

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: P451862

Luminaire Tested: **GALN-SA2D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451862
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-SA2D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11343 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

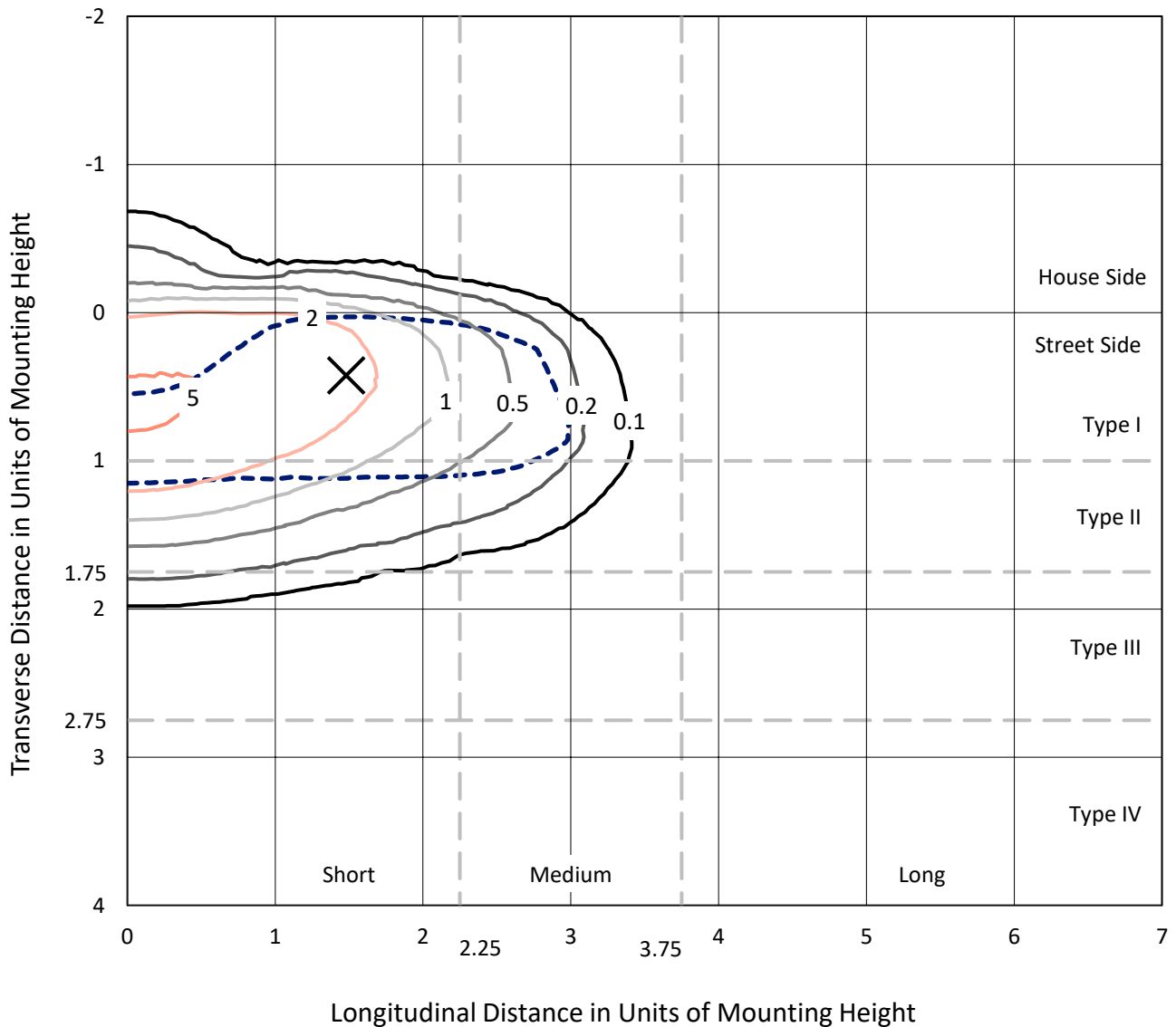
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

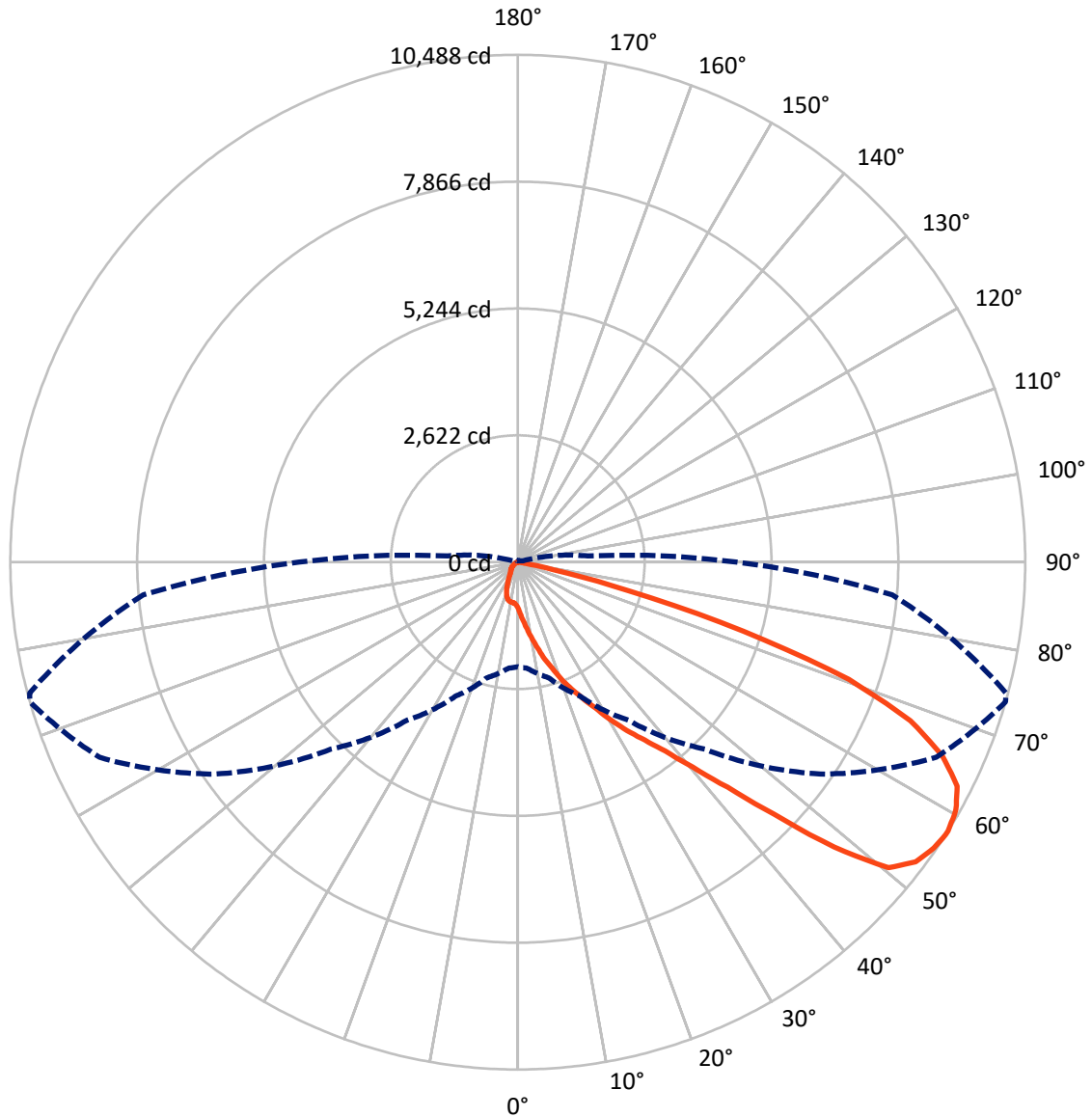
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	654.2	0.0	654.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10688.8	0.0	10688.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	11343.0	0.0	11343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.0
10°-20°	452.0	4.0
20°-30°	967.1	8.5
30°-40°	1777.5	15.7
40°-50°	2724.9	24.0
50°-60°	2882.6	25.4
60°-70°	1882.4	16.6
70°-80°	514.3	4.5
80°-90°	27.7	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°	11343.0	100.0
0°-180°	11343.0	100.0

Coefficient of Utilization



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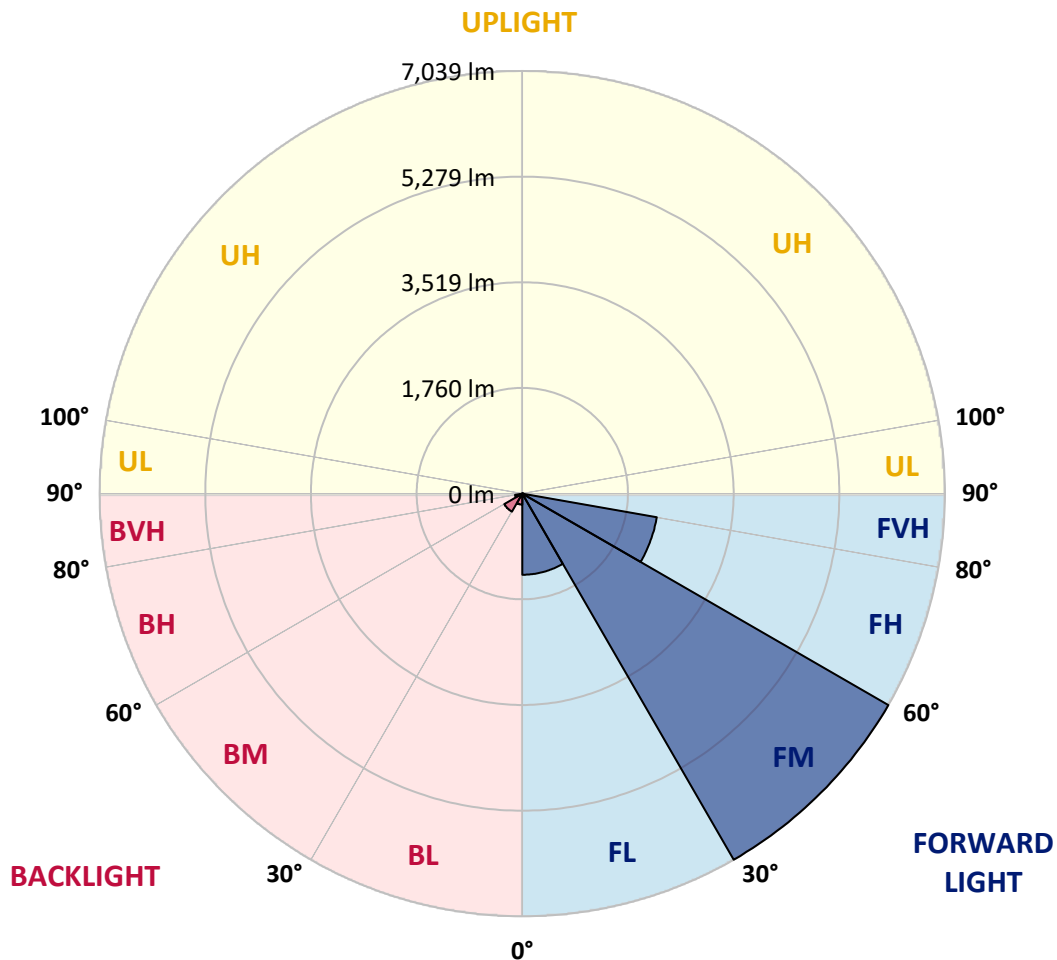
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.9	11.9			
FM (30°-60°)	7038.5	62.1			
FH (60°-80°)	2273.9	20.0			G2/5000
FVH (80°-90°)	25.4	0.2			G1/100
BL (0°-30°)	182.7	1.6	B1/500		
BM (30°-60°)	346.4	3.1	B1/1000		
BH (60°-80°)	122.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0
2.5°	1390.1	1377.6	1352.5	1343.9	1307.1	1249.9	1199.8	1132.4	1079.2	1073.7	1009.5
5°	1861.5	1833.4	1821.6	1765.2	1676.7	1593.7	1451.2	1343.1	1218.6	1209.2	1080.0
7.5°	2315.8	2276.6	2264.9	2211.6	2108.2	1977.5	1792.6	1596.1	1398.7	1380.7	1174.7
10°	2644.7	2650.2	2629.0	2593.8	2510.0	2376.9	2149.0	1880.3	1599.2	1576.5	1281.2
12.5°	2880.4	2879.6	2883.6	2882.8	2838.1	2737.1	2497.5	2188.1	1820.0	1775.4	1403.4
15°	3033.9	3036.3	3048.0	3088.7	3093.4	3030.8	2831.1	2482.6	2076.1	2020.5	1535.8
17.5°	3189.0	3205.4	3224.2	3262.6	3297.1	3272.0	3131.0	2789.6	2307.9	2266.4	1677.5
20°	3445.1	3467.8	3456.8	3480.3	3498.3	3500.7	3391.8	3073.1	2589.1	2519.4	1839.6
22.5°	3854.7	3853.9	3825.7	3783.4	3748.2	3746.6	3647.9	3364.4	2844.4	2777.1	2002.5
25°	4372.3	4374.7	4319.9	4199.3	4111.5	4004.2	3890.7	3619.7	3117.7	3034.7	2174.0
27.5°	4966.0	4951.1	4868.1	4702.0	4528.2	4344.9	4181.2	3916.5	3407.5	3338.6	2370.6
30°	5499.3	5493.8	5396.7	5193.9	4965.2	4781.1	4543.8	4288.5	3782.6	3698.0	2590.7
32.5°	5995.8	6003.6	5868.9	5659.0	5438.2	5226.0	4975.4	4644.1	4150.7	4030.9	2830.3
35°	6383.5	6391.3	6251.9	6077.2	5850.1	5673.9	5435.1	5023.1	4514.1	4413.1	3106.0
37.5°	6590.2	6600.4	6519.7	6388.2	6246.4	6157.9	5935.5	5511.0	4955.8	4894.7	3431.8
40°	6629.4	6641.1	6605.9	6570.6	6562.8	6626.2	6561.2	6085.9	5568.2	5472.7	3917.3
42.5°	6511.9	6527.6	6543.2	6621.5	6781.3	7013.9	7240.2	6865.9	6356.8	6228.4	4510.9
45°	6203.3	6201.8	6263.6	6466.5	6824.4	7320.9	7949.8	7842.5	7431.3	7278.6	5349.7
47.5°	5675.5	5667.7	5801.6	6090.6	6648.2	7377.3	8528.5	9028.2	8802.6	8661.6	6251.1
50°	4871.2	4909.6	5120.2	5523.6	6210.4	7206.6	8707.1	9805.8	9928.0	9778.4	6979.4
52.5°	3929.1	3927.5	4258.0	4805.4	5561.9	6830.6	8582.5	9946.8	10293.7	10179.4	7338.1
55°	2907.8	2928.2	3272.0	3824.1	4720.0	6144.6	8176.1	9801.9	10433.1	10352.5	7574.6
57°	2163.1	2199.1	2474.8	3059.0	3987.0	5465.6	7634.9	9542.7	10488.0	10444.1	7771.2
57.5°	2019.0	2020.5	2289.1	2820.1	3772.4	5204.8	7479.9	9434.6	10486.4	10462.1	7803.3
60°	1242.9	1282.0	1467.6	1906.2	2761.4	4062.2	6440.6	8813.6	10404.9	10440.2	7940.4
62.5°	744.0	760.4	881.0	1148.9	1780.1	2965.0	5270.6	8018.7	10192.7	10300.0	7931.0
65°	478.5	482.4	537.2	695.4	1112.9	2004.1	4061.4	6968.5	9643.7	9841.1	7620.8
67.5°	369.6	375.9	397.8	456.6	645.3	1248.3	2872.6	5847.8	8755.6	9010.1	6869.0
70°	328.1	331.3	339.1	357.9	426.8	704.8	1787.1	4568.1	7260.6	7332.6	5375.5
72.5°	267.8	276.5	300.7	307.0	338.3	440.1	994.6	3066.0	4878.2	4896.3	3007.3
75°	207.5	209.1	245.1	263.1	285.1	303.1	444.0	1545.9	2343.2	2217.9	1159.1
77.5°	155.1	162.1	178.6	201.3	232.6	216.9	198.9	582.7	727.5	714.2	336.8
80°	99.5	103.4	124.5	151.1	180.9	141.8	112.0	170.7	159.8	164.5	80.7
82.5°	50.1	50.9	79.9	123.0	115.1	71.3	70.5	69.7	59.5	58.7	37.6
85°	5.5	11.7	51.7	70.5	51.7	23.5	32.9	32.1	31.3	32.1	21.9
87.5°	0.8	0.8	8.6	10.2	7.0	7.8	9.4	10.2	12.5	11.7	9.4
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°	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0	950.0
2.5°	978.2	946.8	888.9	833.3	791.8	765.1	730.7	718.1	700.1	697.8	689.2
5°	1020.4	960.9	859.9	780.0	715.8	667.2	625.0	589.7	561.5	555.3	558.4
7.5°	1080.7	992.3	851.3	742.4	653.1	570.1	502.8	461.3	431.5	420.6	422.1
10°	1148.9	1033.8	849.7	702.5	566.2	464.4	390.8	354.0	336.8	330.5	323.4
12.5°	1229.5	1081.5	845.8	640.6	470.7	370.4	318.0	296.0	279.6	274.9	274.9
15°	1320.4	1132.4	827.0	563.9	382.2	306.2	271.0	253.7	248.3	243.6	243.6
17.5°	1415.2	1182.6	787.8	469.1	317.2	262.4	240.4	230.2	222.4	216.9	216.9
20°	1523.2	1231.9	725.2	385.3	267.8	234.2	216.9	205.2	198.9	194.2	192.7
22.5°	1625.8	1271.8	645.3	316.4	233.4	210.7	195.0	182.5	176.2	173.9	173.9
25°	1732.3	1296.1	549.0	261.6	213.0	191.1	173.9	163.7	158.2	156.6	155.8
27.5°	1835.7	1310.2	464.4	228.7	194.2	173.1	156.6	148.8	143.3	141.8	142.5
30°	1961.0	1312.6	382.2	205.2	177.8	155.8	141.0	133.9	130.8	129.2	128.4
32.5°	2087.9	1309.4	321.1	191.1	162.1	141.0	128.4	123.0	120.6	118.3	118.3
35°	2230.4	1293.0	273.3	177.0	147.2	128.4	117.5	112.8	109.6	107.3	106.5
37.5°	2407.4	1284.4	245.9	161.3	133.9	116.7	106.5	101.8	99.5	96.3	95.5
40°	2686.2	1322.7	237.3	147.2	120.6	105.7	96.3	90.8	87.7	84.6	83.8
42.5°	3033.9	1390.1	223.2	133.1	108.9	95.5	86.1	79.9	74.4	70.5	68.9
45°	3484.2	1478.6	201.3	118.3	98.7	84.6	76.0	68.1	61.1	58.0	57.2
47.5°	3956.5	1564.0	181.7	106.5	87.7	75.2	65.8	57.2	50.9	48.6	47.8
50°	4246.2	1581.2	169.2	93.2	76.7	65.0	55.6	47.8	43.9	41.5	41.5
52.5°	4378.6	1553.8	151.9	81.4	66.6	57.2	47.8	41.5	39.2	37.6	36.8
55°	4471.0	1511.5	129.2	70.5	57.2	48.6	42.3	37.6	34.5	32.9	32.1
57°	4525.0	1454.3	112.0	61.9	49.3	42.3	37.6	33.7	30.5	27.4	27.4
57.5°	4527.4	1432.4	107.3	61.1	47.0	40.7	36.8	32.9	29.0	25.8	25.1
60°	4457.7	1282.0	86.1	51.7	37.6	34.5	30.5	25.8	20.4	17.2	16.4
62.5°	4233.7	1090.9	71.3	43.9	30.5	26.6	21.9	19.6	14.1	10.2	10.2
65°	3894.6	885.0	61.1	35.2	25.1	19.6	14.9	14.1	8.6	4.7	3.9
67.5°	3404.4	689.2	51.7	29.0	21.1	14.1	10.2	9.4	4.7	1.6	0.0
70°	2593.8	469.9	43.1	23.5	15.7	10.2	7.0	5.5	3.1	0.8	0.0
72.5°	1495.0	258.4	36.0	18.0	11.7	7.8	5.5	3.1	3.1	0.0	0.0
75°	534.1	111.2	27.4	13.3	9.4	6.3	3.9	1.6	2.3	0.8	0.0
77.5°	169.9	59.5	18.0	10.2	7.8	4.7	3.1	1.6	1.6	0.8	0.0
80°	50.1	31.3	11.0	8.6	5.5	3.9	2.3	0.8	1.6	0.8	0.0
82.5°	27.4	15.7	8.6	6.3	5.5	3.1	2.3	0.8	0.8	0.8	0.0
85°	14.1	9.4	7.0	6.3	5.5	3.1	2.3	0.8	0.0	0.8	0.8
87.5°	7.8	7.0	7.0	6.3	5.5	3.9	2.3	0.8	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)