

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: P452885

Luminaire Tested: **GALN-SA3D-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16706 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

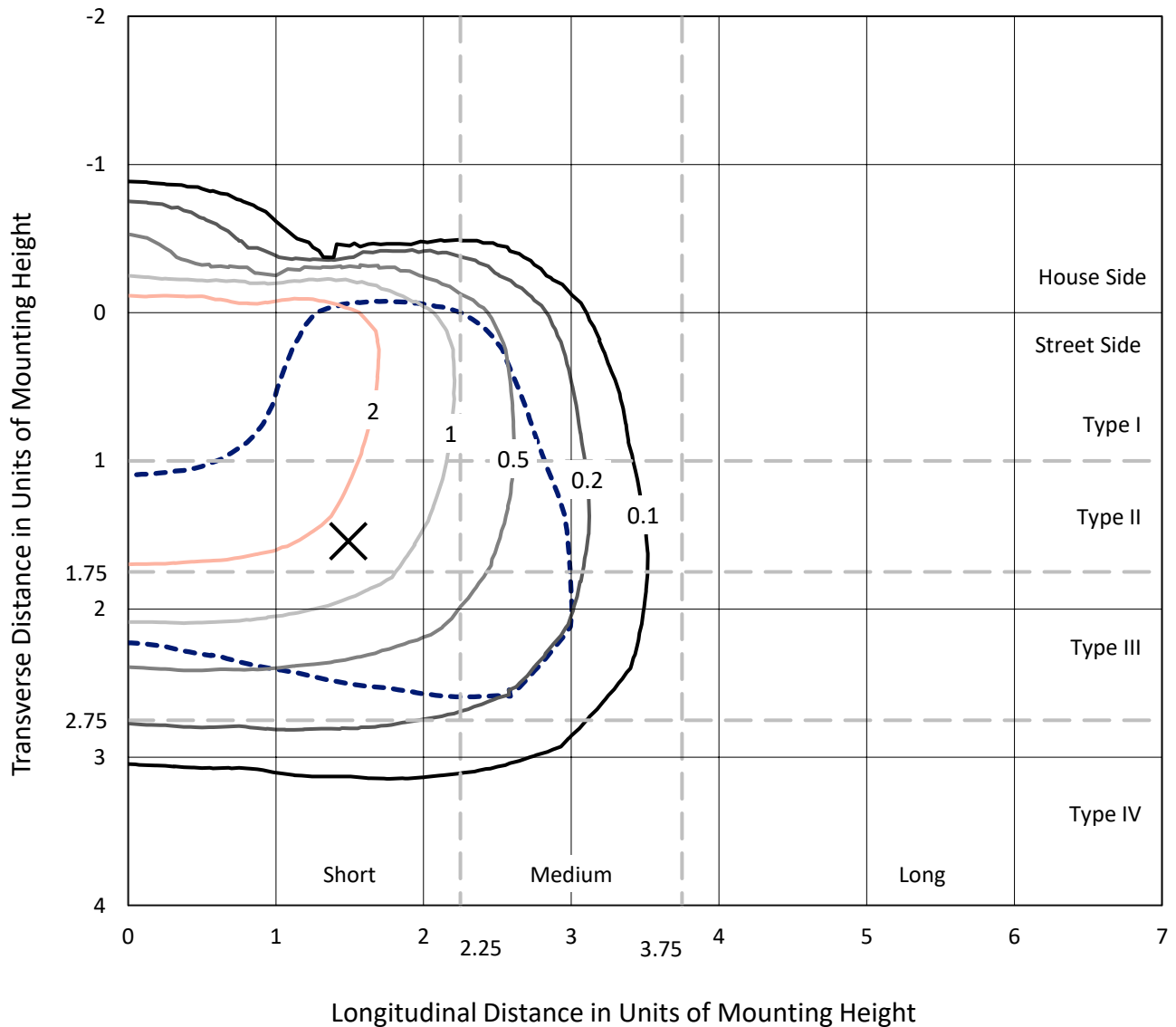
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

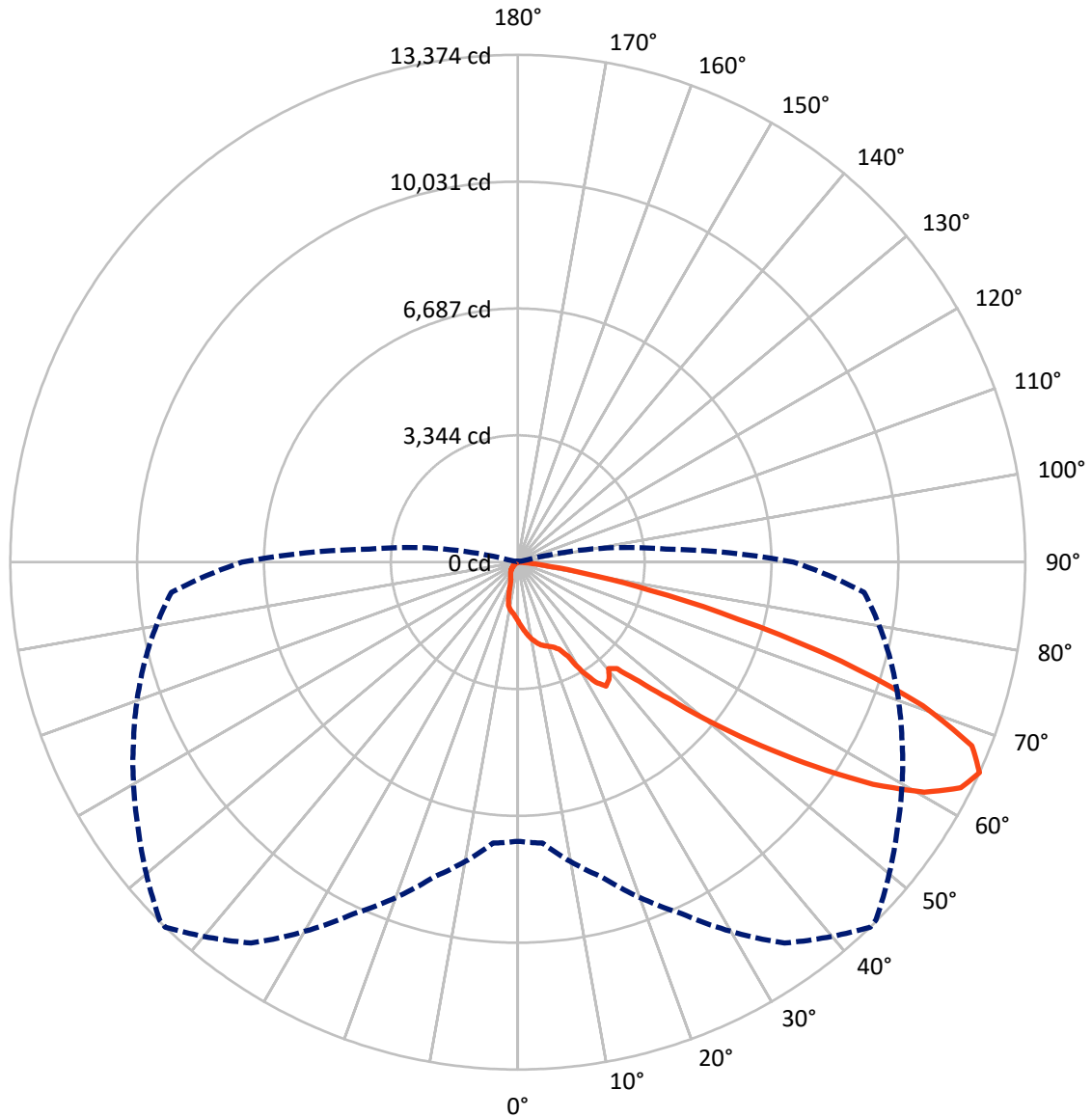
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.2	0.0	1539.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	15166.8	0.0	15166.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	16706.0	0.0	16706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	0.9
10°-20°	465.4	2.8
20°-30°	789.2	4.7
30°-40°	1312.2	7.9
40°-50°	2291.1	13.7
50°-60°	4476.0	26.8
60°-70°	5193.2	31.1
70°-80°	1891.1	11.3
80°-90°	133.2	0.8
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°	16706.0	100.0
0°-180°	16706.0	100.0

Coefficient of Utilization



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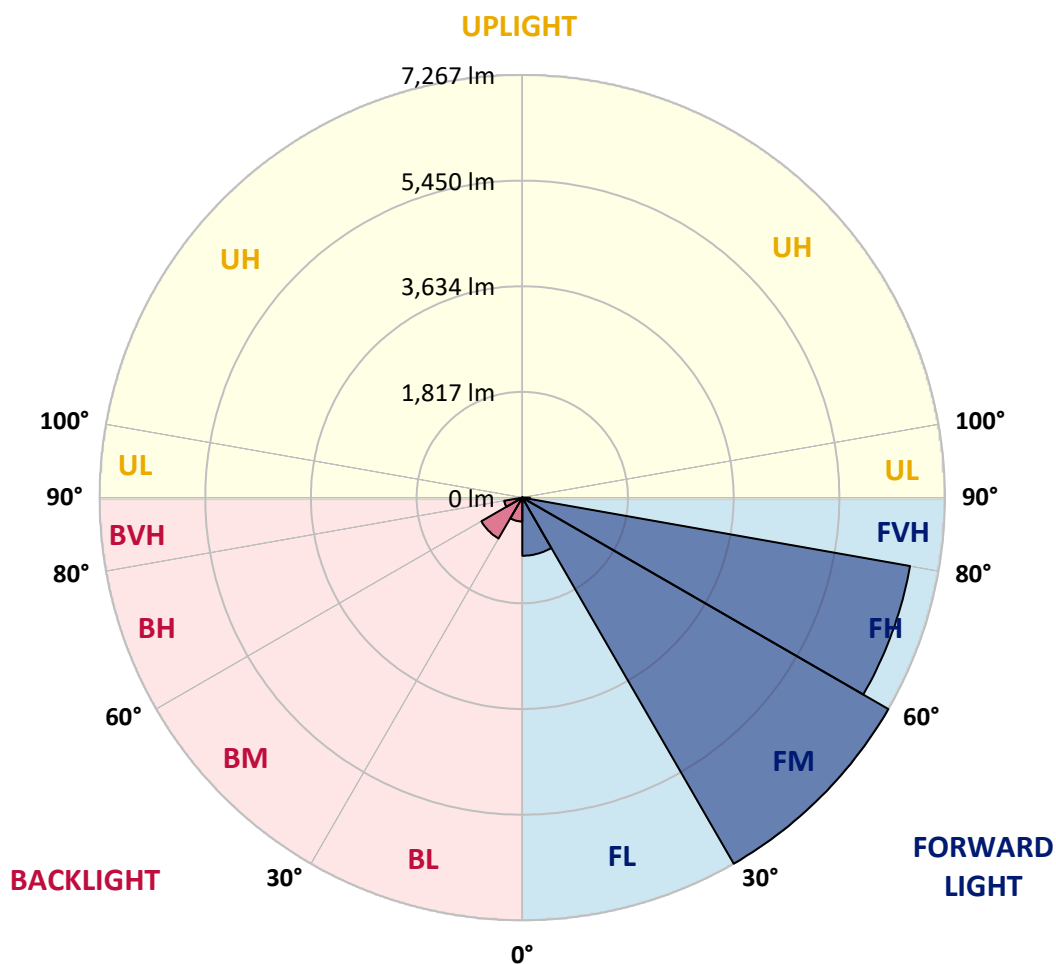
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.2	6.0			
FM (30°-60°)	7267.1	43.5			
FH (60°-80°)	6769.1	40.5			G3/7500
FVH (80°-90°)	131.4	0.8			G2/225
BL (0°-30°)	410.1	2.5	B1/500		
BM (30°-60°)	812.1	4.9	B1/1000		
BH (60°-80°)	315.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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°	44°	45°	55°	65°	75°	85°
0°	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8
2.5°	1750.1	1742.5	1738.7	1718.2	1702.9	1683.8	1683.8	1659.5	1631.4	1600.8	1572.7
5°	1945.5	1932.7	1916.1	1898.2	1862.5	1811.4	1811.4	1760.4	1701.6	1649.3	1591.9
7.5°	2133.1	2121.6	2093.5	2059.1	2000.3	1946.7	1942.9	1868.9	1798.7	1719.5	1637.8
10°	2297.8	2288.8	2264.6	2198.2	2136.9	2066.7	2065.4	1982.5	1900.8	1803.8	1702.9
12.5°	2412.7	2413.9	2382.0	2318.2	2239.1	2172.7	2167.6	2085.9	2000.3	1895.7	1771.8
15°	2494.4	2494.4	2461.2	2389.7	2318.2	2259.5	2254.4	2182.9	2094.8	1981.2	1847.2
17.5°	2517.3	2525.0	2489.3	2425.4	2368.0	2316.9	2315.7	2255.7	2185.4	2075.7	1923.8
20°	2508.4	2516.1	2488.0	2438.2	2398.6	2369.3	2365.4	2341.2	2276.1	2172.7	2005.5
22.5°	2489.3	2496.9	2476.5	2447.1	2428.0	2436.9	2430.5	2451.0	2416.5	2291.4	2102.5
25°	2493.1	2500.7	2485.4	2468.8	2485.4	2540.3	2556.9	2645.0	2614.4	2442.0	2207.1
27.5°	2613.1	2628.4	2606.7	2614.4	2673.1	2800.7	2832.7	2984.6	2849.2	2633.5	2370.5
30°	2879.9	2869.7	2828.8	2865.8	3070.1	3340.7	3331.8	3307.5	3095.6	2854.4	2564.6
32.5°	3122.4	3113.5	3110.9	3270.5	3640.7	3772.2	3765.8	3530.9	3316.5	3107.1	2756.1
35°	3220.7	3186.3	3178.6	3565.4	4184.5	4010.9	3971.3	3622.8	3584.5	3382.8	2951.4
37.5°	3516.9	3492.6	3373.9	3613.9	3967.5	3910.1	3879.4	3781.1	3870.5	3626.7	3172.2
40°	4127.1	4059.4	3952.2	3717.3	3659.9	3684.1	3714.7	3984.1	4208.8	3959.8	3467.1
42.5°	4885.3	4870.0	4670.9	4233.0	3802.8	3836.0	3875.6	4407.9	4695.1	4461.5	3948.4
45°	5795.5	5817.2	5530.0	5013.0	4448.8	4476.8	4534.3	5033.4	5353.8	5241.5	4705.3
47.5°	6622.7	6606.1	6509.1	5971.7	5450.8	5388.3	5481.5	5836.4	6265.3	6283.1	5644.9
50°	7455.0	7543.1	7398.8	7188.2	6801.4	6669.9	6635.5	6809.1	7462.7	7377.1	6773.3
52.5°	8651.1	8697.1	8426.5	8372.9	8460.9	8034.6	8000.1	8042.2	8626.9	8333.3	7618.4
55°	9403.0	9376.2	9275.4	9694.1	10042.6	9510.3	9466.8	9297.1	9593.2	9008.6	8431.6
57.5°	9640.5	9678.8	9913.6	10670.6	11495.3	11043.4	10964.2	10481.7	10290.2	9637.9	9179.6
60°	9534.5	9604.7	10111.5	11237.4	12381.2	12313.5	12245.9	11435.3	10790.6	10163.8	9704.3
62.5°	8780.1	8878.4	9689.0	11136.6	12681.2	13103.7	13019.5	12030.1	11123.8	10419.2	9796.2
65°	7358.0	7430.8	8595.0	10221.3	12254.8	13374.3	13343.7	12216.5	11176.1	10185.5	9166.9
67.5°	5245.3	5493.0	6571.6	8614.1	10993.6	12912.2	12964.6	11993.1	10684.7	9175.8	7591.6
70°	3297.3	3465.8	4239.4	6167.0	8813.3	11328.0	11500.4	10970.6	9272.8	7152.5	5081.9
72.5°	1572.7	1697.8	2249.3	3903.7	6220.6	8912.8	9049.4	9006.0	7170.3	4506.2	2622.0
75°	700.8	748.1	1073.6	1992.7	4016.0	5990.8	6344.4	6403.1	4480.7	2204.6	1020.0
77.5°	357.4	358.7	503.0	965.1	2005.5	3574.3	3644.5	3850.1	2429.3	971.4	354.9
80°	190.2	203.0	266.8	455.7	1040.4	1760.4	1751.4	1925.0	1077.4	476.2	118.7
82.5°	85.5	94.5	150.6	238.7	508.1	667.6	720.0	787.6	462.1	303.8	52.3
85°	25.5	30.6	74.0	120.0	183.8	192.8	215.7	278.3	261.7	215.7	26.8
87.5°	3.8	3.8	30.6	33.2	26.8	34.5	35.7	39.6	84.3	79.1	14.0
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°	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8	1554.8
2.5°	1557.4	1548.4	1516.5	1489.7	1466.7	1452.7	1436.1	1425.9	1420.8	1417.0	1418.2
5°	1563.8	1542.1	1487.2	1443.8	1410.6	1374.8	1350.6	1336.5	1330.2	1319.9	1319.9
7.5°	1599.5	1565.0	1488.5	1422.1	1364.6	1316.1	1270.2	1253.6	1242.1	1239.5	1237.0
10°	1650.6	1607.2	1502.5	1410.6	1328.9	1262.5	1197.4	1140.0	1095.3	1068.5	1064.6
12.5°	1714.4	1651.8	1524.2	1402.9	1298.2	1180.8	1008.5	892.3	814.4	790.2	794.0
15°	1773.1	1705.5	1545.9	1396.5	1242.1	979.1	783.8	651.0	611.5	607.6	608.9
17.5°	1843.3	1762.9	1571.4	1387.6	1087.6	748.1	582.1	546.4	554.0	566.8	565.5
20°	1916.1	1824.2	1602.1	1334.0	868.0	563.0	514.4	518.3	529.8	541.3	543.8
22.5°	1994.0	1894.4	1637.8	1205.1	662.5	490.2	487.6	492.7	504.2	517.0	519.6
25°	2101.2	1982.5	1664.6	1036.6	501.7	453.2	458.3	467.2	477.4	491.5	494.0
27.5°	2239.1	2101.2	1678.7	817.0	434.0	420.0	421.3	434.0	446.8	459.6	459.6
30°	2417.8	2242.9	1650.6	617.8	400.8	388.1	383.0	390.6	407.2	420.0	421.3
32.5°	2577.3	2376.9	1576.5	472.3	376.6	358.7	345.9	347.2	353.6	361.3	362.5
35°	2736.9	2507.1	1450.2	397.0	351.0	330.6	311.5	301.3	296.2	292.3	296.2
37.5°	2941.2	2669.3	1281.7	361.3	329.3	303.8	277.0	255.3	237.4	225.9	228.5
40°	3204.1	2893.9	1082.5	338.3	308.9	278.3	242.5	214.5	183.8	173.6	168.5
42.5°	3638.1	3234.8	873.2	319.1	288.5	251.5	206.8	168.5	140.4	130.2	132.8
45°	4323.7	3665.0	672.7	298.7	268.1	222.1	173.6	132.8	109.8	104.7	107.2
47.5°	5232.6	4221.5	518.3	275.7	242.5	190.2	136.6	104.7	90.6	89.4	88.1
50°	6087.8	4739.8	432.7	250.2	211.9	158.3	112.3	88.1	79.1	77.9	77.9
52.5°	6861.4	5111.3	352.3	220.8	178.7	130.2	94.5	77.9	70.2	66.4	66.4
55°	7549.5	5353.8	285.9	185.1	140.4	103.4	81.7	70.2	61.3	56.2	54.9
57.5°	8069.0	5383.2	214.5	148.1	104.7	80.4	70.2	61.3	51.1	44.7	42.1
60°	8291.2	5129.2	158.3	112.3	77.9	63.8	56.2	49.8	38.3	31.9	30.6
62.5°	8067.8	4635.1	117.4	85.5	60.0	47.2	39.6	37.0	26.8	19.1	17.9
65°	7267.4	3921.5	93.2	65.1	44.7	34.5	25.5	24.3	16.6	8.9	7.7
67.5°	5822.3	3071.4	74.0	48.5	31.9	23.0	16.6	15.3	8.9	2.6	2.6
70°	3786.2	1963.3	60.0	35.7	20.4	15.3	10.2	7.7	5.1	1.3	0.0
72.5°	1872.7	917.8	48.5	28.1	14.0	7.7	3.8	2.6	3.8	0.0	0.0
75°	726.4	326.8	35.7	19.1	7.7	3.8	2.6	0.0	1.3	0.0	0.0
77.5°	241.3	108.5	21.7	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	89.4	42.1	11.5	6.4	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	35.7	16.6	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	10.2	5.1	3.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	7.7	5.1	3.8	2.6	1.3	0.0	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)