

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: P452353

Luminaire Tested: **GALN-SA3B-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452353  
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-SA3B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 12698 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

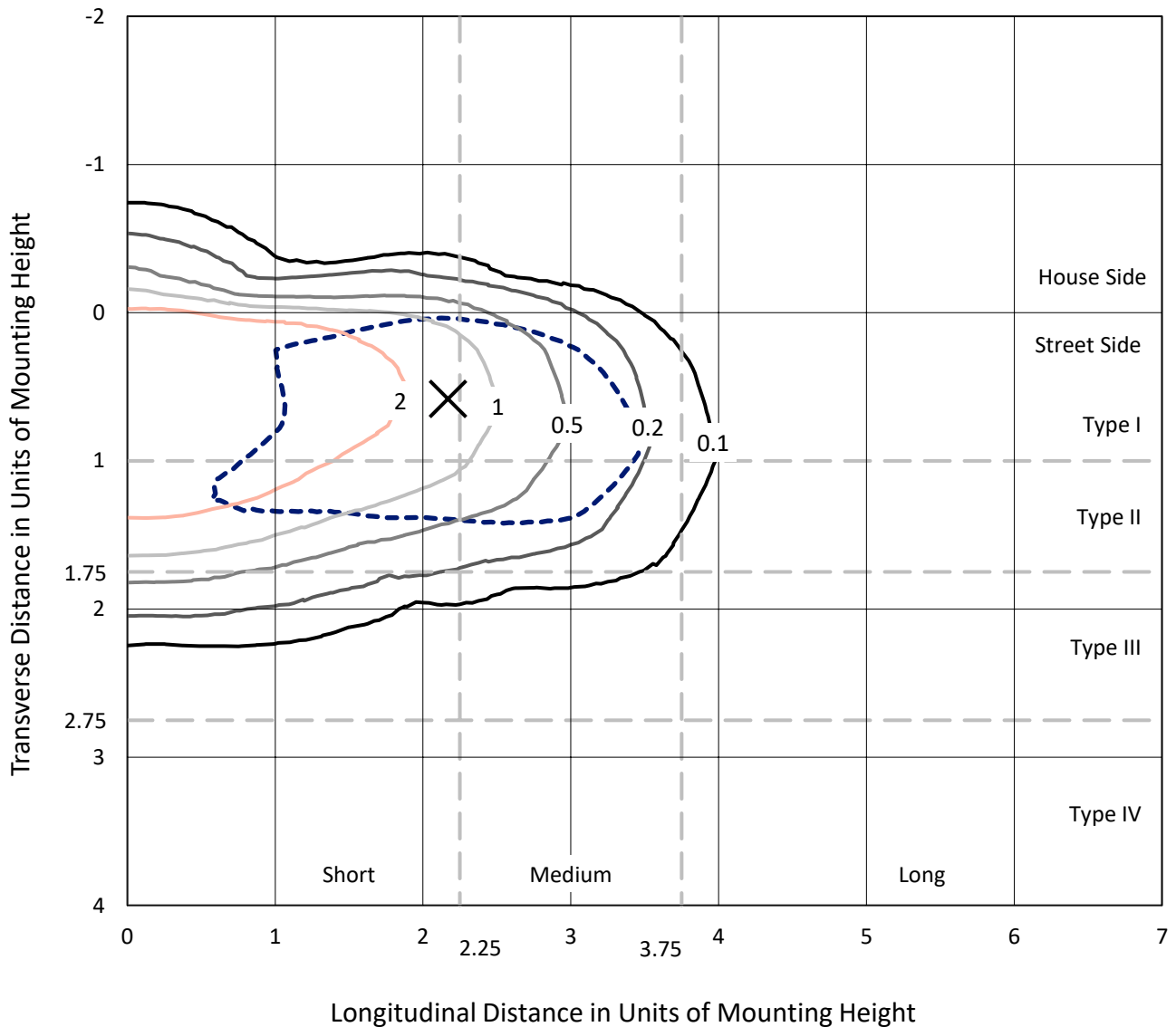
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

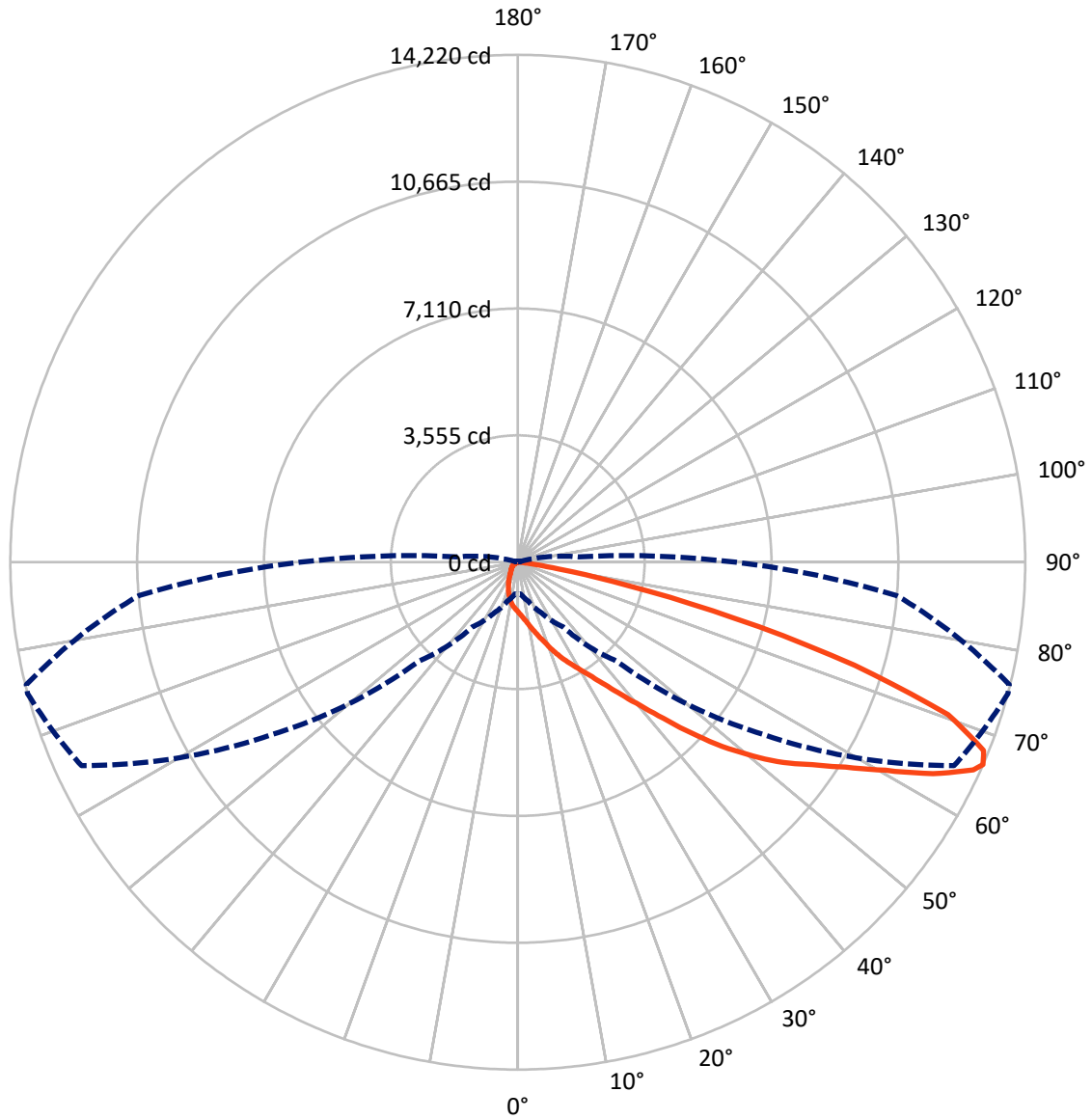
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	783.9	0.0	783.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11914.1	0.0	11914.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12698.0	0.0	12698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.9	1.1
10°-20°	394.2	3.1
20°-30°	680.7	5.4
30°-40°	1227.8	9.7
40°-50°	2218.0	17.5
50°-60°	3457.9	27.2
60°-70°	3284.9	25.9
70°-80°	1231.1	9.7
80°-90°	69.5	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°	12698.0	100.0
0°-180°	12698.0	100.0

**Coefficient of Utilization**



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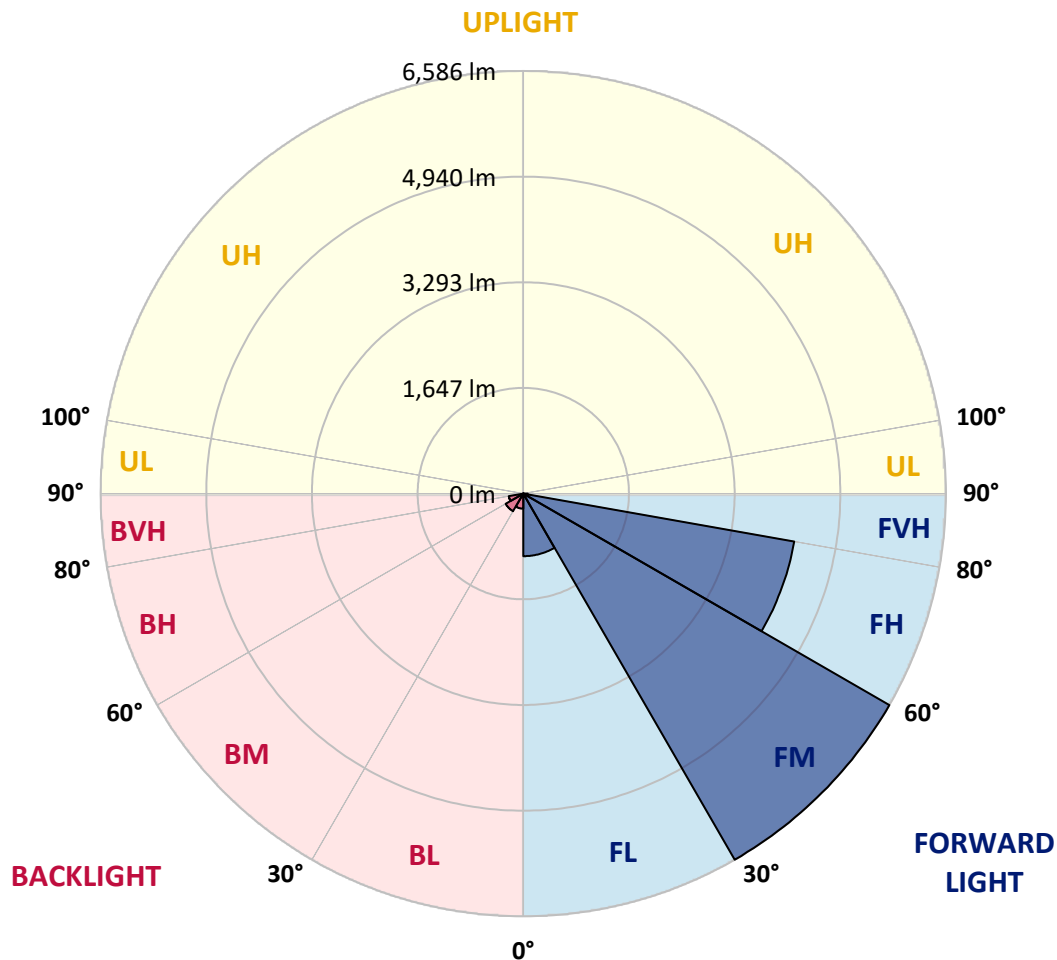
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	974.7	7.7			
FM	(30°-60°)	6586.4	51.9			
FH	(60°-80°)	4287.1	33.8			G2/5000
FVH	(80°-90°)	65.9	0.5			G1/100
BL	(0°-30°)	234.1	1.8	B1/500		
BM	(30°-60°)	317.3	2.5	B1/1000		
BH	(60°-80°)	228.9	1.8	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	75°	76°	85°
0°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1659.1	1638.4	1645.0	1635.6	1614.0	1582.1	1553.9	1513.5	1473.2	1466.6	1421.5
5°	1877.8	1872.2	1864.7	1837.5	1822.4	1773.6	1715.4	1645.9	1562.4	1547.3	1465.6
7.5°	2027.1	2024.3	2028.1	2014.0	2000.8	1956.7	1894.7	1799.9	1670.3	1661.9	1525.7
10°	2075.9	2083.4	2097.5	2120.1	2140.7	2126.6	2079.7	1961.4	1810.2	1785.8	1594.3
12.5°	2047.8	2056.2	2090.0	2150.1	2216.8	2255.3	2236.5	2150.1	1958.6	1938.9	1671.3
15°	1975.5	1985.8	2033.7	2126.6	2245.9	2354.8	2401.7	2339.8	2131.3	2099.4	1764.2
17.5°	1868.4	1883.5	1952.0	2075.0	2238.4	2426.2	2558.5	2537.9	2315.4	2285.3	1865.6
20°	1787.7	1799.0	1857.2	1998.0	2206.4	2465.6	2707.8	2766.0	2542.6	2490.9	1984.9
22.5°	1841.2	1845.0	1864.7	1949.2	2149.2	2475.9	2839.3	3003.6	2783.9	2737.9	2108.8
25°	2103.2	2065.6	2045.9	2027.1	2137.0	2466.5	2958.5	3251.5	3024.2	2975.4	2231.8
27.5°	2516.3	2499.4	2399.9	2266.5	2241.2	2478.7	3037.4	3486.2	3250.5	3197.9	2352.0
30°	2966.0	2936.9	2875.9	2680.6	2484.4	2565.1	3094.7	3714.3	3518.1	3448.6	2461.8
32.5°	3379.1	3397.9	3306.9	3105.9	2878.7	2749.1	3168.8	3963.2	3825.1	3738.8	2589.5
35°	3860.8	3898.4	3758.5	3566.0	3300.3	3081.5	3313.4	4243.9	4214.8	4105.9	2786.7
37.5°	4350.0	4372.5	4287.1	4016.7	3777.2	3504.0	3585.7	4590.3	4694.6	4601.6	3022.4
40°	4761.2	4792.2	4729.3	4488.9	4233.6	3993.2	3981.0	4967.8	5265.4	5169.7	3373.5
42.5°	5075.8	5099.2	5101.1	4931.2	4701.1	4592.2	4485.2	5449.4	5980.9	5870.1	3781.0
45°	5472.9	5506.7	5487.0	5371.5	5199.7	5180.0	5124.6	6031.6	6837.2	6697.3	4309.6
47.5°	6087.0	6109.5	6060.7	5924.5	5749.9	5780.9	5748.0	6684.1	7710.4	7590.2	4857.0
50°	6513.2	6550.8	6620.3	6674.7	6548.0	6433.4	6335.8	7293.5	8539.4	8431.4	5416.6
52.5°	6508.5	6570.5	6790.2	7064.4	7341.4	7306.6	7025.9	7966.7	9330.9	9197.6	5942.4
55°	6070.1	6190.3	6513.2	6999.6	7766.7	8148.8	8021.1	8746.0	10014.4	9924.3	6551.7
57.5°	5165.0	5238.2	5687.0	6366.8	7529.1	8545.0	9174.1	9802.2	10834.1	10791.9	7498.2
60°	3474.0	3506.8	4084.3	4924.6	6410.0	8149.8	10019.1	11080.1	11843.4	11822.8	8603.3
62.5°	1990.5	2004.6	2423.3	3132.2	4561.2	6906.6	10090.5	12656.5	13053.7	13065.0	9882.1
65°	1071.3	1078.8	1416.8	1838.4	2775.4	4922.7	9073.7	13520.3	14032.0	14053.6	10674.5
66°	924.8	889.2	1127.6	1567.0	2208.3	3918.1	8430.5	13489.4	14219.8	14196.4	10646.3
67.5°	703.2	735.2	900.4	1204.6	1636.5	2785.8	6960.2	12889.4	14077.1	14003.9	10213.5
70°	503.3	516.4	641.3	859.1	1114.5	1528.5	4447.6	10705.5	12794.6	12696.0	8898.1
72.5°	324.9	338.9	454.4	621.6	805.6	834.7	2490.0	7734.8	9864.2	9850.1	6701.0
75°	231.9	245.1	300.5	445.0	605.6	516.4	1199.0	5212.8	6271.0	6228.7	4145.3
77.5°	168.1	174.6	200.9	291.1	432.8	369.9	555.8	2783.9	3121.9	3269.3	1831.8
80°	96.7	102.3	139.9	177.5	292.9	252.6	265.7	1117.3	1152.0	1096.6	572.7
82.5°	47.9	54.5	83.6	121.1	183.1	169.9	122.1	336.1	354.9	345.5	144.6
85°	11.3	14.1	46.9	79.8	89.2	76.1	59.2	98.6	122.1	119.2	55.4
87.5°	0.9	1.9	16.9	14.1	15.0	25.4	20.7	25.4	39.4	36.6	19.7
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°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1400.9	1383.0	1331.4	1280.7	1238.4	1194.3	1153.9	1130.5	1121.1	1110.7	1115.4
5°	1420.6	1377.4	1273.2	1183.0	1094.8	1019.7	959.6	921.1	902.3	899.5	894.8
7.5°	1446.9	1372.7	1211.2	1070.4	954.9	871.3	802.8	747.4	730.5	715.5	703.2
10°	1478.8	1364.2	1134.2	952.1	829.1	723.9	633.8	568.0	534.2	524.9	531.4
12.5°	1512.6	1348.3	1053.5	843.1	701.4	567.1	483.5	450.7	441.3	437.5	438.5
15°	1546.4	1328.6	969.0	738.0	558.7	452.6	414.1	405.6	401.9	400.0	398.1
17.5°	1577.4	1296.6	874.1	635.6	452.6	386.8	372.7	365.2	357.7	354.9	350.2
20°	1614.0	1260.0	788.7	521.1	383.1	350.2	333.3	319.2	308.0	300.5	299.5
22.5°	1648.7	1213.1	699.5	431.9	349.3	314.5	287.3	272.3	259.1	249.8	252.6
25°	1667.5	1155.8	619.7	376.5	318.3	278.9	248.8	230.0	215.9	211.3	210.3
27.5°	1667.5	1085.4	541.8	344.6	290.1	246.9	215.9	198.1	188.7	182.1	183.1
30°	1654.4	1007.5	469.5	320.2	265.7	218.8	189.7	173.7	166.2	161.5	160.6
32.5°	1644.0	933.3	407.5	296.7	240.4	194.4	169.0	156.8	149.3	144.6	144.6
35°	1660.0	869.4	359.6	273.2	216.9	175.6	153.0	141.8	134.3	130.5	129.6
37.5°	1702.2	811.2	323.0	247.9	195.3	159.6	141.8	128.6	121.1	116.4	114.5
40°	1806.5	778.4	295.8	224.4	174.6	146.5	128.6	116.4	107.0	102.3	101.4
42.5°	1973.6	779.3	269.5	202.8	158.7	135.2	117.4	103.3	93.0	88.3	87.3
45°	2225.2	815.0	248.8	182.1	144.6	123.0	105.2	90.1	80.7	76.1	76.1
47.5°	2526.6	884.5	231.0	164.3	131.4	111.7	93.0	77.9	68.5	64.8	64.8
50°	2853.4	974.6	213.1	145.5	120.2	99.5	79.8	67.6	60.1	57.3	57.3
52.5°	3186.7	1083.5	195.3	130.5	108.0	86.4	68.5	60.1	53.5	51.6	50.7
55°	3624.2	1222.5	176.5	114.5	94.8	74.2	61.0	52.6	45.1	42.3	41.3
57.5°	4297.4	1431.8	155.9	100.5	77.9	62.0	52.6	44.1	35.7	31.0	30.0
60°	5109.6	1687.2	134.3	88.3	62.9	50.7	42.3	33.8	26.3	20.7	19.7
62.5°	5870.1	1849.7	113.6	74.2	49.8	38.5	30.0	25.4	18.8	13.1	12.2
65°	6206.2	1795.2	93.9	60.1	39.4	27.2	19.7	17.8	11.3	5.6	4.7
66°	6094.5	1714.5	86.4	54.5	35.7	23.5	16.9	15.0	8.5	2.8	2.8
67.5°	5764.9	1523.9	75.1	46.9	31.0	18.8	13.1	11.3	4.7	0.9	0.0
70°	4939.6	1232.8	59.2	34.7	22.5	13.1	7.5	5.6	2.8	0.0	0.0
72.5°	3794.1	918.3	46.9	26.3	16.0	7.5	3.8	1.9	2.8	0.0	0.0
75°	2324.7	524.9	36.6	19.7	10.3	4.7	2.8	0.0	2.8	0.9	0.0
77.5°	1031.9	235.7	24.4	13.1	7.5	3.8	1.9	0.0	1.9	0.9	0.0
80°	261.0	77.0	14.1	9.4	5.6	2.8	0.9	0.0	1.9	1.9	0.9
82.5°	71.4	28.2	10.3	7.5	4.7	2.8	0.9	0.0	1.9	1.9	1.9
85°	28.2	13.1	9.4	7.5	5.6	2.8	0.9	0.0	1.9	1.9	1.9
87.5°	13.1	9.4	9.4	8.5	6.6	2.8	0.9	0.0	1.9	0.9	1.9
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)