

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: P458998

Luminaire Tested: **GALN-SA5A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458998
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-SA5A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 15663 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

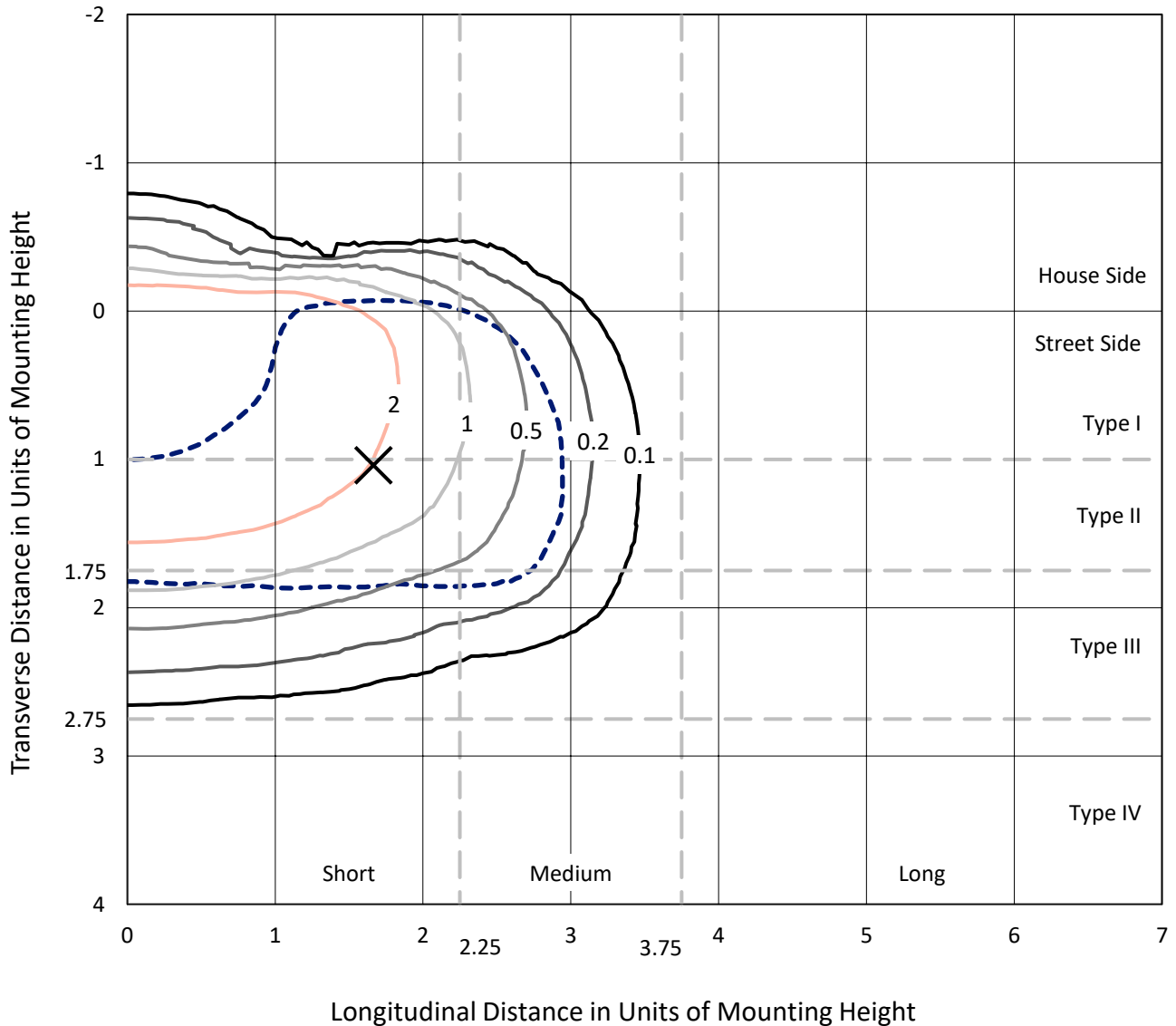
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

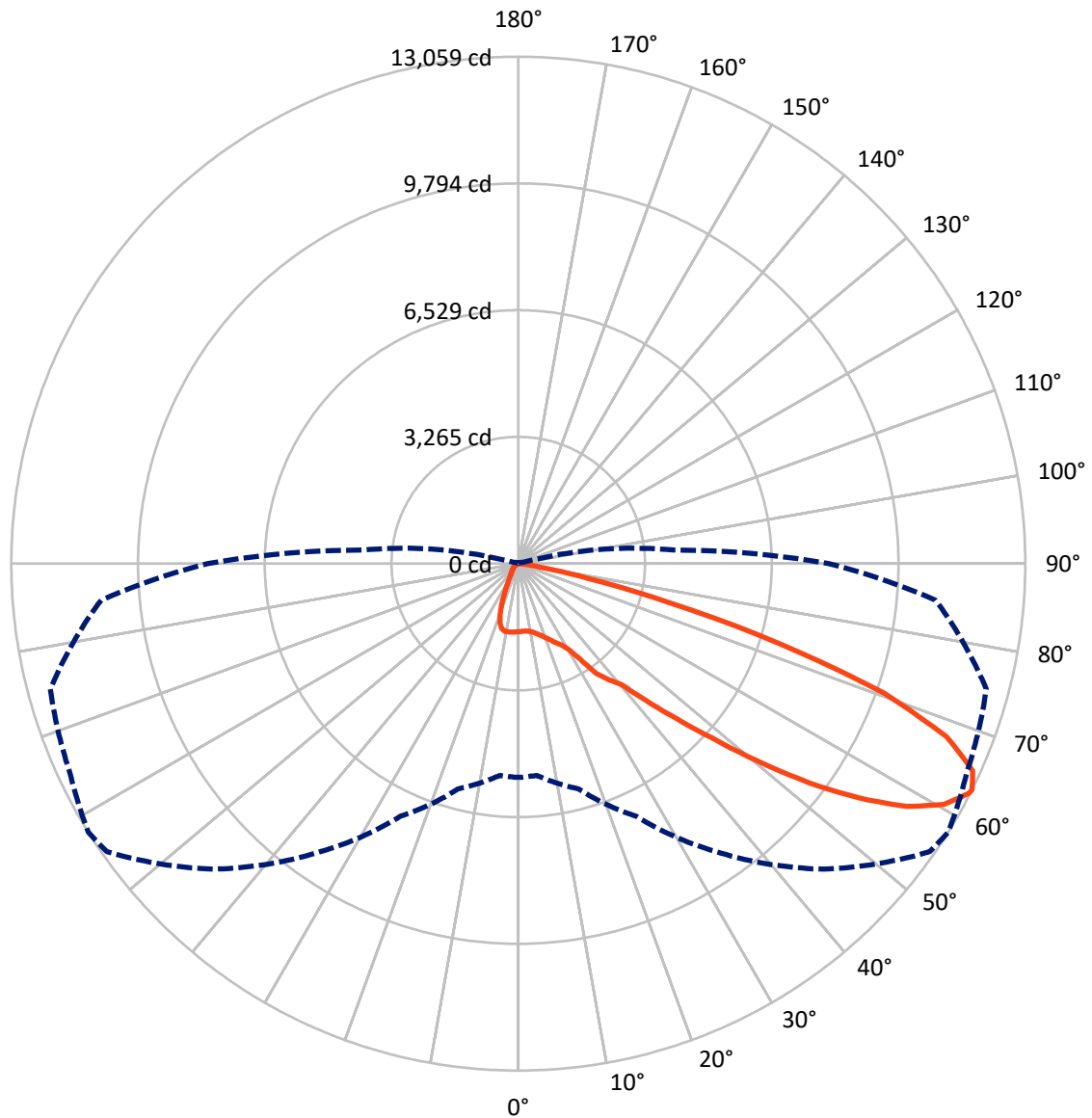
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.8	0.0	1621.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14041.2	0.0	14041.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	15663.0	0.0	15663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.0
10°-20°	447.1	2.9
20°-30°	776.0	5.0
30°-40°	1425.9	9.1
40°-50°	2684.3	17.1
50°-60°	4591.2	29.3
60°-70°	4396.1	28.1
70°-80°	1121.0	7.2
80°-90°	57.3	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°	15663.0	100.0
0°-180°	15663.0	100.0

Coefficient of Utilization



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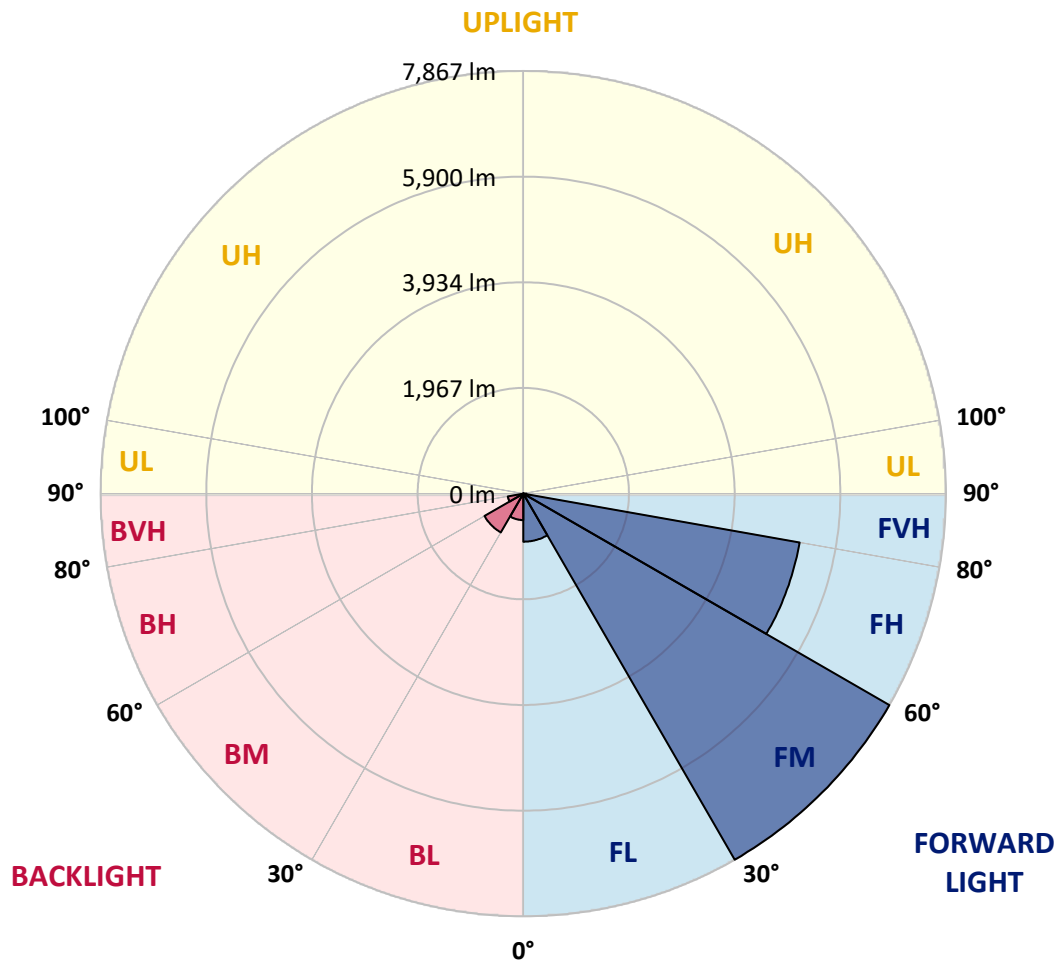
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.4	5.7			
FM (30°-60°)	7867.2	50.2			
FH (60°-80°)	5223.5	33.3			G3/7500
FVH (80°-90°)	55.1	0.4			G1/100
BL (0°-30°)	491.8	3.1	B1/500		
BM (30°-60°)	834.2	5.3	B1/1000		
BH (60°-80°)	293.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5
2.5°	1709.9	1715.8	1721.7	1724.1	1732.3	1740.6	1746.5	1745.3	1754.7	1759.4	1759.4
5°	1641.5	1641.5	1656.8	1671.0	1694.6	1718.2	1740.6	1745.3	1763.0	1779.5	1785.4
7.5°	1583.7	1587.3	1599.1	1625.0	1656.8	1698.1	1742.9	1753.5	1784.2	1820.8	1836.1
10°	1556.6	1559.0	1574.3	1601.4	1641.5	1698.1	1760.6	1780.7	1827.8	1885.6	1906.8
12.5°	1550.7	1554.2	1569.6	1600.2	1646.2	1714.6	1799.5	1820.8	1889.1	1963.4	1995.3
15°	1561.3	1563.7	1579.0	1612.0	1662.7	1744.1	1851.4	1880.9	1962.3	2048.3	2089.6
17.5°	1599.1	1596.7	1607.3	1634.4	1691.0	1780.7	1913.9	1949.3	2044.8	2162.7	2189.9
20°	1759.4	1744.1	1734.7	1711.1	1733.5	1832.5	1989.4	2041.3	2159.2	2279.5	2298.3
22.5°	2104.9	2070.7	2003.5	1911.6	1840.8	1903.3	2080.2	2140.3	2292.4	2410.4	2410.4
25°	2544.8	2501.2	2434.0	2233.5	2060.1	2020.0	2182.8	2258.2	2437.5	2556.6	2517.7
27.5°	3095.5	3061.3	2930.4	2696.9	2431.6	2224.1	2301.9	2371.5	2566.0	2709.9	2628.5
30°	3543.6	3527.1	3419.8	3211.1	2918.6	2615.6	2523.6	2569.6	2737.0	2903.3	2819.6
32.5°	3922.2	3922.2	3812.5	3617.9	3344.3	3075.5	2899.8	2932.8	3093.2	3285.4	3129.7
35°	4338.4	4324.3	4235.8	4050.7	3744.1	3507.1	3435.1	3479.9	3625.0	3767.7	3384.4
37.5°	4775.9	4771.2	4679.2	4500.0	4250.0	3951.6	3783.0	3794.8	3869.1	3956.4	3682.8
40°	5251.2	5258.2	5138.0	5027.1	4791.3	4485.8	4162.7	4088.4	4158.0	4404.5	4233.5
42.5°	5812.5	5796.0	5744.1	5593.1	5403.3	5220.5	4832.5	4805.4	4866.7	5130.9	4945.7
45°	6464.6	6488.2	6398.6	6314.8	6187.5	6035.4	5711.1	5663.9	5731.1	6141.5	5878.5
47.5°	7117.9	7095.5	7153.3	7138.0	7206.4	7093.1	6806.6	6709.9	6871.4	7260.6	6873.8
50°	7615.5	7640.3	7760.6	7936.3	8229.9	8293.6	8018.8	7985.8	8057.8	8307.8	7764.1
52.5°	7938.7	8021.2	8209.9	8661.5	9191.0	9602.6	9393.8	9376.2	9346.7	9413.9	8615.5
55°	8149.7	8233.5	8479.9	9145.0	10056.6	10725.2	10735.8	10660.4	10465.8	10417.4	9411.5
57.5°	8020.0	8036.5	8388.0	9277.1	10536.5	11525.9	11872.6	11797.1	11437.5	11254.7	10114.4
60°	7208.7	7242.9	7732.3	8777.1	10327.8	11787.7	12626.1	12592.0	12198.1	11991.7	10661.5
62.5°	5771.2	5870.3	6373.8	7538.9	9357.3	11346.7	12931.6	13028.3	12721.7	12437.5	10833.7
63°	5507.1	5475.2	6007.1	7178.0	9100.2	11128.5	12936.3	13058.9	12745.3	12479.9	10786.5
65°	4076.6	4172.2	4517.7	5660.4	7573.1	10113.2	12645.0	12862.0	12658.0	12292.4	10264.1
67.5°	2288.9	2284.2	2666.3	3704.0	5300.7	7932.8	11433.9	11892.7	11850.2	11030.6	8508.2
70°	1120.3	1138.0	1294.8	1919.8	3074.3	5472.9	9501.2	9996.4	10011.8	8663.9	5883.2
72.5°	507.1	515.3	627.4	935.1	1580.2	2913.9	6547.2	7020.0	6932.8	5521.2	3248.8
75°	267.7	285.4	345.5	470.5	761.8	1201.6	3561.3	4018.9	3836.1	2522.4	1195.8
77.5°	198.1	204.0	234.7	299.5	408.0	468.2	1536.6	1827.8	1712.3	912.7	396.2
80°	145.0	149.8	174.5	212.3	257.1	238.2	579.0	663.9	595.5	310.1	121.5
82.5°	88.4	89.6	127.4	158.0	161.6	133.3	191.0	205.2	214.6	174.5	66.0
85°	31.8	40.1	86.1	114.4	95.5	67.2	80.2	88.4	96.7	110.8	38.9
87.5°	3.5	4.7	41.3	55.4	27.1	24.8	29.5	33.0	35.4	41.3	18.9
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°	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5	1753.5
2.5°	1764.1	1768.9	1765.3	1759.4	1758.3	1754.7	1747.6	1747.6	1747.6	1750.0	1747.6
5°	1790.1	1793.6	1785.4	1773.6	1760.6	1744.1	1726.4	1715.8	1714.6	1712.3	1706.4
7.5°	1839.6	1844.3	1825.5	1797.2	1761.8	1721.7	1684.0	1648.6	1632.1	1619.1	1619.1
10°	1911.6	1916.3	1878.5	1827.8	1757.1	1675.7	1586.1	1504.7	1441.0	1411.6	1404.5
12.5°	1997.6	2000.0	1937.5	1849.1	1732.3	1575.5	1384.4	1206.4	1082.5	1025.9	1020.0
15°	2092.0	2075.5	1992.9	1857.3	1661.6	1369.1	1038.9	820.8	692.2	654.5	668.6
17.5°	2187.5	2156.8	2035.4	1844.3	1502.4	1038.9	698.1	560.1	520.0	509.4	509.4
20°	2277.1	2234.7	2066.0	1787.7	1226.4	715.8	517.7	484.7	477.6	470.5	471.7
22.5°	2366.7	2301.9	2093.2	1661.6	913.9	511.8	463.4	452.8	443.4	434.0	432.8
25°	2454.0	2364.4	2103.8	1428.1	622.6	439.9	423.3	409.2	390.3	379.7	377.4
27.5°	2544.8	2439.9	2096.7	1133.3	454.0	393.9	377.4	357.3	334.9	316.0	316.0
30°	2719.3	2583.7	2071.9	814.9	382.1	346.7	325.5	293.6	268.9	250.0	248.8
32.5°	2957.5	2771.2	1987.0	573.1	339.6	305.4	273.6	238.2	212.3	198.1	198.1
35°	3169.8	2959.9	1827.8	422.2	305.4	265.3	226.4	192.2	172.2	162.7	159.2
37.5°	3492.9	3235.8	1608.5	343.2	272.4	230.0	189.9	158.0	141.5	134.4	134.4
40°	3977.6	3573.1	1339.6	300.7	240.6	195.8	158.0	133.3	120.3	112.0	112.0
42.5°	4579.0	3985.8	1067.2	270.0	211.1	168.6	132.1	113.2	101.4	95.5	94.3
45°	5336.1	4421.0	821.9	241.7	187.5	143.9	112.0	95.5	83.7	80.2	81.4
47.5°	6126.2	4804.2	636.8	217.0	162.7	121.5	95.5	82.5	74.3	69.6	69.6
50°	6800.7	5068.4	483.5	188.7	143.9	102.6	83.7	74.3	67.2	64.9	63.7
52.5°	7364.4	5145.0	370.3	163.9	126.2	88.4	74.3	67.2	61.3	57.8	57.8
55°	7844.3	5077.8	290.1	138.0	106.1	76.7	66.0	60.1	53.1	49.5	48.3
57.5°	8125.0	4862.0	221.7	114.4	86.1	63.7	57.8	50.7	42.5	36.6	36.6
60°	8266.5	4548.3	169.8	94.3	66.0	50.7	47.2	37.7	29.5	24.8	23.6
62.5°	8096.7	4132.1	128.5	74.3	49.5	37.7	31.8	27.1	18.9	14.2	14.2
63°	7991.7	4011.8	123.8	70.8	46.0	35.4	29.5	24.8	16.5	13.0	11.8
65°	7285.4	3487.0	101.4	56.6	36.6	24.8	20.0	17.7	11.8	5.9	4.7
67.5°	5785.4	2667.4	80.2	42.5	25.9	17.7	11.8	10.6	3.5	0.0	0.0
70°	3911.5	1722.9	62.5	30.7	17.7	10.6	5.9	4.7	1.2	0.0	0.0
72.5°	2040.1	883.3	48.3	22.4	10.6	7.1	3.5	1.2	0.0	0.0	0.0
75°	721.7	300.7	35.4	14.2	7.1	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	218.2	112.0	22.4	10.6	4.7	2.4	0.0	0.0	0.0	0.0	0.0
80°	76.7	41.3	13.0	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.7	20.0	8.3	5.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.2	13.0	7.1	5.9	3.5	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	9.4	7.1	5.9	4.7	2.4	1.2	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)