

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: P453459

Luminaire Tested: **GALN-SA4C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17077 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

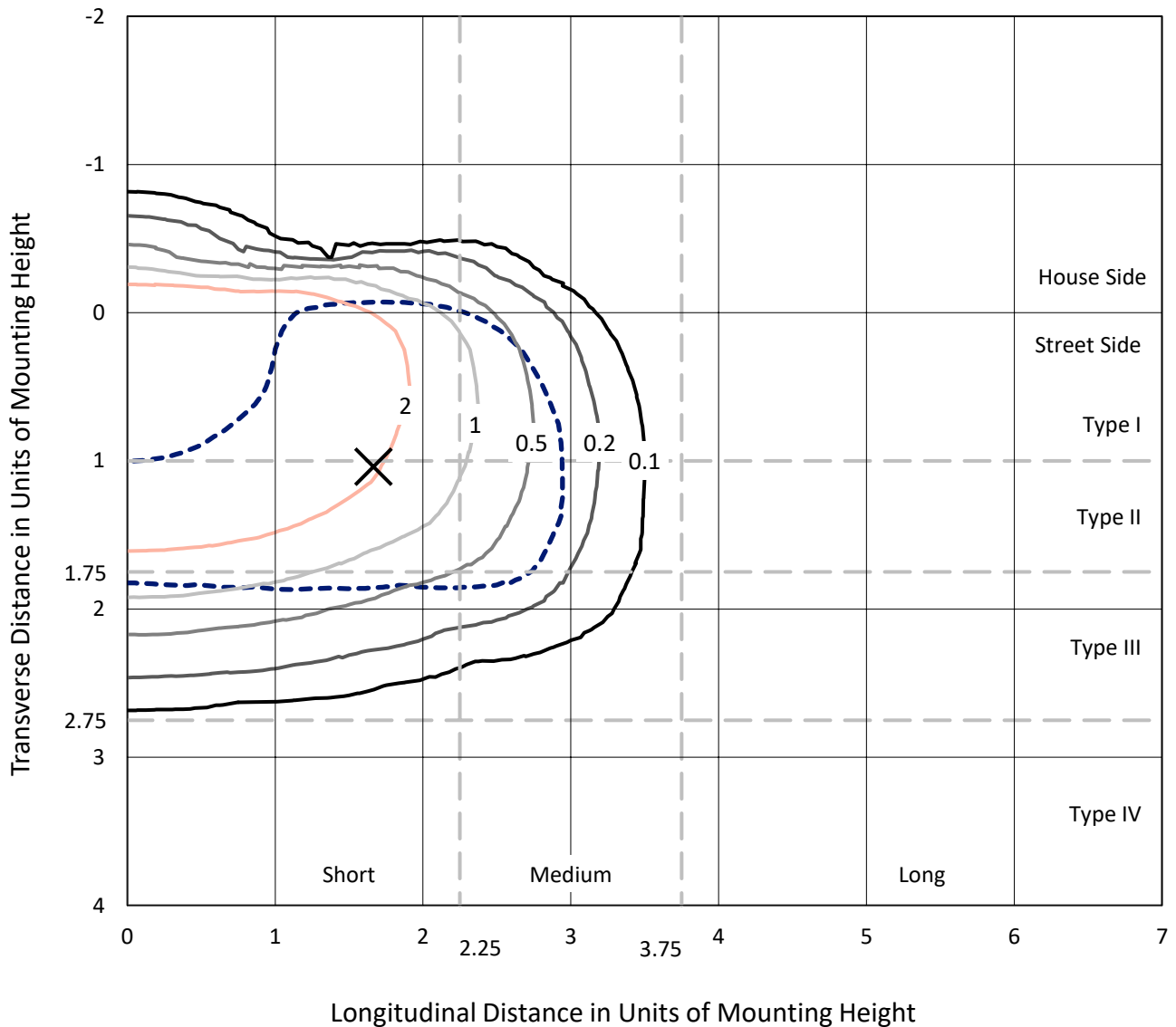
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453459
 CATALOG NUMBER: GALN-SA4C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

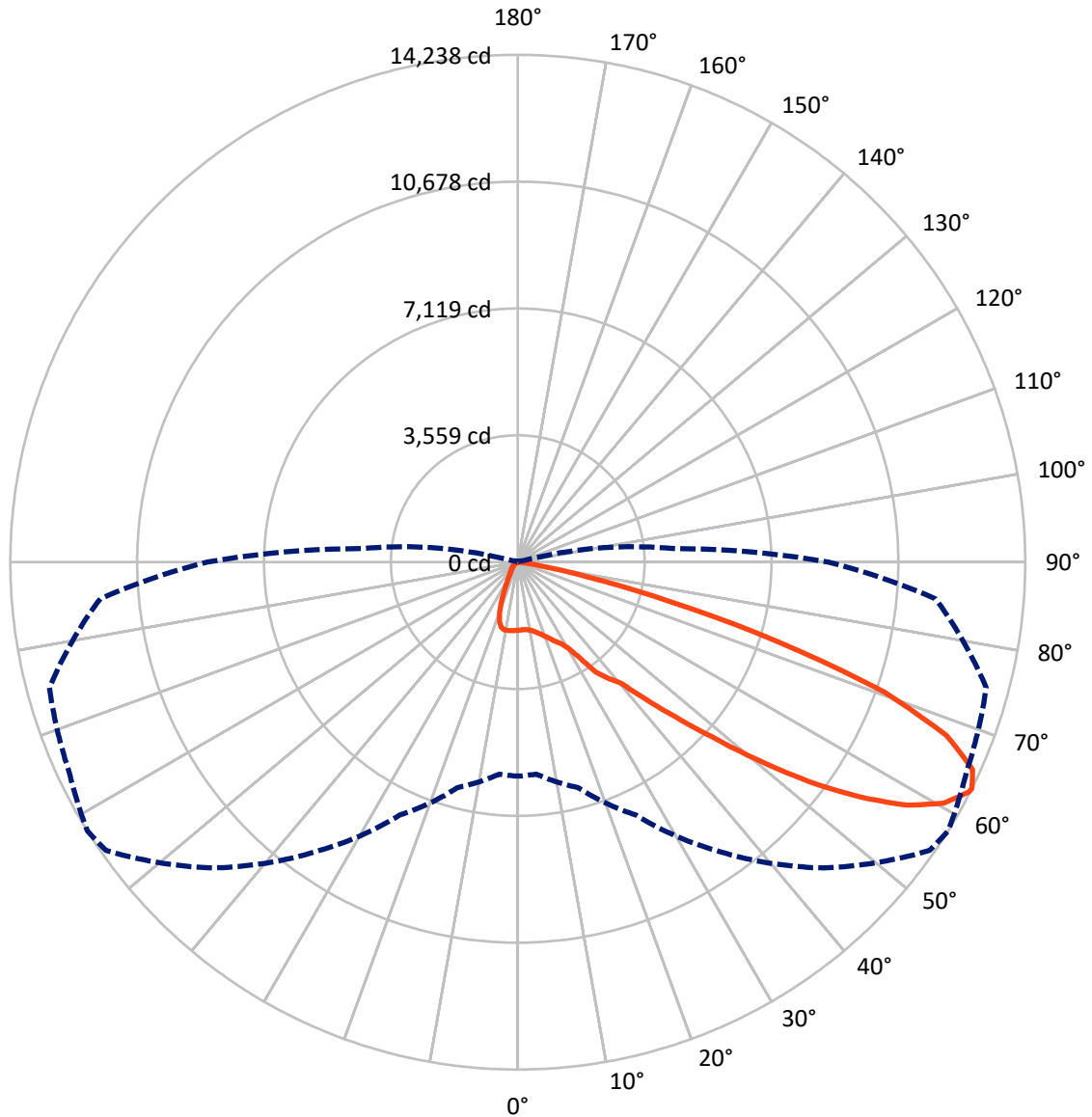
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P453459
CATALOG NUMBER: GALN-SA4C-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P453459

CATALOG NUMBER: GALN-SA4C-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.2	0.0	1768.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15308.8	0.0	15308.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	17077.0	0.0	17077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	1.0
10°-20°	487.5	2.9
20°-30°	846.0	5.0
30°-40°	1554.6	9.1
40°-50°	2926.6	17.1
50°-60°	5005.7	29.3
60°-70°	4792.9	28.1
70°-80°	1222.2	7.2
80°-90°	62.5	0.4
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°	17077.0	100.0
0°-180°	17077.0	100.0



REPORT NUMBER: P453459

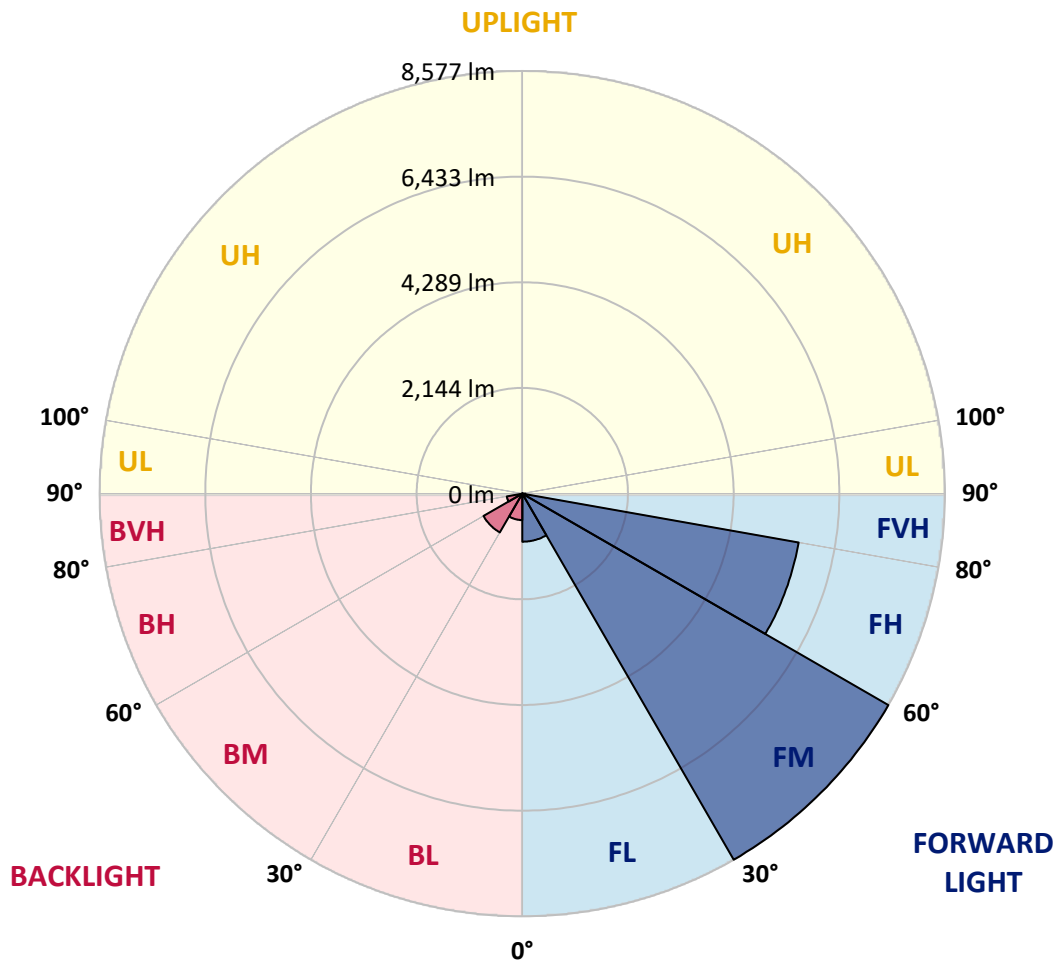
CATALOG NUMBER: GALN-SA4C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.2	5.7			
FM (30°-60°)	8577.4	50.2			
FH (60°-80°)	5695.1	33.3			G3/7500
FVH (80°-90°)	60.1	0.4			G1/100
BL (0°-30°)	536.2	3.1	B2/1000		
BM (30°-60°)	909.5	5.3	B1/1000		
BH (60°-80°)	320.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P453459

CATALOG NUMBER: GALN-SA4C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8
2.5°	1864.3	1870.7	1877.1	1879.7	1888.7	1897.7	1904.1	1902.8	1913.1	1918.3	1918.3
5°	1789.7	1789.7	1806.4	1821.8	1847.6	1873.3	1897.7	1902.8	1922.1	1940.1	1946.6
7.5°	1726.7	1730.6	1743.4	1771.7	1806.4	1851.4	1900.3	1911.8	1945.3	1985.1	2001.8
10°	1697.1	1699.7	1716.4	1746.0	1789.7	1851.4	1919.6	1941.4	1992.8	2055.8	2079.0
12.5°	1690.7	1694.6	1711.3	1744.7	1794.8	1869.4	1962.0	1985.1	2059.7	2140.7	2175.4
15°	1702.3	1704.8	1721.6	1757.6	1812.8	1901.6	2018.5	2050.7	2139.4	2233.3	2278.3
17.5°	1743.4	1740.8	1752.4	1782.0	1843.7	1941.4	2086.7	2125.3	2229.4	2358.0	2387.5
20°	1918.3	1901.6	1891.3	1865.6	1890.0	1998.0	2169.0	2225.5	2354.1	2485.3	2505.8
22.5°	2295.0	2257.7	2184.4	2084.1	2007.0	2075.1	2268.0	2333.5	2499.4	2628.0	2628.0
25°	2774.5	2727.0	2653.7	2435.1	2246.1	2202.4	2379.8	2462.1	2657.5	2787.4	2745.0
27.5°	3375.0	3337.7	3195.0	2940.4	2651.1	2424.8	2509.7	2585.5	2797.7	2954.5	2865.8
30°	3863.5	3845.5	3728.5	3501.0	3182.1	2851.7	2751.4	2801.5	2984.1	3165.4	3074.1
32.5°	4276.2	4276.2	4156.7	3944.5	3646.2	3353.1	3161.5	3197.5	3372.4	3582.0	3412.2
35°	4730.1	4714.7	4618.2	4416.4	4082.1	3823.7	3745.2	3794.1	3952.2	4107.8	3690.0
37.5°	5207.1	5201.9	5101.7	4906.2	4633.7	4308.4	4124.5	4137.4	4218.4	4313.5	4015.2
40°	5725.2	5732.9	5601.8	5480.9	5223.8	4890.8	4538.5	4457.5	4533.4	4802.1	4615.7
42.5°	6337.2	6319.2	6262.6	6098.1	5891.1	5691.8	5268.8	5239.2	5306.1	5594.1	5392.2
45°	7048.2	7073.9	6976.2	6884.9	6746.1	6580.2	6226.6	6175.2	6248.5	6695.9	6409.2
47.5°	7760.5	7736.1	7799.1	7782.3	7856.9	7733.5	7421.1	7315.6	7491.8	7916.1	7494.3
50°	8303.1	8330.1	8461.2	8652.8	8972.9	9042.3	8742.8	8706.8	8785.2	9057.8	8465.1
52.5°	8655.3	8745.3	8951.0	9443.5	10020.7	10469.5	10241.9	10222.6	10190.5	10263.7	9393.3
55°	8885.5	8976.8	9245.5	9970.6	10964.5	11693.4	11705.0	11622.7	11410.6	11357.9	10261.2
57.5°	8744.0	8762.0	9145.2	10114.6	11487.7	12566.4	12944.4	12862.1	12470.0	12270.7	11027.5
60°	7859.5	7896.8	8430.3	9569.5	11260.2	12851.9	13766.0	13728.7	13299.3	13074.3	11624.0
62.5°	6292.2	6400.2	6949.2	8219.5	10202.0	12371.0	14099.0	14204.4	13870.1	13560.3	11811.7
63°	6004.2	5969.5	6549.4	7826.1	9921.7	12133.2	14104.1	14237.8	13895.8	13606.6	11760.3
65°	4444.7	4548.8	4925.5	6171.4	8256.8	11026.2	13786.6	14023.1	13800.7	13402.1	11190.7
67.5°	2495.5	2490.4	2907.0	4038.4	5779.2	8648.9	12466.1	12966.3	12920.0	12026.4	9276.3
70°	1221.4	1240.7	1411.7	2093.1	3351.8	5966.9	10358.9	10898.9	10915.6	9446.0	6414.4
72.5°	552.9	561.9	684.0	1019.6	1722.8	3177.0	7138.2	7653.8	7558.6	6019.6	3542.1
75°	291.9	311.1	376.7	513.0	830.6	1310.1	3882.8	4381.7	4182.4	2750.1	1303.7
77.5°	216.0	222.4	255.9	326.6	444.9	510.4	1675.3	1992.8	1866.8	995.1	432.0
80°	158.1	163.3	190.3	231.4	280.3	259.7	631.3	723.8	649.3	338.1	132.4
82.5°	96.4	97.7	138.9	172.3	176.1	145.3	208.3	223.7	234.0	190.3	72.0
85°	34.7	43.7	93.9	124.7	104.1	73.3	87.4	96.4	105.4	120.9	42.4
87.5°	3.9	5.1	45.0	60.4	29.6	27.0	32.1	36.0	38.6	45.0	20.6
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°	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8
2.5°	1923.4	1928.6	1924.7	1918.3	1917.0	1913.1	1905.4	1905.4	1905.4	1908.0	1905.4
5°	1951.7	1955.6	1946.6	1933.7	1919.6	1901.6	1882.3	1870.7	1869.4	1866.8	1860.4
7.5°	2005.7	2010.8	1990.3	1959.4	1920.8	1877.1	1836.0	1797.4	1779.4	1765.3	1765.3
10°	2084.1	2089.3	2048.1	1992.8	1915.7	1827.0	1729.3	1640.6	1571.1	1539.0	1531.3
12.5°	2178.0	2180.5	2112.4	2016.0	1888.7	1717.7	1509.4	1315.3	1180.3	1118.6	1112.1
15°	2280.8	2262.8	2172.8	2025.0	1811.6	1492.7	1132.7	894.8	754.7	713.6	729.0
17.5°	2385.0	2351.5	2219.1	2010.8	1638.0	1132.7	761.1	610.7	567.0	555.4	555.4
20°	2482.7	2436.4	2252.5	1949.1	1337.1	780.4	564.4	528.4	520.7	513.0	514.3
22.5°	2580.4	2509.7	2282.1	1811.6	996.4	558.0	505.3	493.7	483.4	473.1	471.9
25°	2675.5	2577.8	2293.7	1557.0	678.8	479.6	461.6	446.1	425.6	414.0	411.4
27.5°	2774.5	2660.1	2286.0	1235.6	495.0	429.4	411.4	389.6	365.1	344.6	344.6
30°	2964.8	2817.0	2259.0	888.4	416.6	378.0	354.9	320.1	293.1	272.6	271.3
32.5°	3224.5	3021.4	2166.4	624.9	370.3	333.0	298.3	259.7	231.4	216.0	216.0
35°	3456.0	3227.1	1992.8	460.3	333.0	289.3	246.9	209.6	187.7	177.4	173.6
37.5°	3808.2	3528.0	1753.7	374.1	297.0	250.7	207.0	172.3	154.3	146.6	146.6
40°	4336.7	3895.7	1460.6	327.9	262.3	213.4	172.3	145.3	131.1	122.1	122.1
42.5°	4992.4	4345.7	1163.6	294.4	230.1	183.9	144.0	123.4	110.6	104.1	102.9
45°	5817.8	4820.1	896.1	263.6	204.4	156.9	122.1	104.1	91.3	87.4	88.7
47.5°	6679.2	5237.9	694.3	236.6	177.4	132.4	104.1	90.0	81.0	75.9	75.9
50°	7414.6	5525.9	527.1	205.7	156.9	111.9	91.3	81.0	73.3	70.7	69.4
52.5°	8029.2	5609.5	403.7	178.7	137.6	96.4	81.0	73.3	66.9	63.0	63.0
55°	8552.5	5536.2	316.3	150.4	115.7	83.6	72.0	65.6	57.9	54.0	52.7
57.5°	8858.5	5300.9	241.7	124.7	93.9	69.4	63.0	55.3	46.3	39.9	39.9
60°	9012.8	4958.9	185.1	102.9	72.0	55.3	51.4	41.1	32.1	27.0	25.7
62.5°	8827.6	4505.1	140.1	81.0	54.0	41.1	34.7	29.6	20.6	15.4	15.4
63°	8713.2	4374.0	135.0	77.1	50.1	38.6	32.1	27.0	18.0	14.1	12.9
65°	7943.1	3801.8	110.6	61.7	39.9	27.0	21.9	19.3	12.9	6.4	5.1
67.5°	6307.6	2908.3	87.4	46.3	28.3	19.3	12.9	11.6	3.9	0.0	0.0
70°	4264.7	1878.4	68.1	33.4	19.3	11.6	6.4	5.1	1.3	0.0	0.0
72.5°	2224.3	963.0	52.7	24.4	11.6	7.7	3.9	1.3	0.0	0.0	0.0
75°	786.8	327.9	38.6	15.4	7.7	3.9	1.3	0.0	0.0	0.0	0.0
77.5°	237.9	122.1	24.4	11.6	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	83.6	45.0	14.1	7.7	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.1	21.9	9.0	6.4	3.9	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.1	14.1	7.7	6.4	3.9	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	10.3	7.7	6.4	5.1	2.6	1.3	0.0	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)