

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: P452527

Luminaire Tested: **GALN-SA3C-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452527  
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-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 13121 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

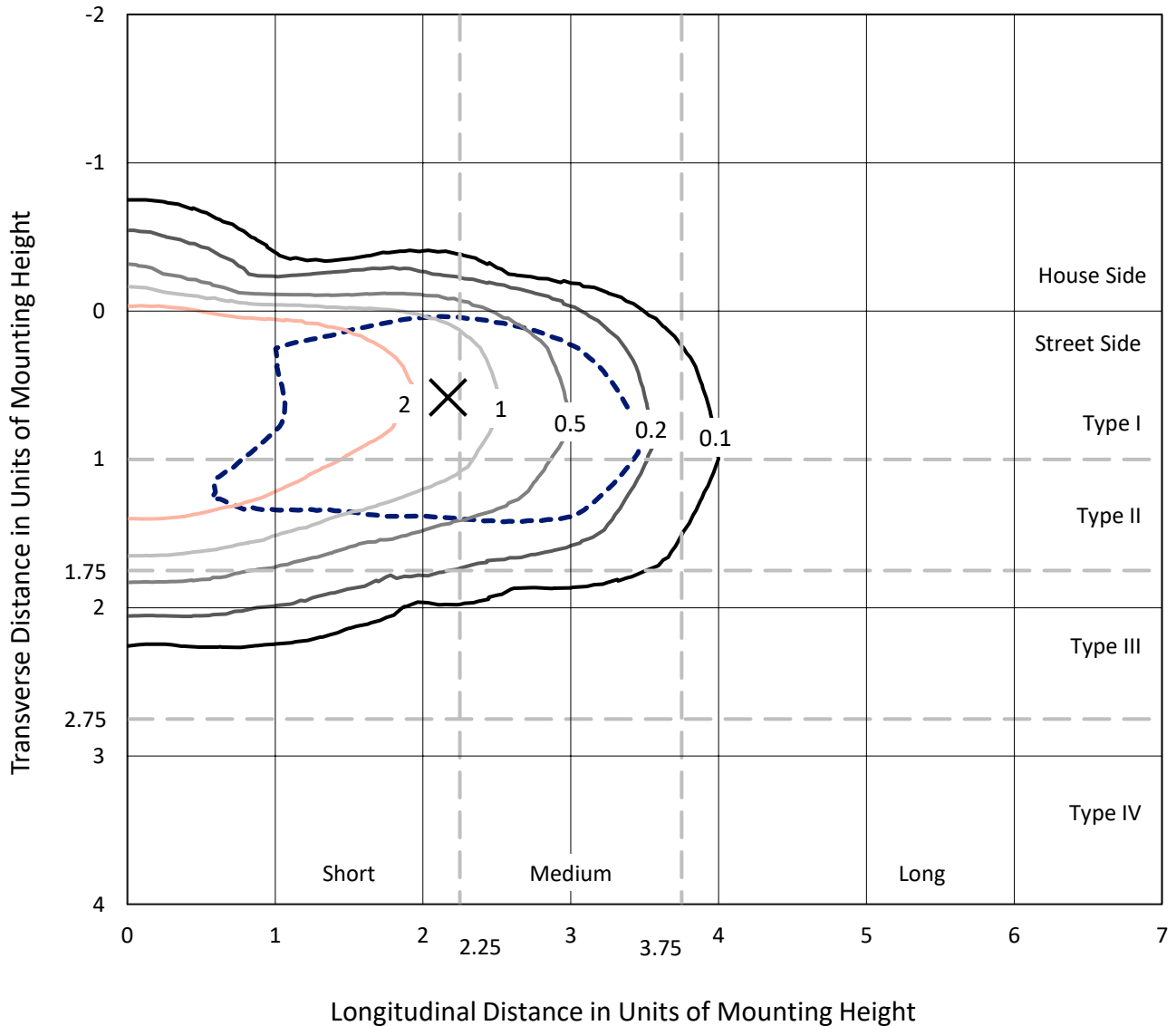
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

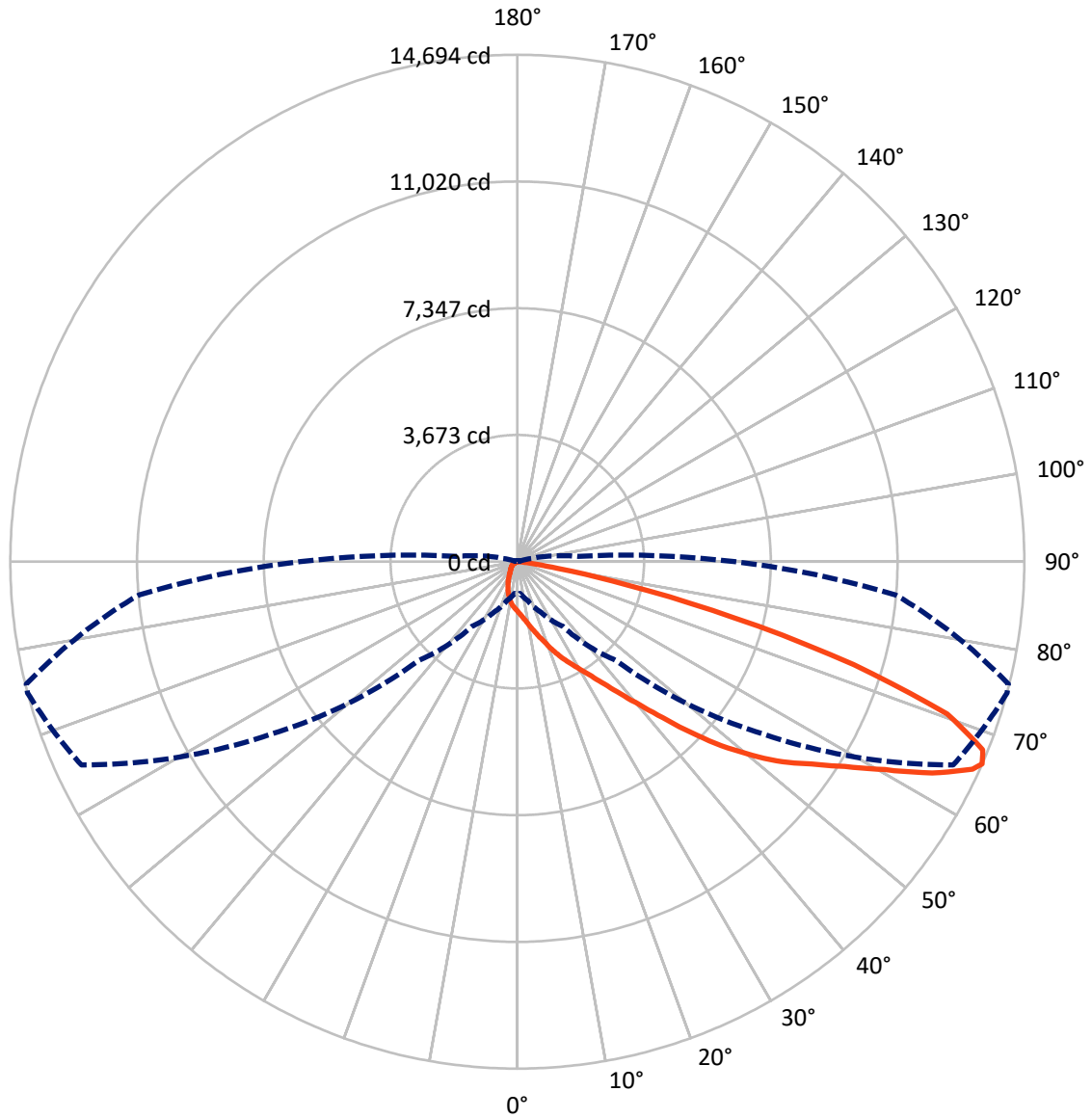
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	810.0	0.0	810.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	12311.0	0.0	12311.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	13121.0	0.0	13121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	1.1
10°-20°	407.3	3.1
20°-30°	703.3	5.4
30°-40°	1268.7	9.7
40°-50°	2291.9	17.5
50°-60°	3573.1	27.2
60°-70°	3394.3	25.9
70°-80°	1272.1	9.7
80°-90°	71.8	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°	13121.0	100.0
0°-180°	13121.0	100.0

**Coefficient of Utilization**



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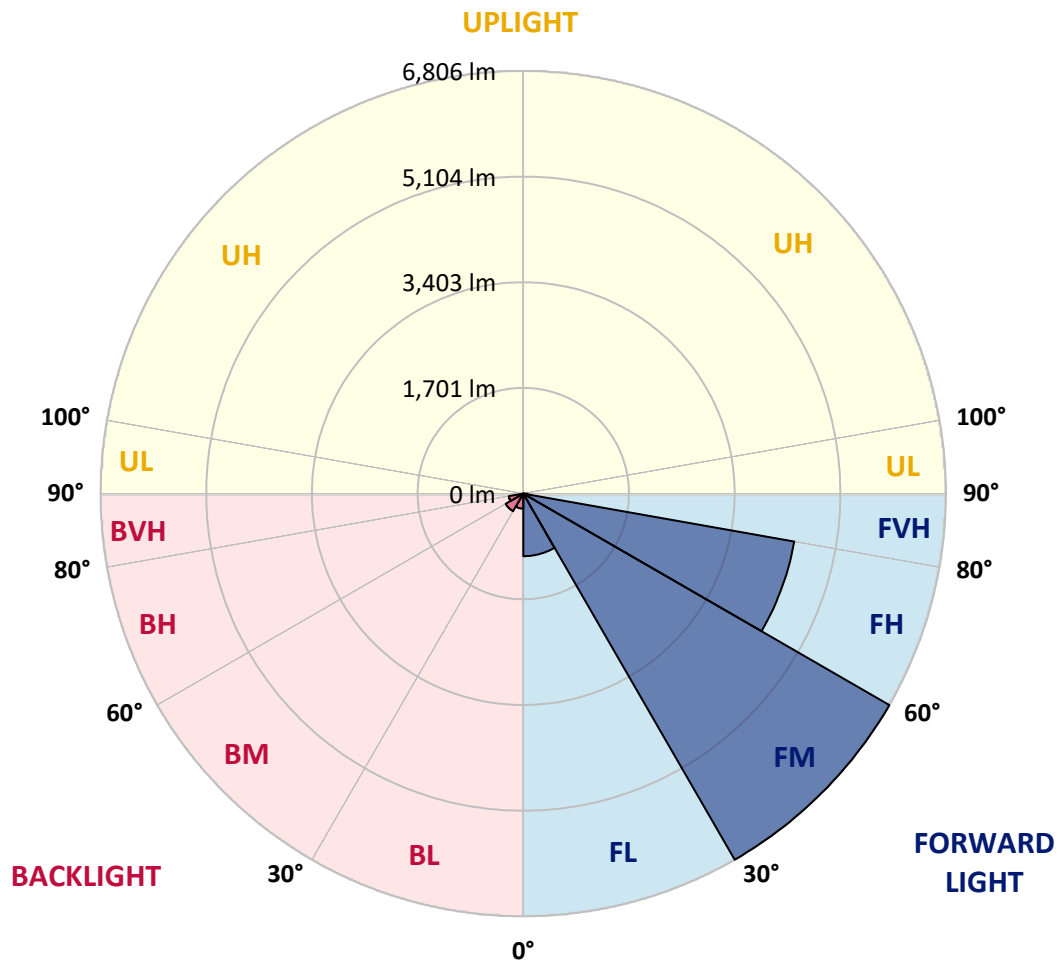
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.1	7.7			
FM (30°-60°)	6805.9	51.9			
FH (60°-80°)	4429.9	33.8			G2/5000
FVH (80°-90°)	68.1	0.5			G1/100
BL (0°-30°)	241.9	1.8	B1/500		
BM (30°-60°)	327.9	2.5	B1/1000		
BH (60°-80°)	236.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9
2.5°	1714.3	1693.0	1699.8	1690.1	1667.8	1634.8	1605.7	1563.9	1522.2	1515.4	1468.9
5°	1940.4	1934.6	1926.8	1898.7	1883.1	1832.7	1772.5	1700.7	1614.4	1598.9	1514.5
7.5°	2094.6	2091.7	2095.6	2081.1	2067.5	2021.9	1957.8	1859.9	1726.0	1717.2	1576.6
10°	2145.1	2152.9	2167.4	2190.7	2212.0	2197.5	2149.0	2026.7	1870.5	1845.3	1647.4
12.5°	2116.0	2124.7	2159.6	2221.7	2290.6	2330.4	2311.0	2221.7	2023.8	2003.4	1726.9
15°	2041.3	2052.0	2101.4	2197.5	2320.7	2433.2	2481.7	2417.7	2202.3	2169.3	1823.0
17.5°	1930.7	1946.2	2017.0	2144.1	2312.9	2507.0	2643.8	2622.4	2392.5	2361.4	1927.8
20°	1847.2	1858.9	1919.0	2064.6	2279.9	2547.7	2798.0	2858.2	2627.3	2573.9	2051.0
22.5°	1902.5	1906.4	1926.8	2014.1	2220.8	2558.4	2933.9	3103.6	2876.6	2829.1	2179.0
25°	2173.2	2134.4	2114.0	2094.6	2208.2	2548.7	3057.1	3359.8	3125.0	3074.5	2306.1
27.5°	2600.1	2582.6	2479.8	2342.0	2315.8	2561.3	3138.6	3602.3	3358.8	3304.5	2430.3
30°	3064.8	3034.8	2971.7	2769.9	2567.1	2650.6	3197.7	3838.1	3635.3	3563.5	2543.8
32.5°	3491.7	3511.1	3417.0	3209.4	2974.6	2840.7	3274.4	4095.2	3952.6	3863.3	2675.8
35°	3989.4	4028.2	3883.7	3684.8	3410.2	3184.2	3423.8	4385.3	4355.2	4242.6	2879.5
37.5°	4494.9	4518.2	4429.9	4150.5	3903.1	3620.7	3705.2	4743.3	4851.0	4754.9	3123.0
40°	4919.8	4951.8	4886.8	4638.5	4374.6	4126.2	4113.6	5133.3	5440.8	5341.9	3485.9
42.5°	5244.8	5269.1	5271.0	5095.4	4857.7	4745.2	4634.6	5631.0	6180.1	6065.6	3907.0
45°	5655.2	5690.2	5669.8	5550.5	5372.9	5352.5	5295.3	6232.5	7064.9	6920.4	4453.2
47.5°	6289.7	6313.0	6262.6	6121.9	5941.4	5973.5	5939.5	6906.8	7967.2	7843.0	5018.8
50°	6730.2	6769.0	6840.8	6897.1	6766.1	6647.7	6546.8	7536.4	8823.9	8712.3	5597.0
52.5°	6725.4	6789.4	7016.4	7299.7	7585.9	7550.0	7259.9	8232.1	9641.7	9504.0	6140.3
55°	6272.3	6396.5	6730.2	7232.8	8025.4	8420.3	8288.3	9037.3	10348.0	10254.9	6770.0
57.5°	5337.0	5412.7	5876.4	6578.9	7780.0	8829.7	9479.7	10128.8	11195.0	11151.4	7747.9
60°	3589.7	3623.7	4220.3	5088.6	6623.5	8421.2	10352.9	11449.2	12238.0	12216.6	8889.9
62.5°	2056.8	2071.4	2504.1	3236.6	4713.2	7136.7	10426.6	13078.2	13488.6	13500.2	10211.3
65°	1107.0	1114.7	1464.0	1899.6	2867.9	5086.7	9375.9	13970.7	14499.5	14521.8	11030.1
66°	955.6	918.8	1165.2	1619.2	2281.9	4048.6	8711.3	13938.7	14693.5	14669.3	11001.0
67.5°	726.7	759.7	930.4	1244.8	1691.0	2878.6	7192.0	13318.8	14546.1	14470.4	10553.7
70°	520.0	533.6	662.6	887.7	1151.6	1579.5	4595.8	11062.1	13220.8	13118.9	9194.5
72.5°	335.7	350.2	469.6	642.3	832.4	862.5	2572.9	7992.4	10192.8	10178.3	6924.2
75°	239.6	253.2	310.5	459.9	625.8	533.6	1238.9	5386.5	6479.9	6436.2	4283.4
77.5°	173.7	180.5	207.6	300.8	447.3	382.3	574.4	2876.6	3225.9	3378.2	1892.8
80°	99.9	105.8	144.6	183.4	302.7	261.0	274.6	1154.5	1190.4	1133.2	591.8
82.5°	49.5	56.3	86.3	125.2	189.2	175.6	126.1	347.3	366.7	357.0	149.4
85°	11.6	14.6	48.5	82.5	92.2	78.6	61.1	101.9	126.1	123.2	57.2
87.5°	1.0	1.9	17.5	14.6	15.5	26.2	21.3	26.2	40.7	37.8	20.4
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°	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9
2.5°	1447.5	1429.1	1375.7	1323.3	1279.7	1234.1	1192.4	1168.1	1158.4	1147.7	1152.6
5°	1467.9	1423.3	1315.6	1222.4	1131.2	1053.6	991.5	951.8	932.4	929.4	924.6
7.5°	1495.1	1418.4	1251.5	1106.0	986.7	900.3	829.5	772.3	754.8	739.3	726.7
10°	1528.0	1409.7	1172.0	983.8	856.7	748.0	654.9	587.0	552.0	542.3	549.1
12.5°	1563.0	1393.2	1088.6	871.2	724.7	586.0	499.6	465.7	456.0	452.1	453.1
15°	1597.9	1372.8	1001.2	762.6	577.3	467.6	427.9	419.1	415.2	413.3	411.4
17.5°	1629.9	1339.8	903.2	656.8	467.6	399.7	385.2	377.4	369.6	366.7	361.9
20°	1667.8	1302.0	815.0	538.5	395.8	361.9	344.4	329.9	318.2	310.5	309.5
22.5°	1703.7	1253.5	722.8	446.3	360.9	325.0	296.9	281.4	267.8	258.1	261.0
25°	1723.1	1194.3	640.3	389.0	328.9	288.1	257.1	237.7	223.1	218.3	217.3
27.5°	1723.1	1121.5	559.8	356.1	299.8	255.2	223.1	204.7	195.0	188.2	189.2
30°	1709.5	1041.0	485.1	330.8	274.6	226.1	196.0	179.5	171.7	166.9	165.9
32.5°	1698.8	964.4	421.1	306.6	248.4	200.8	174.6	162.0	154.3	149.4	149.4
35°	1715.3	898.4	371.6	282.3	224.1	181.4	158.1	146.5	138.7	134.9	133.9
37.5°	1759.0	838.2	333.7	256.1	201.8	164.9	146.5	132.9	125.2	120.3	118.4
40°	1866.6	804.3	305.6	231.9	180.5	151.3	132.9	120.3	110.6	105.8	104.8
42.5°	2039.3	805.3	278.4	209.6	164.0	139.7	121.3	106.7	96.0	91.2	90.2
45°	2299.4	842.1	257.1	188.2	149.4	127.1	108.7	93.1	83.4	78.6	78.6
47.5°	2610.8	913.9	238.7	169.8	135.8	115.5	96.0	80.5	70.8	66.9	66.9
50°	2948.4	1007.1	220.2	150.4	124.2	102.8	82.5	69.9	62.1	59.2	59.2
52.5°	3292.8	1119.6	201.8	134.9	111.6	89.3	70.8	62.1	55.3	53.4	52.4
55°	3744.9	1263.2	182.4	118.4	98.0	76.6	63.1	54.3	46.6	43.7	42.7
57.5°	4440.6	1479.5	161.1	103.8	80.5	64.0	54.3	45.6	36.9	32.0	31.0
60°	5279.8	1743.4	138.7	91.2	65.0	52.4	43.7	34.9	27.2	21.3	20.4
62.5°	6065.6	1911.3	117.4	76.6	51.4	39.8	31.0	26.2	19.4	13.6	12.6
65°	6413.0	1855.0	97.0	62.1	40.7	28.1	20.4	18.4	11.6	5.8	4.9
66°	6297.5	1771.6	89.3	56.3	36.9	24.3	17.5	15.5	8.7	2.9	2.9
67.5°	5957.0	1574.6	77.6	48.5	32.0	19.4	13.6	11.6	4.9	1.0	0.0
70°	5104.2	1273.9	61.1	35.9	23.3	13.6	7.8	5.8	2.9	0.0	0.0
72.5°	3920.5	948.8	48.5	27.2	16.5	7.8	3.9	1.9	2.9	0.0	0.0
75°	2402.2	542.3	37.8	20.4	10.7	4.9	2.9	0.0	2.9	1.0	0.0
77.5°	1066.2	243.5	25.2	13.6	7.8	3.9	1.9	0.0	1.9	1.0	0.0
80°	269.7	79.6	14.6	9.7	5.8	2.9	1.0	0.0	1.9	1.9	1.0
82.5°	73.7	29.1	10.7	7.8	4.9	2.9	1.0	0.0	1.9	1.9	1.9
85°	29.1	13.6	9.7	7.8	5.8	2.9	1.0	0.0	1.9	1.9	1.9
87.5°	13.6	9.7	9.7	8.7	6.8	2.9	1.0	0.0	1.9	1.0	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)