

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: P527166

Luminaire Tested: **GALN-SA2A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6194 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

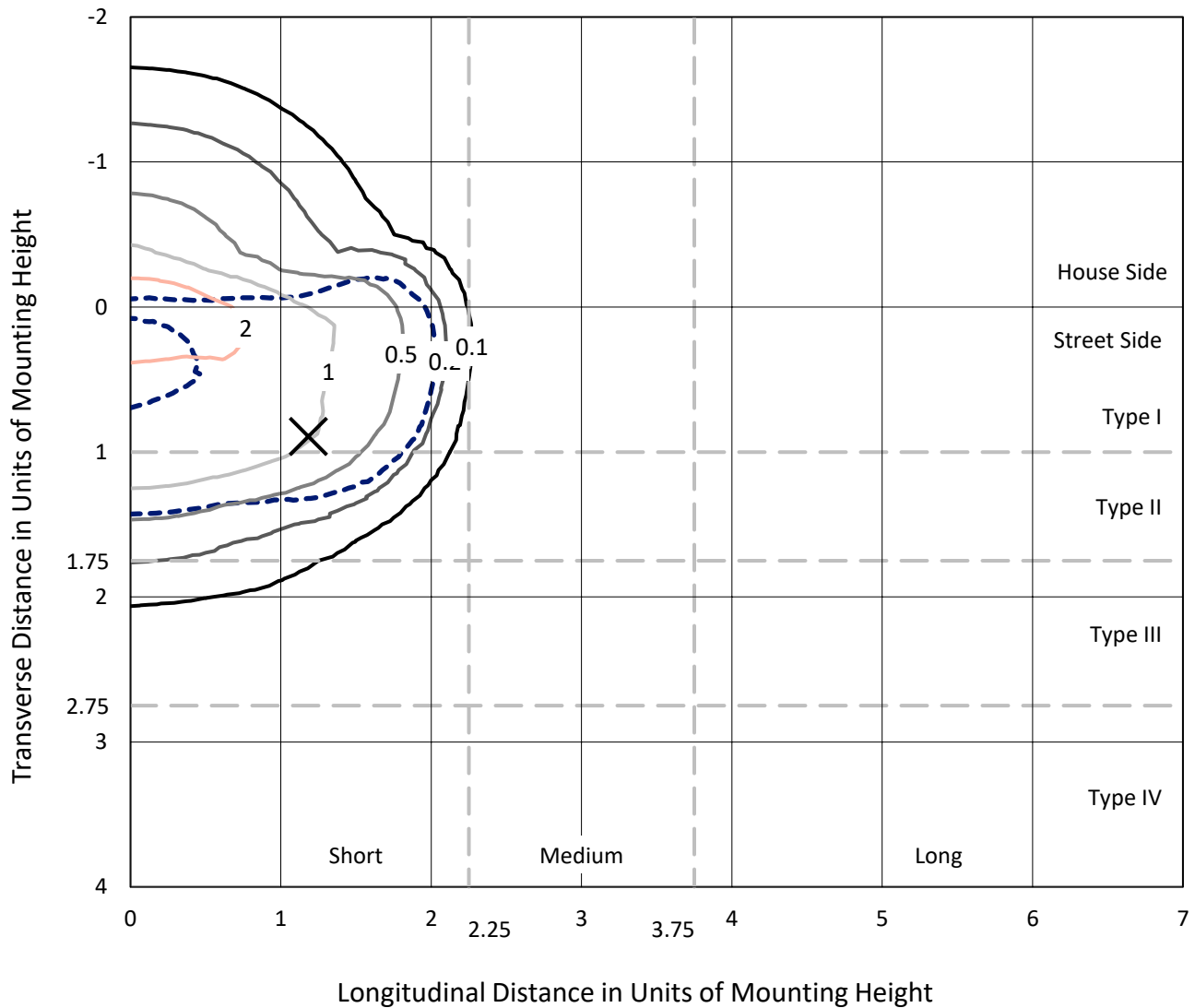
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

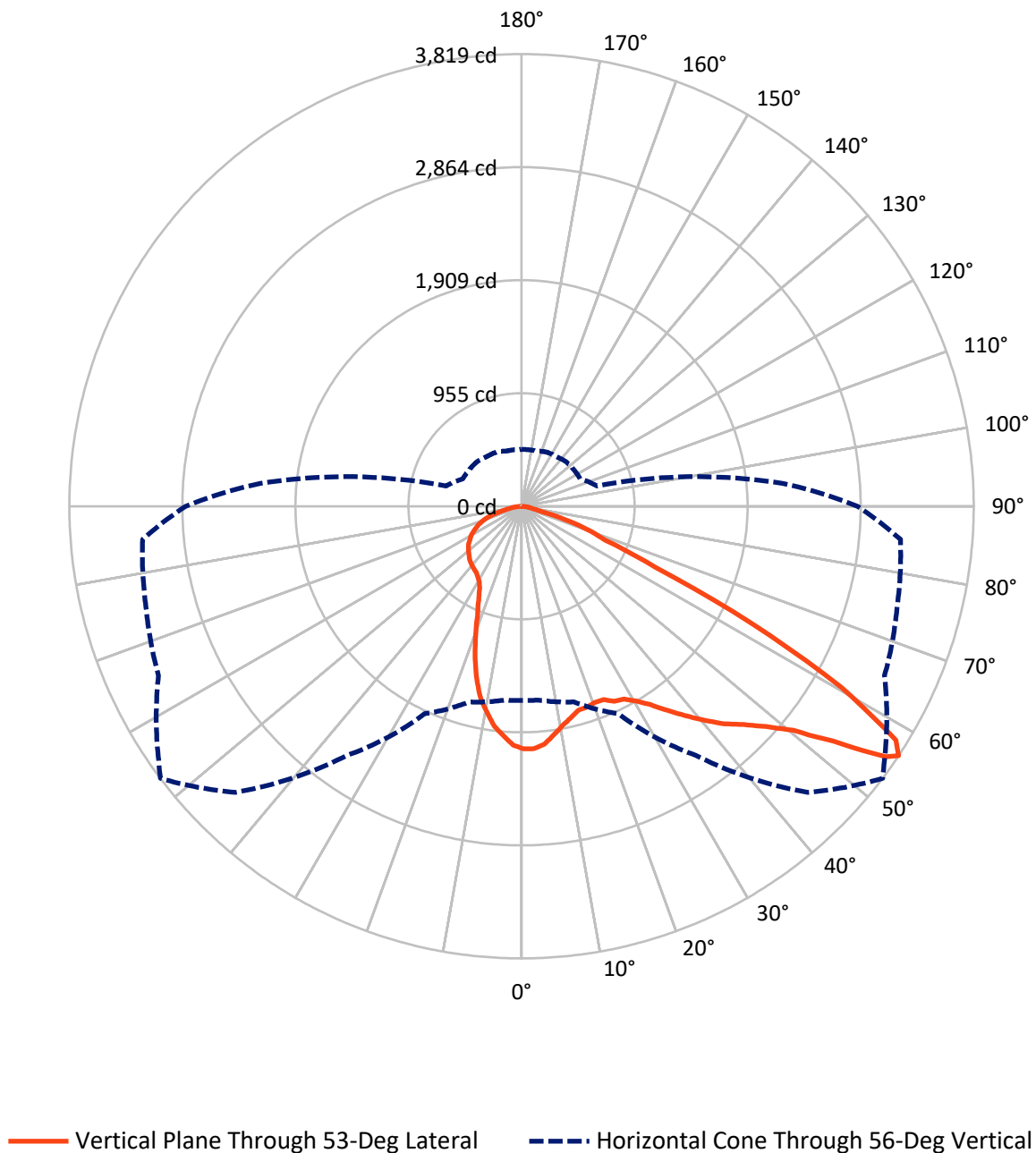


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1807.5	0.0	1807.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4386.5	0.0	4386.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	6194.0	0.0	6194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	2.9
10°-20°	453.1	7.3
20°-30°	668.1	10.8
30°-40°	954.6	15.4
40°-50°	1313.9	21.2
50°-60°	1552.7	25.1
60°-70°	827.5	13.4
70°-80°	209.9	3.4
80°-90°	32.7	0.5
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°	6194.0	100.0
0°-180°	6194.0	100.0

Coefficient of Utilization



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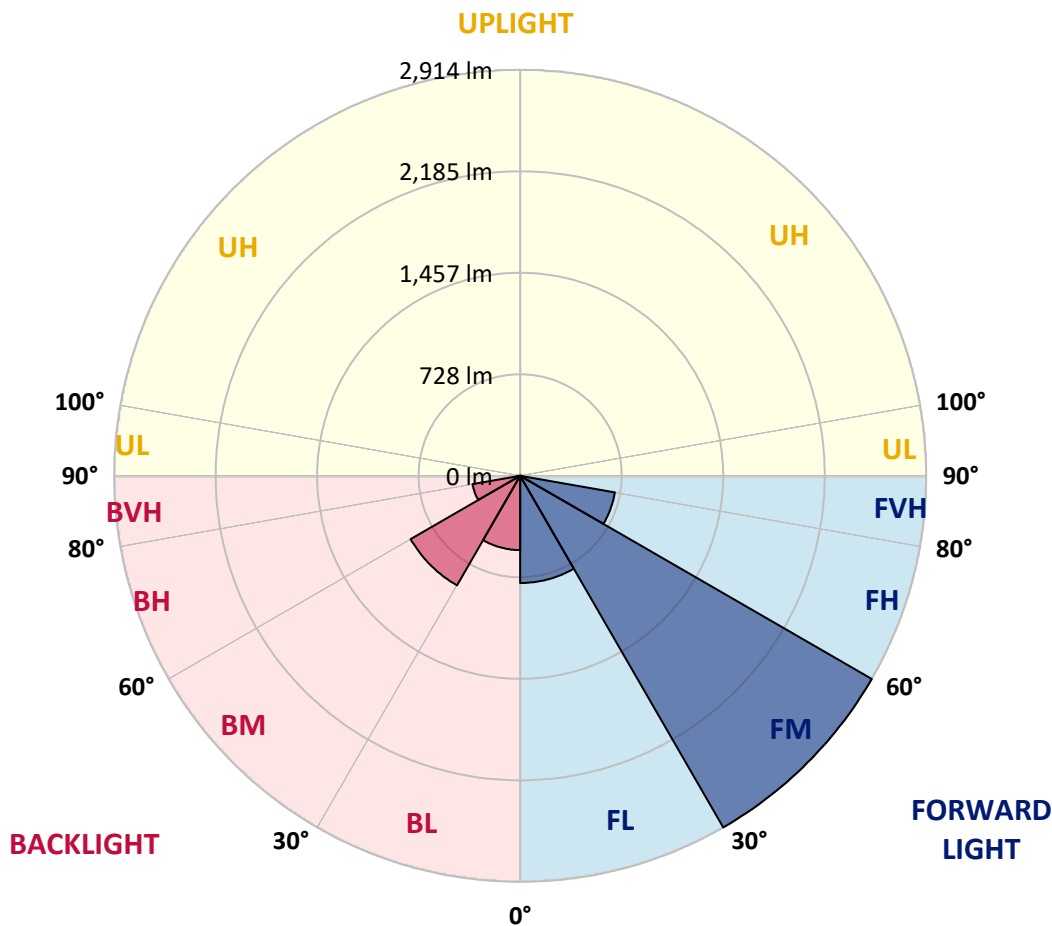
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.5	12.4			
FM	(30°-60°)	2913.5	47.0			
FH	(60°-80°)	690.2	11.1			G1/1800
FVH	(80°-90°)	13.2	0.2			G1/100
BL	(0°-30°)	533.1	8.6	B2/1000		
BM	(30°-60°)	907.7	14.7	B1/1000		
BH	(60°-80°)	347.2	5.6	B1/500		G1/500
BVH	(80°-90°)	19.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2
2.5°	2023.8	2006.3	2016.6	2012.7	2045.2	2054.8	2050.0	2054.0	2072.3	2063.5	2045.2
5°	1891.1	1915.7	1920.5	1932.4	1951.5	1988.8	2018.2	2026.2	2034.9	2075.4	2071.5
7.5°	1770.3	1787.0	1778.3	1813.2	1854.5	1914.9	1950.7	1957.0	2037.3	2059.5	2076.2
10°	1694.0	1677.4	1717.1	1726.6	1773.5	1842.6	1885.5	1911.8	1984.9	2073.1	2083.4
12.5°	1623.3	1617.8	1641.6	1668.6	1721.1	1792.6	1836.3	1846.6	1959.4	2052.4	2100.9
15°	1570.9	1564.5	1588.4	1608.2	1669.4	1733.0	1788.6	1818.0	1931.6	2040.5	2085.8
17.5°	1529.6	1528.8	1542.3	1578.0	1640.8	1694.0	1783.8	1785.4	1917.3	2058.8	2098.5
20°	1527.2	1526.4	1528.8	1568.5	1625.7	1690.9	1768.7	1783.0	1917.3	2046.0	2099.3
22.5°	1547.0	1534.3	1548.6	1574.1	1615.4	1696.4	1774.3	1806.1	1963.4	2108.8	2135.0
25°	1578.8	1582.0	1590.0	1598.7	1622.5	1709.1	1823.6	1849.8	2017.4	2162.8	2184.3
27.5°	1636.8	1635.2	1638.4	1643.2	1663.8	1721.1	1843.4	1911.0	2130.3	2259.0	2237.5
30°	1721.9	1716.3	1729.0	1745.7	1726.6	1759.2	1909.4	1960.2	2235.2	2355.9	2297.1
32.5°	1798.9	1819.6	1843.4	1850.6	1827.5	1833.9	1996.8	2048.4	2322.6	2475.1	2370.2
35°	1895.1	1911.8	1943.5	1965.8	1961.8	1942.7	2116.0	2184.3	2448.9	2562.5	2447.3
37.5°	1988.8	2008.7	2061.1	2127.1	2090.5	2081.8	2243.1	2299.5	2487.8	2609.4	2503.7
40°	2139.8	2139.0	2229.6	2263.8	2296.3	2281.2	2375.0	2394.1	2508.5	2599.1	2505.3
42.5°	2317.0	2305.9	2398.0	2451.3	2493.4	2495.0	2512.5	2506.1	2518.0	2546.6	2488.6
45°	2485.4	2509.3	2602.2	2697.6	2739.7	2744.5	2628.5	2616.5	2534.7	2531.5	2456.8
47.5°	2691.2	2696.8	2773.1	2898.6	2996.4	2963.0	2778.6	2752.4	2607.8	2632.4	2510.1
50°	2703.2	2744.5	2812.8	2960.6	3261.0	3252.2	2973.3	2924.1	2725.4	2775.5	2658.7
52.5°	2453.7	2444.1	2525.2	2766.7	3241.1	3539.8	3295.9	3178.3	2978.1	2939.9	2899.4
55°	1869.6	1891.9	1963.4	2207.3	2814.4	3543.8	3735.3	3639.2	3248.2	3183.1	3136.2
56°	1640.0	1643.2	1710.7	1933.2	2568.1	3417.5	3818.7	3740.9	3382.5	3283.2	3211.7
57.5°	1359.5	1341.2	1376.2	1497.8	2167.6	3150.5	3727.4	3803.6	3539.8	3391.3	3291.9
60°	1070.3	1066.3	1052.0	1074.3	1369.9	2373.4	3102.8	3274.5	3524.0	3289.6	3152.9
62.5°	874.0	854.2	882.8	914.6	951.9	1472.4	2180.3	2281.2	2797.7	2626.1	2368.6
65°	677.8	668.2	704.0	807.3	829.5	935.2	1241.9	1319.8	1651.9	1622.5	1428.7
67.5°	466.4	468.0	499.0	656.3	769.2	759.6	760.4	800.9	862.1	640.4	557.8
70°	295.6	294.8	311.5	422.7	619.0	625.3	593.6	581.6	551.4	333.7	353.6
72.5°	189.9	184.3	193.1	233.6	320.2	370.3	381.4	388.5	319.4	262.2	284.5
75°	107.3	101.7	98.5	108.9	126.3	146.2	160.5	165.3	185.1	198.6	210.6
77.5°	32.6	29.4	35.8	47.7	62.8	84.2	102.5	105.7	124.7	140.6	152.6
80°	14.3	15.9	22.2	31.8	44.5	59.6	72.3	77.1	89.8	101.7	104.9
82.5°	8.7	9.5	15.1	21.5	31.0	42.1	51.6	53.2	66.0	75.5	77.9
85°	3.2	4.0	7.9	12.7	19.9	27.0	27.0	29.4	27.0	27.0	29.4
87.5°	0.0	0.0	0.8	1.6	1.6	2.4	3.2	3.2	4.0	4.8	5.6
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°	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2	2049.2
2.5°	2054.8	2050.8	2044.5	2021.4	2019.0	2011.9	1972.1	1965.8	1972.1	1953.1	1954.7
5°	2050.8	2062.7	2015.1	1992.0	1949.1	1918.1	1882.4	1864.1	1831.5	1810.8	1833.9
7.5°	2068.3	2063.5	2003.9	1953.9	1889.5	1810.8	1748.1	1712.3	1655.1	1639.2	1651.1
10°	2061.9	2036.5	1966.6	1900.6	1779.1	1709.9	1608.2	1509.7	1455.7	1427.9	1423.9
12.5°	2053.2	2046.0	1929.2	1815.6	1687.7	1542.3	1399.3	1306.3	1218.1	1179.9	1185.5
15°	2063.5	2003.1	1859.3	1715.5	1545.5	1354.8	1200.6	1080.6	1019.4	994.8	994.8
17.5°	2058.8	1982.5	1825.9	1603.5	1388.1	1162.5	993.2	920.9	895.5	895.5	902.6
20°	2061.1	1996.0	1758.4	1491.4	1202.2	978.9	855.8	829.5	840.7	844.6	848.6
22.5°	2074.6	1951.5	1692.5	1368.3	1029.8	837.5	777.1	777.9	797.8	819.2	815.2
25°	2091.3	1934.0	1612.2	1245.9	897.9	768.4	749.3	746.9	762.0	773.1	774.7
27.5°	2077.0	1903.8	1530.4	1093.3	789.8	722.3	718.3	719.9	724.7	746.9	739.8
30°	2123.9	1912.6	1427.9	965.4	730.2	707.2	702.4	700.0	707.2	713.5	708.0
32.5°	2181.9	1881.6	1351.6	842.3	700.8	696.1	686.5	683.3	687.3	681.0	684.1
35°	2207.3	1876.0	1252.3	754.1	677.8	673.8	668.2	667.4	668.2	662.7	657.9
37.5°	2221.6	1902.2	1138.6	713.5	663.5	667.4	654.7	653.1	638.8	642.0	644.4
40°	2246.3	1861.7	1046.5	674.6	654.7	646.8	635.7	633.3	623.7	618.2	623.7
42.5°	2210.5	1849.8	955.9	657.9	642.0	633.3	625.3	611.8	608.6	603.9	600.7
45°	2181.9	1781.4	874.8	637.3	626.9	622.2	607.1	592.8	580.8	585.6	578.5
47.5°	2203.4	1757.6	794.6	619.8	606.3	600.7	585.6	574.5	562.6	557.0	555.4
50°	2289.2	1802.1	727.0	607.1	588.8	585.6	565.7	553.0	541.9	537.9	539.5
52.5°	2494.2	1923.7	681.0	580.8	572.1	557.8	546.7	530.8	523.6	510.9	518.9
55°	2754.0	2121.5	669.0	556.2	551.4	538.7	523.6	511.7	498.2	487.9	485.5
56°	2837.4	2216.1	659.5	546.7	538.7	531.6	511.7	504.6	483.1	480.7	479.1
57.5°	2905.0	2299.5	661.1	528.4	520.4	514.1	502.2	484.7	470.4	461.7	465.6
60°	2752.4	2152.5	630.9	500.6	499.0	487.1	470.4	462.4	445.0	434.6	432.3
62.5°	2046.0	1461.2	511.7	464.8	464.0	451.3	432.3	423.5	420.3	406.0	406.0
65°	1178.4	916.1	442.6	435.4	429.1	416.4	397.3	390.1	382.2	377.4	373.5
67.5°	503.0	475.2	402.1	401.3	394.1	378.2	359.1	348.0	337.7	328.2	332.9
70°	364.7	370.3	363.1	359.1	350.4	330.5	313.9	300.4	284.5	278.1	282.9
72.5°	289.2	301.1	311.5	312.3	301.9	278.9	260.6	242.3	224.9	216.1	220.1
75°	219.3	227.2	237.6	240.0	224.9	209.0	191.5	172.4	158.9	148.6	150.2
77.5°	158.1	156.5	166.1	164.5	157.3	146.2	130.3	112.8	97.7	88.2	89.0
80°	108.1	110.4	116.0	115.2	106.5	99.3	87.4	73.1	62.0	54.0	52.4
82.5°	75.5	79.5	84.2	80.3	73.1	66.0	57.2	46.9	38.1	31.8	30.2
85°	27.0	31.0	35.8	38.1	40.5	38.9	32.6	26.2	19.1	15.9	15.1
87.5°	5.6	6.4	7.2	7.2	7.2	6.4	5.6	5.6	4.8	2.4	2.4
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)