8	17.0	13.6	10.2	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	23.8	17.0	17.0	15.3	11.9	5.1	1.7	0.0	3.4	1.7	3.4
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)