

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: P452585

Luminaire Tested: **GALN-SA3C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452585
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-SA3C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 15689 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

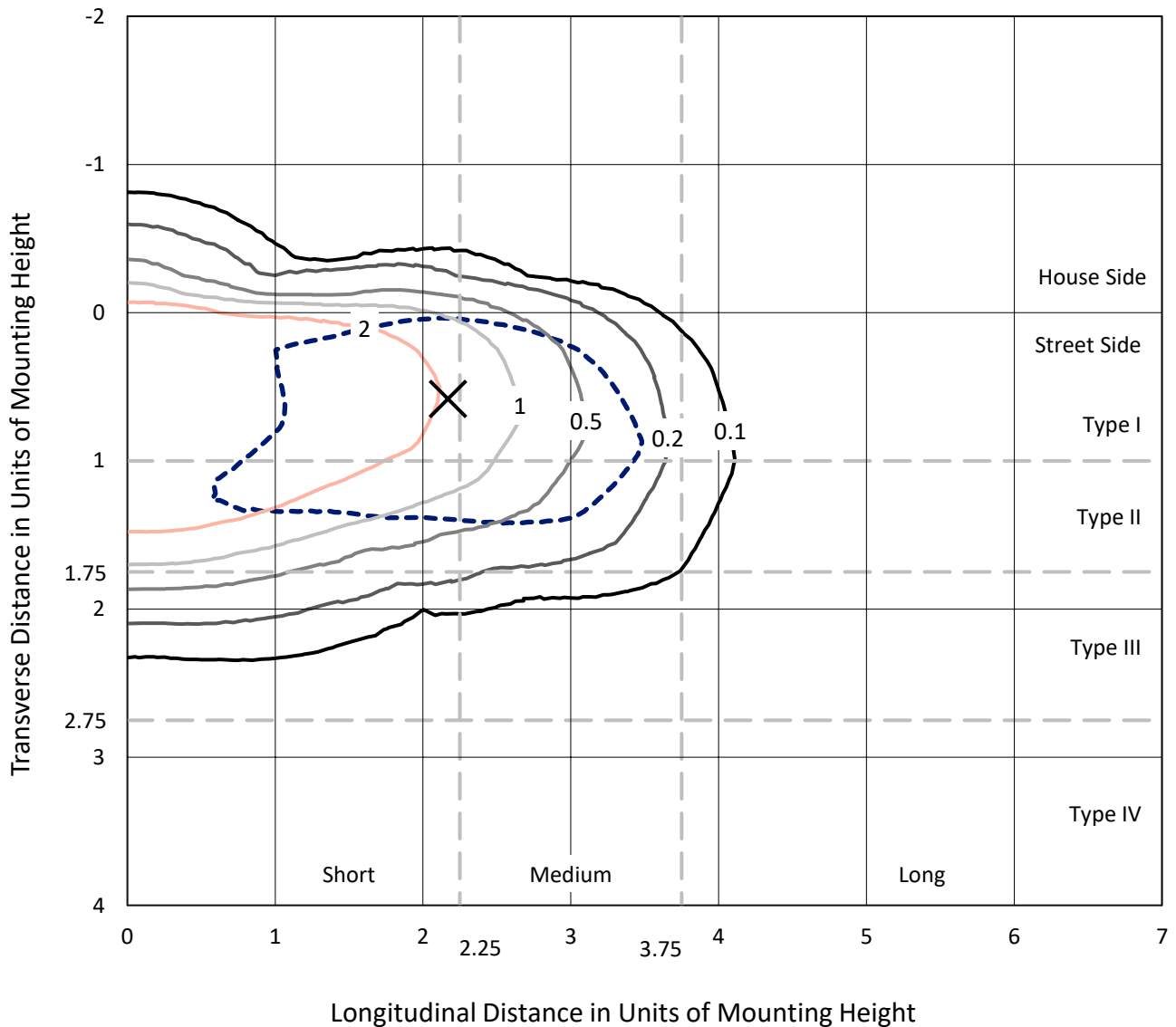
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

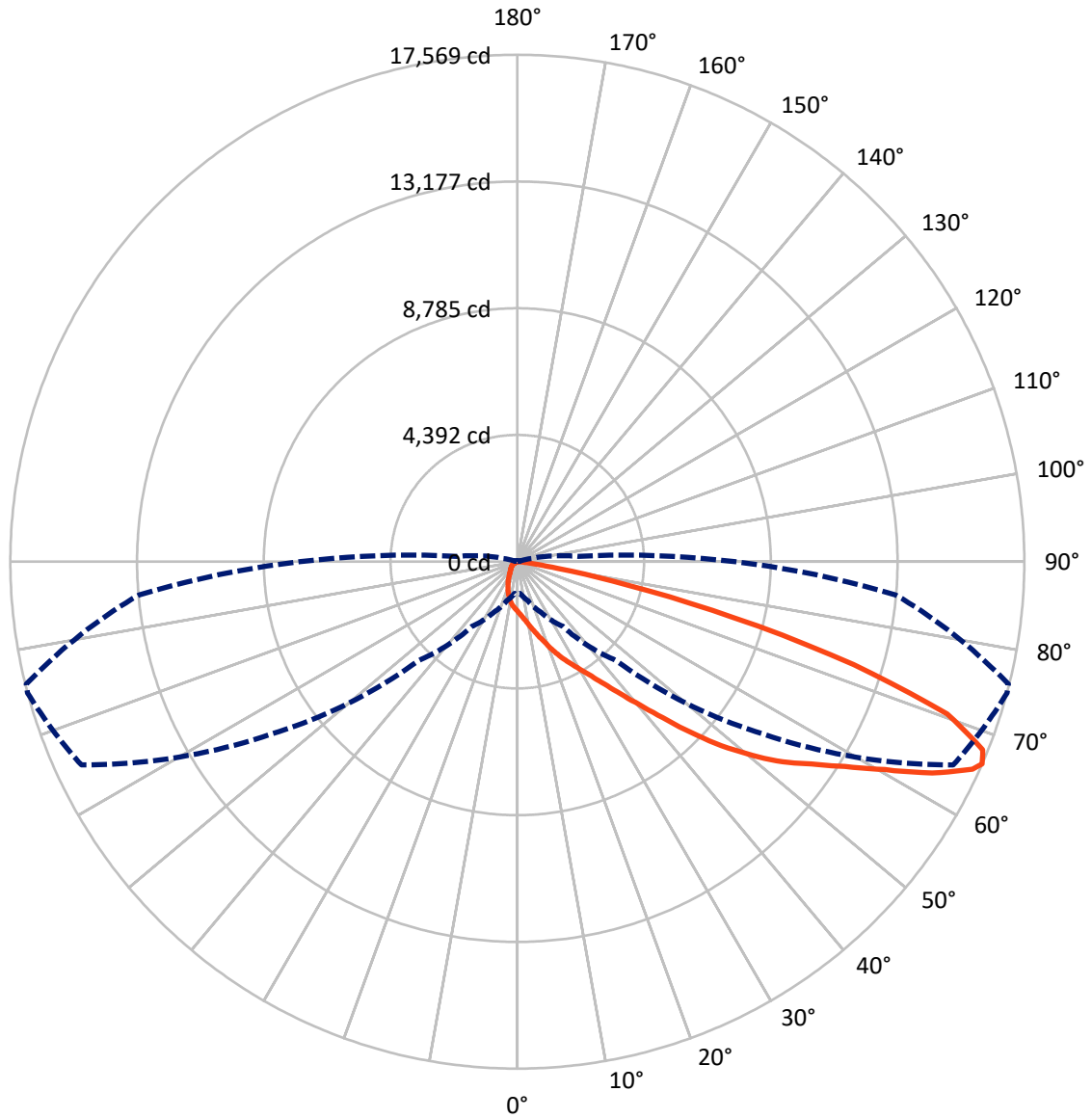
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	968.6	0.0	968.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14720.4	0.0	14720.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	15689.0	0.0	15689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	1.1
10°-20°	487.0	3.1
20°-30°	841.0	5.4
30°-40°	1517.0	9.7
40°-50°	2740.5	17.5
50°-60°	4272.4	27.2
60°-70°	4058.6	25.9
70°-80°	1521.1	9.7
80°-90°	85.8	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°	15689.0	100.0
0°-180°	15689.0	100.0

Coefficient of Utilization



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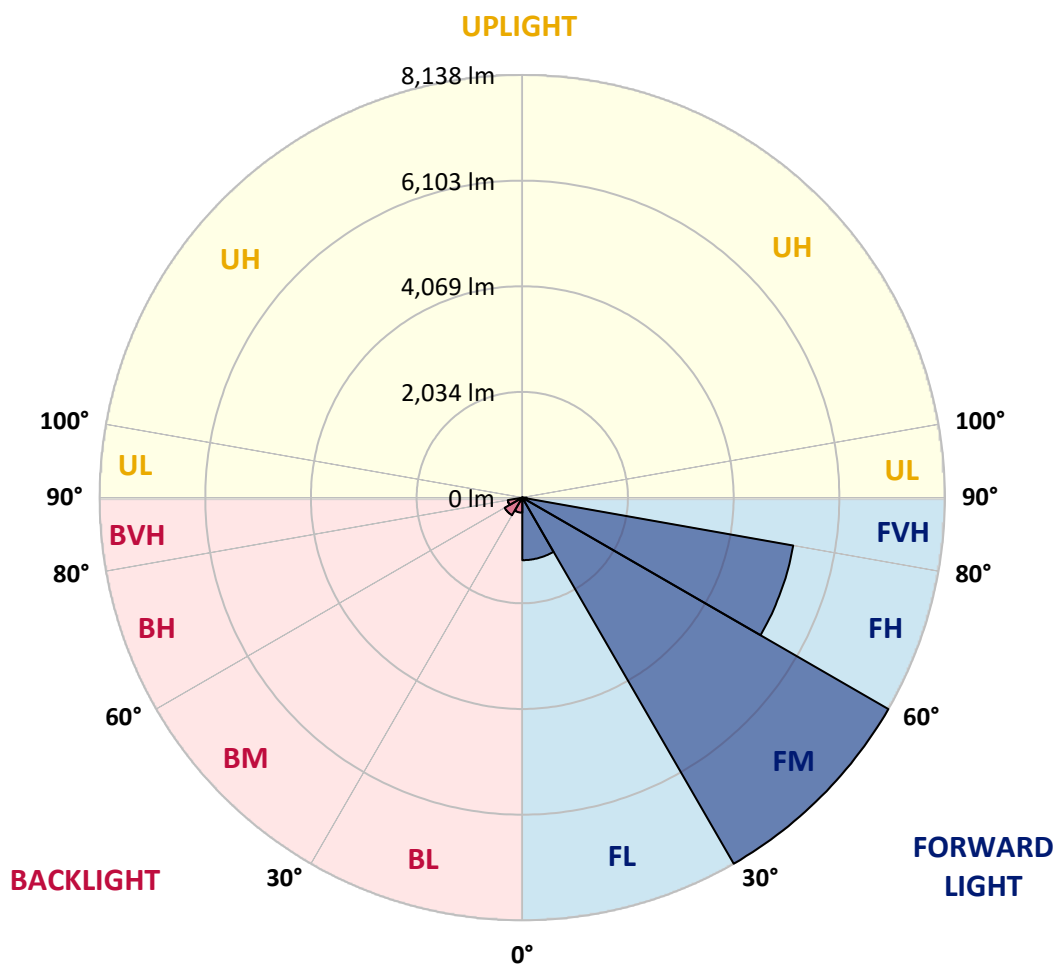
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.3	7.7			
FM (30°-60°)	8137.9	51.9			
FH (60°-80°)	5296.9	33.8			G3/7500
FVH (80°-90°)	81.4	0.5			G1/100
BL (0°-30°)	289.3	1.8	B1/500		
BM (30°-60°)	392.1	2.5	B1/1000		
BH (60°-80°)	282.8	1.8	B1/500		G1/500
BVH (80°-90°)	4.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7
2.5°	2049.8	2024.3	2032.4	2020.8	1994.2	1954.7	1919.9	1870.0	1820.2	1812.0	1756.3
5°	2320.1	2313.2	2303.9	2270.3	2251.7	2191.4	2119.5	2033.6	1930.4	1911.8	1810.9
7.5°	2504.6	2501.1	2505.8	2488.4	2472.1	2417.6	2341.0	2223.9	2063.8	2053.3	1885.1
10°	2564.9	2574.2	2591.6	2619.4	2645.0	2627.6	2569.6	2423.4	2236.6	2206.5	1969.8
12.5°	2530.1	2540.6	2582.3	2656.6	2738.9	2786.5	2763.3	2656.6	2419.9	2395.5	2064.9
15°	2440.8	2453.6	2512.7	2627.6	2774.9	2909.5	2967.5	2890.9	2633.4	2593.9	2179.8
17.5°	2308.5	2327.1	2411.8	2563.8	2765.6	2997.6	3161.2	3135.7	2860.7	2823.6	2305.1
20°	2208.8	2222.7	2294.6	2468.6	2726.2	3046.4	3345.6	3417.6	3141.5	3077.7	2452.4
22.5°	2274.9	2279.5	2303.9	2408.3	2655.4	3059.1	3508.1	3711.1	3439.6	3382.8	2605.5
25°	2598.6	2552.2	2527.8	2504.6	2640.3	3047.5	3655.4	4017.3	3736.6	3676.3	2757.5
27.5°	3109.0	3088.1	2965.1	2800.4	2769.1	3062.6	3752.8	4307.3	4016.2	3951.2	2906.0
30°	3664.7	3628.7	3553.3	3312.0	3069.6	3169.3	3823.6	4589.2	4346.8	4260.9	3041.7
32.5°	4175.1	4198.3	4085.8	3837.5	3556.8	3396.7	3915.2	4896.7	4726.1	4619.4	3199.5
35°	4770.2	4816.6	4643.8	4406.0	4077.7	3807.4	4093.9	5243.5	5207.6	5073.0	3443.1
37.5°	5374.6	5402.5	5296.9	4962.8	4667.0	4329.4	4430.3	5671.6	5800.4	5685.5	3734.3
40°	5882.7	5921.0	5843.3	5546.3	5230.8	4933.8	4918.7	6137.9	6505.7	6387.4	4168.1
42.5°	6271.4	6300.4	6302.7	6092.7	5808.5	5673.9	5541.7	6733.1	7389.7	7252.8	4671.6
45°	6762.1	6803.8	6779.5	6636.8	6424.5	6400.1	6331.7	7452.3	8447.6	8274.8	5324.7
47.5°	7520.8	7548.6	7488.3	7320.1	7104.3	7142.6	7102.0	8258.6	9526.5	9378.0	6001.1
50°	8047.4	8093.8	8179.7	8247.0	8090.3	7948.8	7828.2	9011.4	10550.9	10417.5	6692.5
52.5°	8041.6	8118.2	8389.6	8728.4	9070.6	9027.7	8680.8	9843.2	11528.8	11364.1	7342.1
55°	7499.9	7648.4	8047.4	8648.3	9596.1	10068.3	9910.5	10806.1	12373.3	12262.0	8095.0
57.5°	6381.6	6472.0	7026.6	7866.5	9302.6	10557.8	11335.1	12111.2	13386.1	13333.9	9264.3
60°	4292.3	4332.9	5046.3	6084.6	7919.8	10069.4	12379.1	13690.0	14633.2	14607.6	10629.7
62.5°	2459.4	2476.8	2994.1	3870.0	5635.6	8533.5	12467.3	15637.8	16128.5	16142.4	12209.8
65°	1323.6	1332.9	1750.5	2271.4	3429.2	6082.3	11210.9	16705.0	17337.3	17364.0	13188.9
66°	1142.7	1098.6	1393.2	1936.2	2728.5	4841.0	10416.3	16666.8	17569.3	17540.3	13154.1
67.5°	868.9	908.3	1112.5	1488.4	2022.0	3441.9	8599.6	15925.5	17393.0	17302.5	12619.3
70°	621.8	638.0	792.3	1061.5	1377.0	1888.6	5495.3	13227.1	15808.3	15686.5	10994.0
72.5°	401.4	418.8	561.5	768.0	995.3	1031.3	3076.5	9556.7	12187.7	12170.3	8279.4
75°	286.5	302.8	371.2	549.9	748.2	638.0	1481.4	6440.7	7748.1	7695.9	5121.7
77.5°	207.7	215.8	248.3	359.6	534.8	457.1	686.8	3439.6	3857.2	4039.4	2263.3
80°	119.5	126.4	172.9	219.3	361.9	312.1	328.3	1380.5	1423.4	1355.0	707.6
82.5°	59.2	67.3	103.2	149.6	226.2	210.0	150.8	415.3	438.5	426.9	178.7
85°	13.9	17.4	58.0	98.6	110.2	94.0	73.1	121.8	150.8	147.3	68.4
87.5°	1.2	2.3	20.9	17.4	18.6	31.3	25.5	31.3	48.7	45.2	24.4
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°	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7
2.5°	1730.8	1708.8	1645.0	1582.3	1530.1	1475.6	1425.7	1396.7	1385.1	1372.4	1378.2
5°	1755.2	1701.8	1573.1	1461.7	1352.6	1259.8	1185.6	1138.0	1114.8	1111.3	1105.5
7.5°	1787.7	1696.0	1496.5	1322.5	1179.8	1076.5	991.9	923.4	902.5	884.0	868.9
10°	1827.1	1685.6	1401.4	1176.3	1024.3	894.4	783.0	701.8	660.1	648.5	656.6
12.5°	1868.9	1665.9	1301.6	1041.7	866.6	700.7	597.4	556.8	545.2	540.6	541.8
15°	1910.6	1641.5	1197.2	911.8	690.2	559.2	511.6	501.2	496.5	494.2	491.9
17.5°	1948.9	1602.1	1080.0	785.4	559.2	477.9	460.5	451.3	442.0	438.5	432.7
20°	1994.2	1556.8	974.5	643.8	473.3	432.7	411.8	394.4	380.5	371.2	370.1
22.5°	2037.1	1498.8	864.3	533.6	431.5	388.6	355.0	336.4	320.2	308.6	312.1
25°	2060.3	1428.0	765.6	465.2	393.3	344.5	307.4	284.2	266.8	261.0	259.9
27.5°	2060.3	1341.0	669.4	425.7	358.5	305.1	266.8	244.8	233.2	225.1	226.2
30°	2044.0	1244.8	580.0	395.6	328.3	270.3	234.3	214.6	205.3	199.5	198.4
32.5°	2031.3	1153.1	503.5	366.6	297.0	240.1	208.8	193.7	184.5	178.7	178.7
35°	2051.0	1074.2	444.3	337.6	268.0	216.9	189.1	175.2	165.9	161.3	160.1
37.5°	2103.2	1002.3	399.1	306.3	241.3	197.2	175.2	158.9	149.6	143.8	141.5
40°	2232.0	961.7	365.4	277.3	215.8	181.0	158.9	143.8	132.2	126.4	125.3
42.5°	2438.5	962.9	332.9	250.6	196.1	167.1	145.0	127.6	114.8	109.0	107.9
45°	2749.4	1006.9	307.4	225.1	178.7	152.0	129.9	111.4	99.8	94.0	94.0
47.5°	3121.8	1092.8	285.4	203.0	162.4	138.0	114.8	96.3	84.7	80.0	80.0
50°	3525.5	1204.2	263.3	179.8	148.5	123.0	98.6	83.5	74.2	70.8	70.8
52.5°	3937.3	1338.7	241.3	161.3	133.4	106.7	84.7	74.2	66.1	63.8	62.6
55°	4477.9	1510.4	218.1	141.5	117.2	91.6	75.4	65.0	55.7	52.2	51.0
57.5°	5309.7	1769.1	192.6	124.1	96.3	76.6	65.0	54.5	44.1	38.3	37.1
60°	6313.1	2084.7	165.9	109.0	77.7	62.6	52.2	41.8	32.5	25.5	24.4
62.5°	7252.8	2285.3	140.4	91.6	61.5	47.6	37.1	31.3	23.2	16.2	15.1
65°	7668.1	2218.1	116.0	74.2	48.7	33.6	24.4	22.0	13.9	7.0	5.8
66°	7530.0	2118.3	106.7	67.3	44.1	29.0	20.9	18.6	10.4	3.5	3.5
67.5°	7122.8	1882.8	92.8	58.0	38.3	23.2	16.2	13.9	5.8	1.2	0.0
70°	6103.1	1523.2	73.1	42.9	27.8	16.2	9.3	7.0	3.5	0.0	0.0
72.5°	4687.9	1134.6	58.0	32.5	19.7	9.3	4.6	2.3	3.5	0.0	0.0
75°	2872.3	648.5	45.2	24.4	12.8	5.8	3.5	0.0	3.5	1.2	0.0
77.5°	1274.9	291.2	30.2	16.2	9.3	4.6	2.3	0.0	2.3	1.2	0.0
80°	322.5	95.1	17.4	11.6	7.0	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	88.2	34.8	12.8	9.3	5.8	3.5	1.2	0.0	2.3	2.3	2.3
85°	34.8	16.2	11.6	9.3	7.0	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.2	11.6	11.6	10.4	8.1	3.5	1.2	0.0	2.3	1.2	2.3
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)