

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: P526615

Luminaire Tested: **GALN-SA1C-750-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-750-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

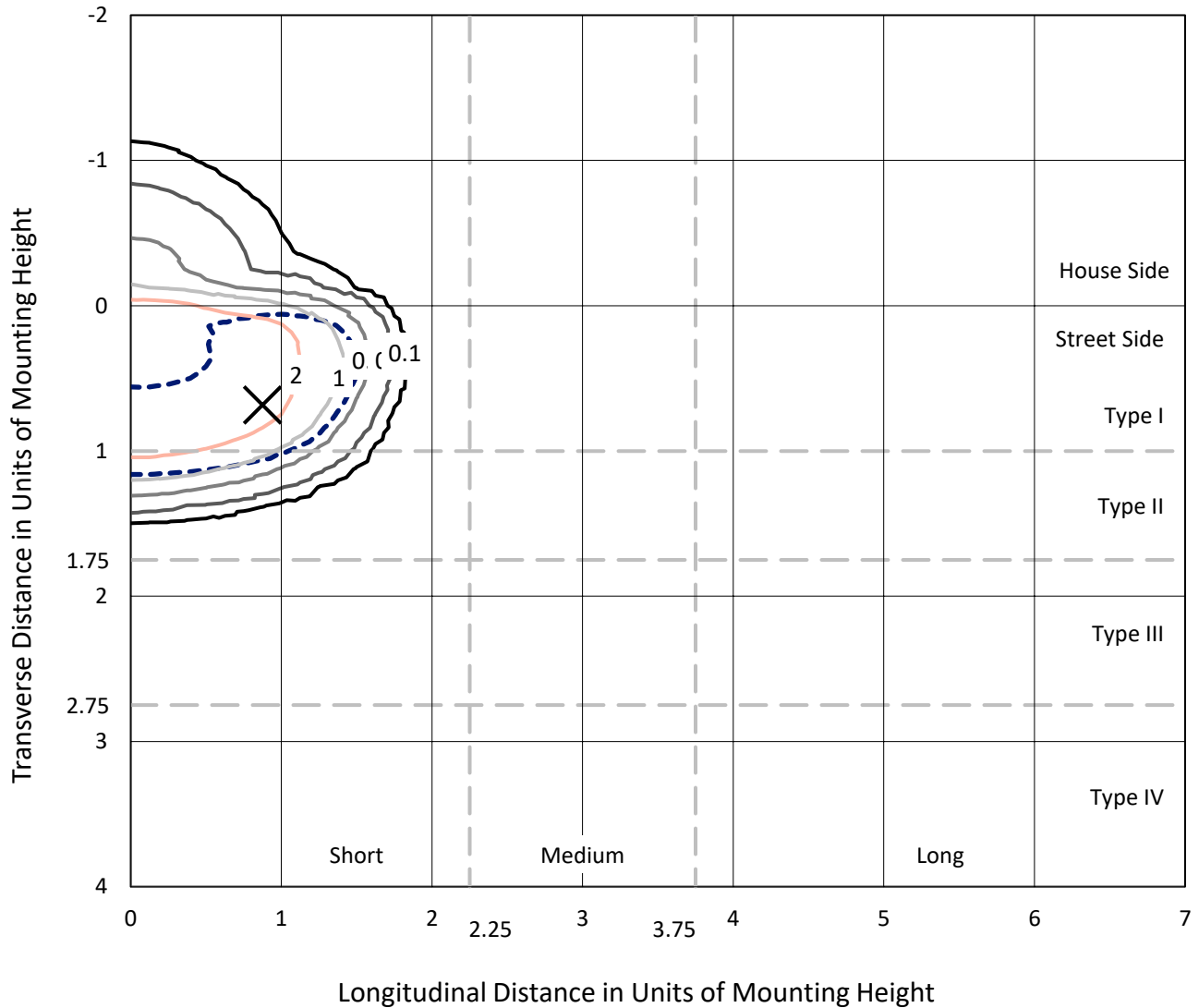
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

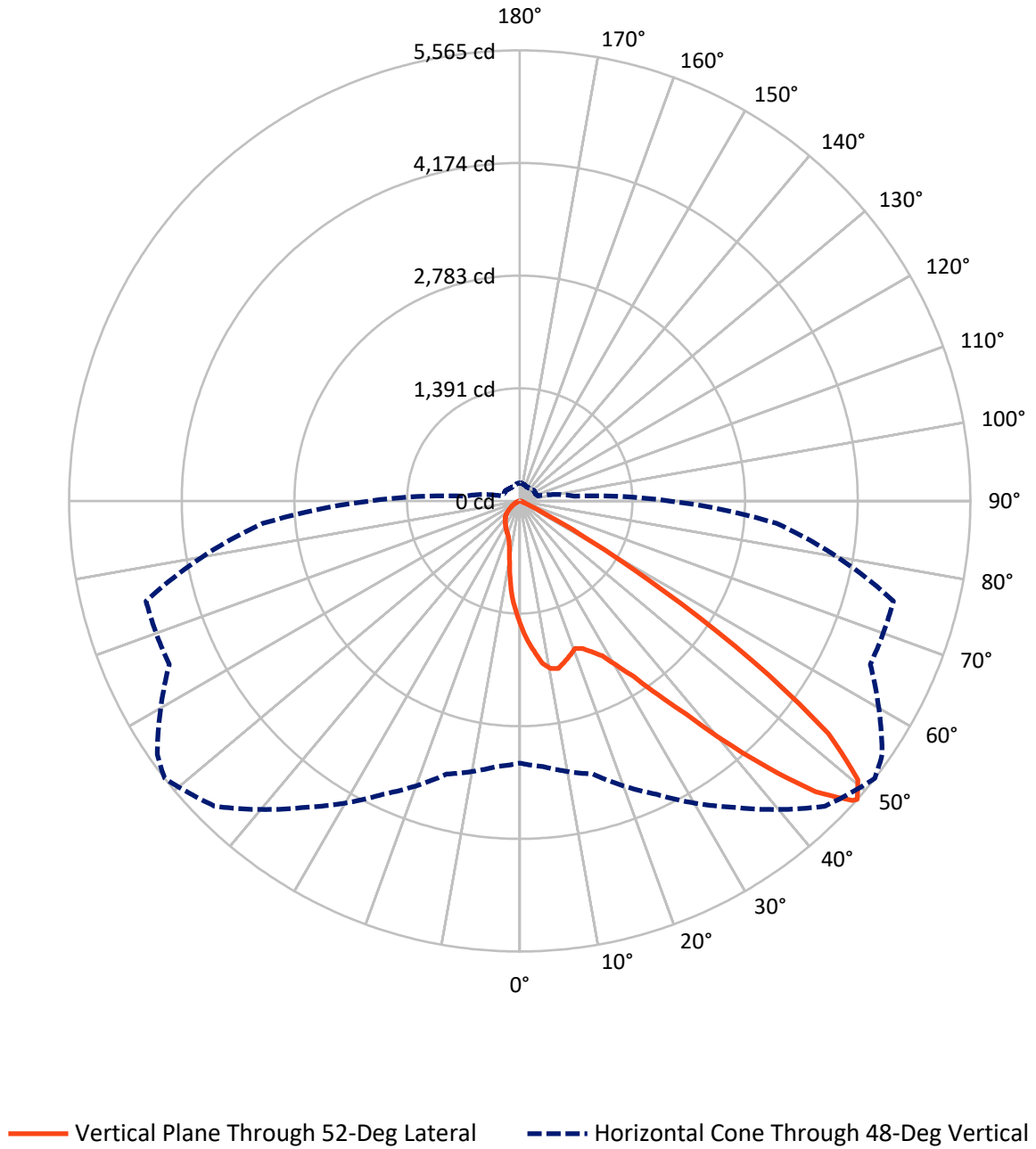
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.0	0.0	646.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4659.9	0.0	4659.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	5306.0	0.0	5306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	2.6
10°-20°	366.5	6.9
20°-30°	625.8	11.8
30°-40°	1152.4	21.7
40°-50°	1789.7	33.7
50°-60°	1077.1	20.3
60°-70°	124.6	2.3
70°-80°	24.1	0.5
80°-90°	5.6	0.1
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°	5306.0	100.0
0°-180°	5306.0	100.0

Coefficient of Utilization

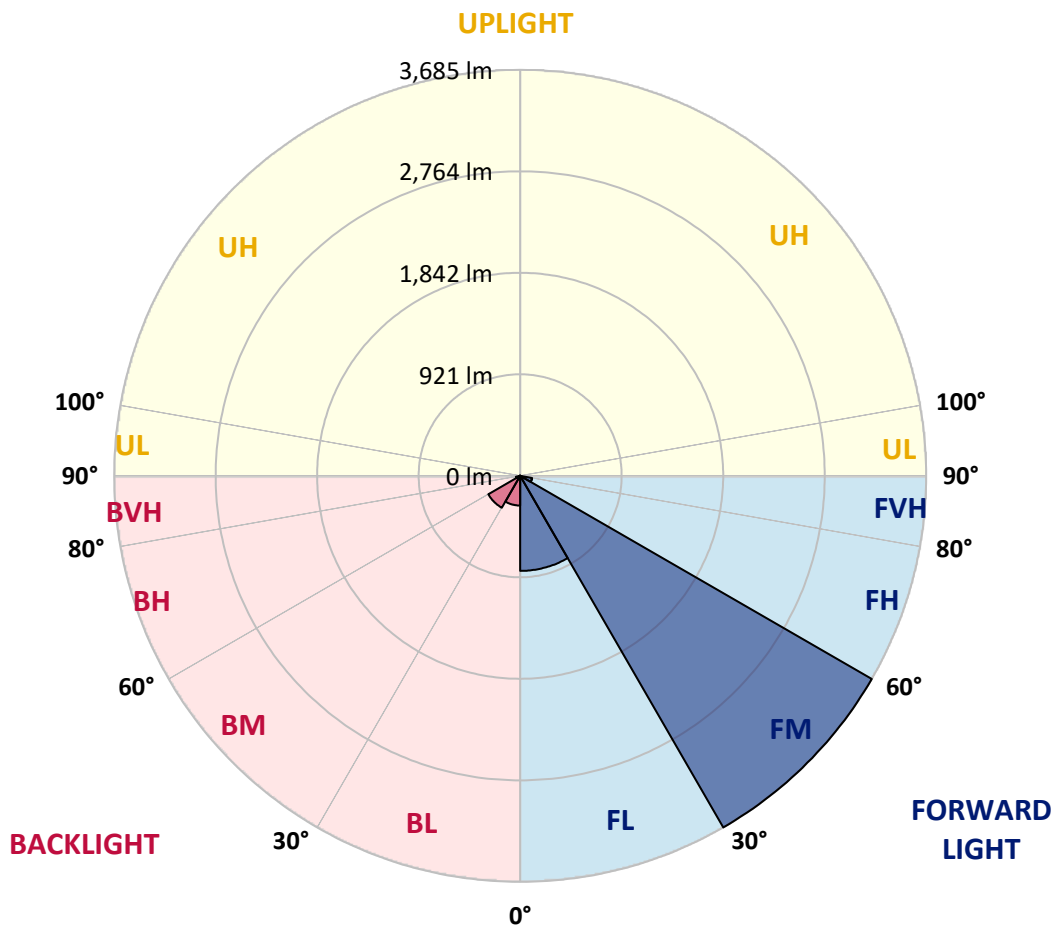


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.7	16.3			
FM (30°-60°)	3684.9	69.4			
FH (60°-80°)	109.7	2.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	269.9	5.1	B1/500		
BM (30°-60°)	334.3	6.3	B1/1000		
BH (60°-80°)	39.0	0.7	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1857.2	1814.6	1818.5	1790.6	1774.4	1748.1	1712.5	1705.5	1666.9	1614.3	1560.9
5°	2024.2	2014.2	2027.3	1987.1	1988.6	1945.3	1861.8	1863.3	1774.4	1688.5	1605.8
7.5°	2035.1	2011.8	2025.0	2060.6	2081.5	2073.7	2026.5	1985.6	1901.2	1775.2	1654.5
10°	1822.3	1866.4	1880.4	1939.1	2022.7	2110.9	2105.4	2107.8	2037.4	1872.6	1696.3
12.5°	1694.7	1665.3	1712.5	1748.1	1874.2	2045.1	2123.2	2140.2	2145.7	1967.0	1738.0
15°	1636.7	1636.7	1644.4	1654.5	1745.8	1903.6	2062.9	2112.4	2229.2	2090.7	1803.8
17.5°	1673.1	1671.5	1682.3	1661.5	1695.5	1816.9	2007.2	2063.7	2322.8	2212.2	1855.6
20°	1783.7	1789.1	1782.1	1721.8	1724.1	1815.4	1945.3	2034.3	2386.2	2317.4	1924.4
22.5°	1937.6	1940.7	1901.2	1835.5	1816.2	1861.0	1980.9	2049.0	2437.3	2443.5	1945.3
25°	2115.5	2103.1	2095.4	2002.6	1943.8	1982.5	2061.4	2100.8	2469.0	2551.7	2004.9
27.5°	2362.2	2337.5	2290.3	2207.5	2164.2	2109.3	2165.8	2230.7	2559.5	2703.3	2069.9
30°	2726.6	2704.9	2612.9	2506.1	2392.4	2338.3	2356.1	2391.6	2722.7	2878.9	2155.7
32.5°	3275.0	3229.3	3096.3	2892.9	2738.2	2588.9	2584.2	2622.1	2868.9	3121.8	2257.8
35°	3879.1	3865.1	3669.4	3459.8	3160.5	2930.0	2933.8	2954.0	3148.9	3440.5	2391.6
37.5°	4280.5	4357.1	4232.5	4007.5	3756.1	3426.6	3343.0	3350.0	3533.3	3817.9	2633.0
40°	4590.7	4525.7	4540.4	4487.8	4316.1	4091.8	3906.9	3870.5	3978.1	4235.6	2872.7
42.5°	4455.3	4458.4	4548.9	4673.4	4716.0	4699.7	4511.0	4442.2	4358.6	4577.5	3100.9
45°	4073.2	4152.9	4270.4	4599.9	4889.2	5160.7	5123.6	5009.1	4621.6	4848.2	3232.4
47.5°	3463.7	3460.6	3653.2	4081.7	4724.5	5360.3	5528.9	5448.5	4808.0	4818.1	3205.3
48°	3238.6	3294.3	3493.1	3997.4	4620.1	5330.9	5565.3	5463.9	4776.3	4777.9	3182.1
50°	2394.0	2383.9	2631.4	3250.2	4126.6	5009.1	5412.1	5491.0	4775.5	4574.4	3019.7
52.5°	1264.7	1308.0	1488.2	2043.6	2917.6	4099.5	4774.0	4897.0	4606.9	4241.8	2786.1
55°	537.6	485.8	624.2	922.8	1641.3	2738.9	3502.4	3776.2	3895.3	3753.7	2437.3
57.5°	191.8	209.6	241.3	347.3	690.0	1499.0	2088.4	2301.1	2698.7	2754.4	1660.7
60°	123.0	125.3	135.4	159.3	259.1	577.8	990.8	1160.2	1340.5	1383.8	775.0
62.5°	95.1	95.9	100.6	104.4	123.0	224.3	372.0	440.9	457.9	393.7	203.4
65°	79.7	80.4	82.0	82.0	87.4	105.2	129.9	143.1	139.2	137.7	115.3
67.5°	61.1	62.7	65.7	65.7	68.8	64.2	71.9	76.6	86.6	105.2	98.2
70°	48.0	48.7	51.1	52.6	52.6	46.4	51.8	56.5	63.4	78.1	77.3
72.5°	37.1	38.7	40.2	40.2	37.9	31.7	37.1	41.0	45.6	54.1	52.6
75°	28.6	28.6	29.4	24.0	18.6	16.2	22.4	27.1	34.0	35.6	29.4
77.5°	7.7	8.5	7.7	7.0	7.7	11.6	14.7	17.0	21.7	21.7	19.3
80°	0.0	0.8	2.3	4.6	7.7	10.8	13.1	14.7	17.0	18.6	17.8
82.5°	0.0	0.8	2.3	4.6	7.0	8.5	11.6	12.4	13.9	16.2	16.2
85°	0.0	0.8	1.5	3.1	4.6	5.4	5.4	4.6	4.6	3.9	3.1
87.5°	0.0	0.0	0.8	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3
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°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1540.0	1516.0	1479.7	1422.4	1367.5	1332.0	1297.9	1260.0	1239.1	1237.6	1226.0
5°	1558.6	1504.4	1417.8	1319.6	1214.4	1123.9	1032.6	973.1	919.7	890.3	884.9
7.5°	1568.6	1498.3	1358.2	1193.5	1014.0	866.3	764.2	689.2	659.8	638.1	637.4
10°	1589.5	1487.4	1269.3	1026.4	804.4	655.1	584.8	550.7	534.5	528.3	519.0
12.5°	1605.0	1467.3	1178.0	854.7	635.8	543.0	512.1	504.3	505.1	508.2	504.3
15°	1626.7	1449.5	1055.0	701.6	533.7	488.8	488.8	490.4	501.2	502.8	502.0
17.5°	1625.1	1414.7	928.2	577.8	471.8	465.6	468.0	482.7	489.6	491.9	486.5
20°	1643.7	1382.2	797.5	493.5	437.0	446.3	461.8	465.6	474.1	475.7	469.5
22.5°	1638.3	1301.0	676.0	427.0	410.7	428.5	444.0	448.6	446.3	441.7	440.9
25°	1628.2	1231.4	564.6	382.9	391.4	410.7	425.4	416.9	412.3	413.0	413.8
27.5°	1610.4	1143.2	472.6	351.9	365.1	393.7	392.9	389.8	394.5	390.6	394.5
30°	1607.3	1055.0	396.8	324.1	345.8	366.6	368.2	373.6	379.0	372.0	379.0
32.5°	1612.0	958.4	342.7	307.1	334.1	334.9	351.9	357.4	353.5	338.0	339.6
35°	1647.5	884.1	303.2	297.8	315.6	316.4	332.6	325.6	308.6	299.3	304.8
37.5°	1722.6	822.2	284.6	289.3	290.8	300.9	301.7	287.7	289.3	288.5	291.6
40°	1818.5	775.0	271.5	281.6	280.0	287.0	259.1	266.9	273.8	276.1	277.7
42.5°	1884.2	741.0	263.0	269.2	266.1	253.7	238.2	246.0	251.4	259.9	261.4
45°	1913.6	713.9	252.9	247.5	247.5	225.1	218.9	220.4	232.8	242.1	240.6
47.5°	1865.7	687.6	235.1	218.9	224.3	205.7	198.8	198.8	211.9	223.5	221.2
48°	1847.1	676.8	235.9	212.7	216.6	202.7	195.7	194.1	208.8	219.7	219.7
50°	1755.0	636.6	215.8	195.7	188.0	186.4	181.8	183.3	192.6	202.7	202.7
52.5°	1575.6	550.0	182.5	167.8	153.9	163.2	165.5	162.4	167.1	176.4	175.6
55°	1314.9	422.3	146.2	139.2	128.4	138.5	143.1	139.2	134.6	141.5	141.5
57.5°	842.3	227.4	116.8	118.3	107.5	117.6	121.4	112.2	103.6	109.1	108.3
60°	379.8	136.1	95.9	93.6	86.6	98.2	104.4	93.6	82.0	85.9	89.7
62.5°	142.3	96.7	72.7	71.2	69.6	80.4	83.5	75.0	63.4	65.7	66.5
65°	104.4	85.1	58.0	52.6	55.7	63.4	61.9	53.4	45.6	45.6	47.2
67.5°	89.0	74.3	47.2	41.0	41.0	41.8	38.7	34.0	31.7	33.3	34.8
70°	69.6	58.8	37.1	31.7	28.6	25.5	22.4	21.7	19.3	21.7	20.9
72.5°	44.9	39.4	28.6	24.0	21.7	17.8	14.7	13.9	11.6	10.8	10.8
75°	24.0	24.0	22.4	19.3	17.0	13.9	11.6	9.3	6.2	4.6	4.6
77.5°	17.0	18.6	20.1	18.6	15.5	11.6	9.3	6.2	3.1	1.5	1.5
80°	16.2	18.6	20.1	17.8	15.5	11.6	8.5	4.6	2.3	0.8	0.8
82.5°	14.7	17.0	18.6	16.2	13.9	10.1	7.7	4.6	2.3	0.8	0.8
85°	3.1	3.9	4.6	4.6	5.4	7.0	5.4	3.9	1.5	0.8	0.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8
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)