

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: P647819

Luminaire Tested: **GALN-SA3A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6239 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

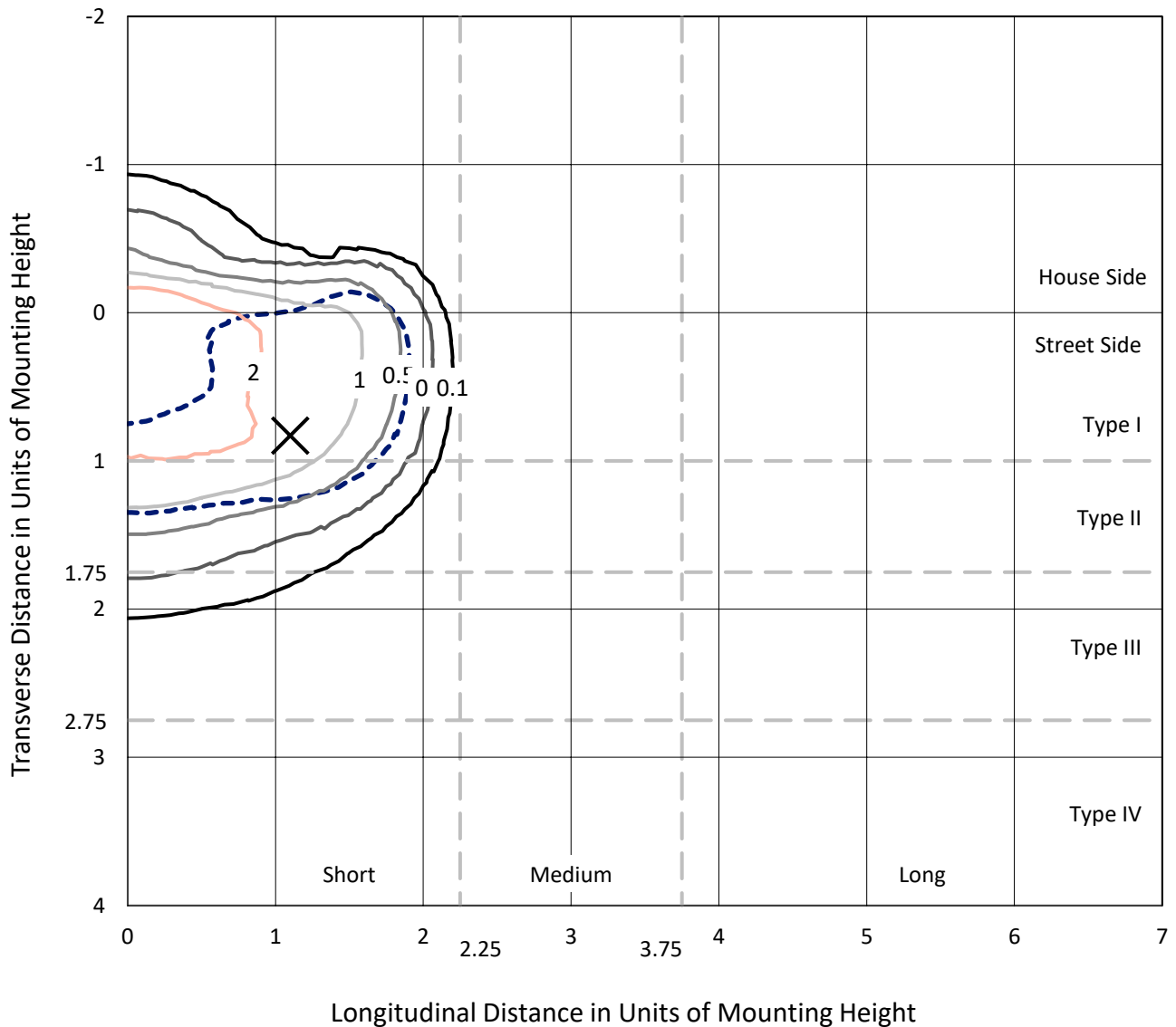
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

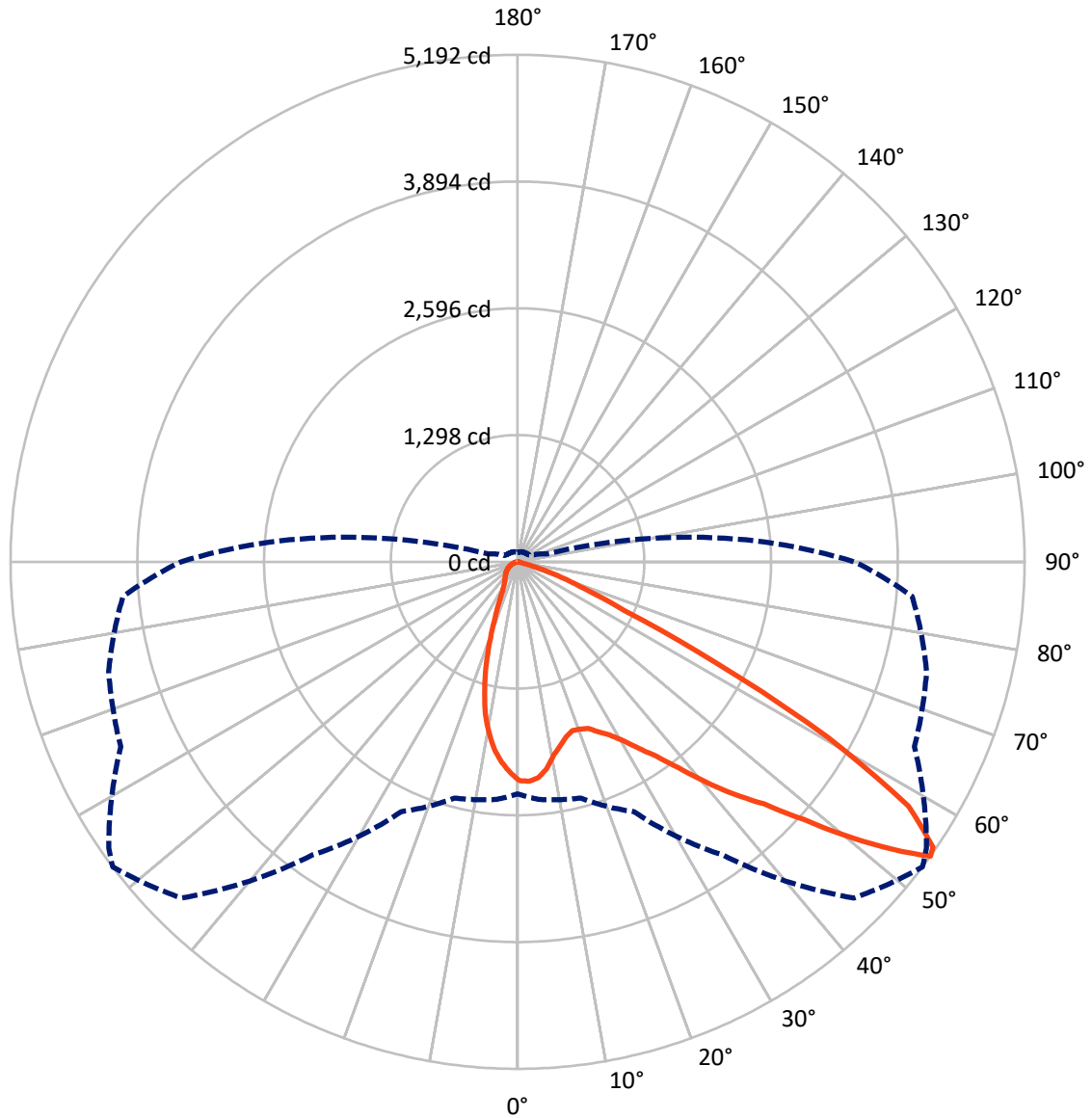
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.3	0.0	1032.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5206.7	0.0	5206.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	6239.0	0.0	6239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	3.1
10°-20°	440.8	7.1
20°-30°	626.5	10.0
30°-40°	966.8	15.5
40°-50°	1515.9	24.3
50°-60°	1760.9	28.2
60°-70°	665.4	10.7
70°-80°	63.3	1.0
80°-90°	7.1	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°	6239.0	100.0
0°-180°	6239.0	100.0

Coefficient of Utilization

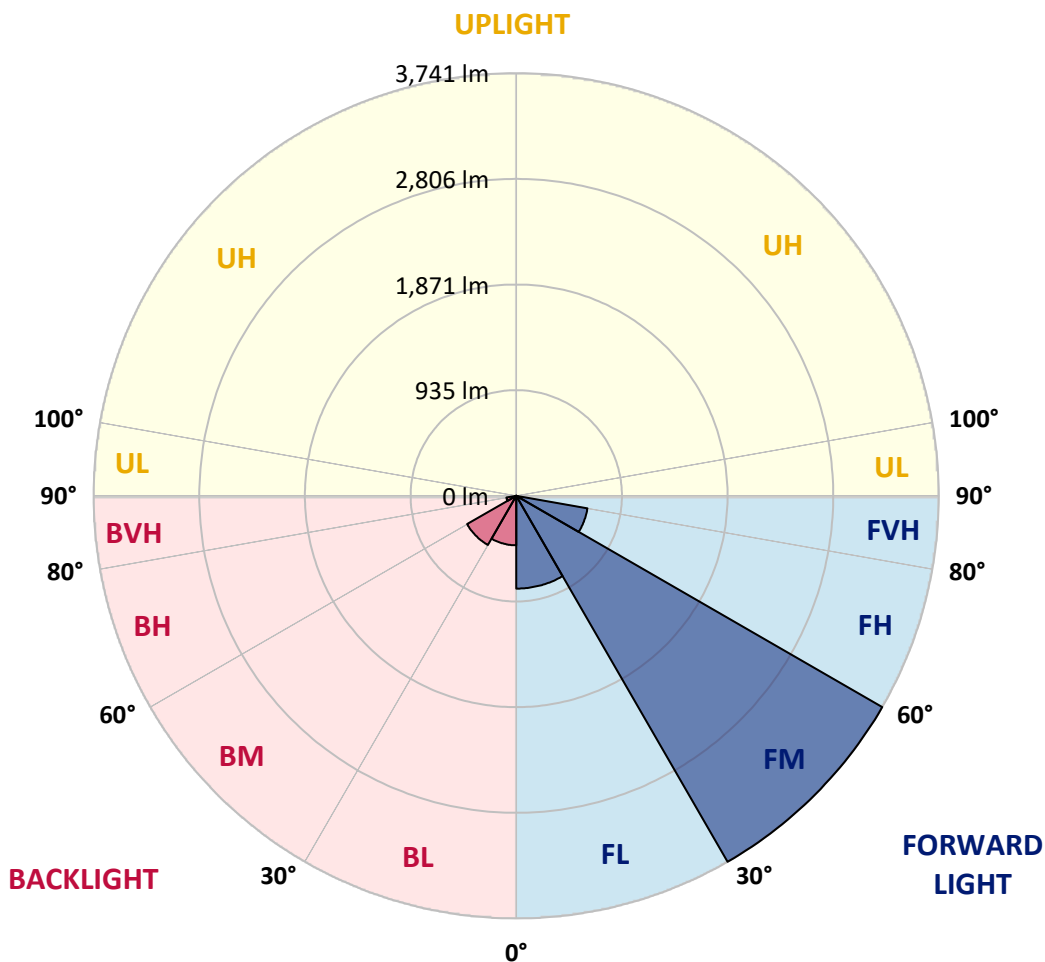


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	13.2			
FM (30°-60°)	3741.3	60.0			
FH (60°-80°)	640.2	10.3			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	438.0	7.0	B1/500		
BM (30°-60°)	502.3	8.1	B1/1000		
BH (60°-80°)	88.4	1.4	B0/110		G0/110
BVH (80°-90°)	3.4	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°	53°	55°	65°	75°	85°
0°	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9
2.5°	2229.3	2209.5	2229.3	2231.6	2245.6	2258.3	2250.2	2268.8	2258.3	2246.7	2243.2
5°	2049.1	2075.9	2077.1	2118.9	2109.6	2186.3	2220.0	2210.7	2267.6	2264.2	2256.1
7.5°	1887.6	1877.1	1891.1	1939.9	2001.5	2089.8	2138.6	2137.5	2218.9	2277.0	2271.2
10°	1737.6	1736.5	1765.5	1803.9	1856.2	1949.2	2016.6	2050.3	2177.0	2265.3	2278.1
12.5°	1636.5	1631.9	1663.2	1694.6	1777.2	1849.2	1935.3	1951.5	2096.8	2224.7	2245.6
15°	1570.3	1580.7	1583.1	1643.5	1695.8	1791.1	1858.5	1892.2	2059.6	2192.1	2272.3
17.5°	1558.6	1572.6	1573.8	1623.7	1679.5	1759.7	1819.0	1864.3	2028.2	2208.4	2273.4
20°	1581.9	1573.8	1580.7	1612.1	1666.8	1743.4	1829.5	1844.6	2017.8	2216.5	2286.3
22.5°	1648.1	1645.8	1628.4	1653.9	1692.3	1772.5	1853.9	1877.1	2048.0	2258.3	2296.7
25°	1721.3	1734.2	1717.9	1714.4	1741.2	1820.2	1928.3	1958.5	2149.1	2333.9	2329.3
27.5°	1858.5	1845.8	1845.8	1829.5	1822.5	1860.9	2008.5	2058.4	2261.9	2431.5	2366.5
30°	1989.8	2003.8	1993.4	1999.2	1952.6	1949.2	2122.4	2183.9	2461.8	2580.3	2445.5
32.5°	2197.9	2179.3	2196.8	2181.7	2120.1	2057.3	2277.0	2340.9	2703.5	2751.1	2564.0
35°	2371.1	2362.9	2437.3	2435.1	2335.1	2273.4	2440.8	2536.1	2872.0	2955.7	2703.5
37.5°	2617.5	2602.4	2687.3	2727.9	2638.4	2546.6	2675.6	2786.1	3029.0	3119.6	2846.5
40°	2870.9	2909.2	3023.2	3090.6	2995.3	2873.2	2962.7	2996.4	3133.6	3226.6	2944.1
42.5°	3191.7	3247.5	3363.7	3421.8	3413.7	3281.2	3254.5	3253.3	3209.1	3196.4	3016.2
45°	3499.7	3478.8	3657.8	3784.5	3886.7	3848.4	3535.7	3500.9	3328.8	3241.7	3034.8
47.5°	3634.5	3627.6	3749.6	3975.1	4323.8	4371.4	3944.8	3810.0	3531.1	3432.3	3135.9
50°	3460.2	3496.3	3617.1	3867.0	4401.6	4765.4	4447.0	4265.6	3767.0	3664.8	3375.4
52.5°	2890.7	2915.0	3030.1	3347.4	4136.7	4997.9	4928.2	4823.6	4200.6	4030.9	3792.6
54°	2376.9	2442.0	2504.7	2823.3	3664.8	4868.9	5192.0	5111.8	4483.0	4335.4	4055.3
55°	2070.1	2108.4	2153.7	2471.1	3338.2	4650.4	5161.8	5168.7	4672.5	4430.7	4232.0
57.5°	1512.1	1538.9	1492.4	1633.0	2292.1	3776.3	4721.3	4909.6	4928.2	4573.7	4340.0
60°	1155.3	1167.0	1114.7	1136.8	1425.0	2592.0	3652.0	3878.6	4445.8	3997.1	3676.3
62.5°	896.1	898.5	897.3	935.7	982.1	1525.0	2283.9	2485.0	3065.0	2838.4	2496.6
65°	660.2	649.7	668.3	784.6	838.0	958.9	1203.0	1349.4	1665.6	1406.4	1005.4
67.5°	427.8	431.2	449.8	583.5	718.3	735.7	740.4	728.7	729.9	402.1	252.2
70°	256.9	262.7	256.9	330.1	513.7	527.7	482.3	470.7	367.3	95.3	94.1
72.5°	152.3	144.2	129.0	141.8	213.8	255.7	230.1	228.9	144.2	55.8	55.8
75°	63.9	58.1	47.7	43.0	56.9	54.7	54.7	48.8	38.4	37.2	34.8
77.5°	12.8	12.8	9.3	10.5	13.9	16.3	19.7	19.7	23.3	23.3	22.1
80°	0.0	1.2	3.5	7.0	10.5	15.1	17.5	17.5	19.7	19.7	16.3
82.5°	0.0	1.2	3.5	7.0	9.3	13.9	17.5	17.5	19.7	20.9	17.5
85°	0.0	1.2	3.5	5.8	9.3	11.6	11.6	10.5	8.1	7.0	4.6
87.5°	0.0	0.0	1.2	2.3	1.2	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°	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9	2240.9
2.5°	2251.4	2250.2	2222.3	2177.0	2166.6	2128.2	2123.5	2100.3	2113.1	2070.1	2065.4
5°	2232.8	2218.9	2185.1	2156.1	2071.2	2010.8	1963.1	1905.0	1871.3	1877.1	1855.0
7.5°	2259.5	2223.5	2164.2	2063.1	1959.6	1853.9	1796.9	1678.4	1635.4	1571.4	1562.2
10°	2231.6	2204.9	2113.1	1945.7	1802.7	1650.5	1516.8	1385.4	1285.5	1242.5	1233.2
12.5°	2229.3	2182.8	2029.4	1843.4	1636.5	1418.0	1223.9	1060.0	961.2	905.5	892.6
15°	2193.3	2137.5	1935.3	1685.3	1399.4	1127.4	915.9	757.8	682.3	649.7	659.1
17.5°	2196.8	2113.1	1841.1	1518.0	1165.8	827.6	625.3	544.0	524.2	532.4	532.4
20°	2193.3	2058.4	1727.2	1325.0	892.6	574.2	459.1	430.0	442.9	468.4	462.6
22.5°	2174.7	2032.9	1622.6	1121.6	656.7	425.4	368.5	369.6	389.4	420.8	427.8
25°	2188.6	1975.9	1490.0	915.9	478.9	339.4	319.6	327.8	348.7	371.9	376.6
27.5°	2178.1	1935.3	1351.8	711.4	349.8	291.7	290.6	299.9	309.2	326.6	326.6
30°	2189.8	1898.1	1215.8	528.8	288.2	267.3	262.7	269.7	279.0	282.4	281.3
32.5°	2232.8	1870.1	1058.9	395.2	254.6	244.1	244.1	244.1	242.9	247.6	248.8
35°	2326.9	1874.8	920.6	305.7	232.5	224.3	220.8	216.2	213.8	216.2	217.4
37.5°	2429.2	1872.5	777.6	260.3	216.2	209.2	201.1	194.1	192.9	195.3	191.8
40°	2474.5	1894.5	645.1	233.6	201.1	192.9	180.2	174.4	175.5	177.8	175.5
42.5°	2536.1	1901.5	559.1	212.7	187.1	174.4	166.2	159.3	158.1	161.5	160.4
45°	2535.0	1862.0	468.4	201.1	174.4	160.4	149.9	144.2	144.2	146.4	147.6
47.5°	2609.3	1856.2	402.1	190.6	165.1	151.1	138.3	133.7	132.5	132.5	130.2
50°	2782.5	1937.5	351.0	179.0	153.4	140.6	130.2	124.3	119.7	117.4	116.2
52.5°	3120.8	2190.9	311.5	165.1	140.6	130.2	120.9	116.2	110.4	104.6	103.4
54°	3448.6	2452.4	309.2	153.4	130.2	123.2	115.1	112.8	105.8	97.6	95.3
55°	3596.2	2604.7	317.3	144.2	123.2	118.5	111.6	109.2	102.3	93.0	91.8
57.5°	3718.2	2664.0	312.7	119.7	111.6	110.4	104.6	101.1	93.0	80.2	77.9
60°	2992.9	2014.3	224.3	105.8	102.3	100.0	95.3	93.0	82.5	68.6	67.4
62.5°	1891.1	1158.8	143.0	93.0	89.5	86.0	80.2	77.9	68.6	54.7	51.1
65°	805.5	480.1	96.5	82.5	76.7	70.9	66.2	62.8	54.7	40.7	39.5
67.5°	209.2	170.9	80.2	72.0	63.9	55.8	52.3	46.5	37.2	27.9	26.7
70°	94.1	86.0	67.4	60.4	51.1	43.0	38.4	32.6	24.4	18.6	17.5
72.5°	55.8	54.7	51.1	45.3	38.4	32.6	27.9	22.1	16.3	10.5	10.5
75°	34.8	33.7	34.8	31.4	26.7	24.4	20.9	15.1	9.3	4.6	4.6
77.5°	20.9	20.9	20.9	19.7	18.6	18.6	15.1	9.3	4.6	1.2	1.2
80°	16.3	16.3	17.5	16.3	16.3	16.3	12.8	7.0	2.3	0.0	0.0
82.5°	16.3	17.5	19.7	18.6	16.3	13.9	11.6	7.0	2.3	0.0	0.0
85°	4.6	3.5	5.8	8.1	11.6	10.5	8.1	5.8	2.3	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2	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)