

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: P526828

Luminaire Tested: **GALN-SA1D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526828  
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-SA1D-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6634 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

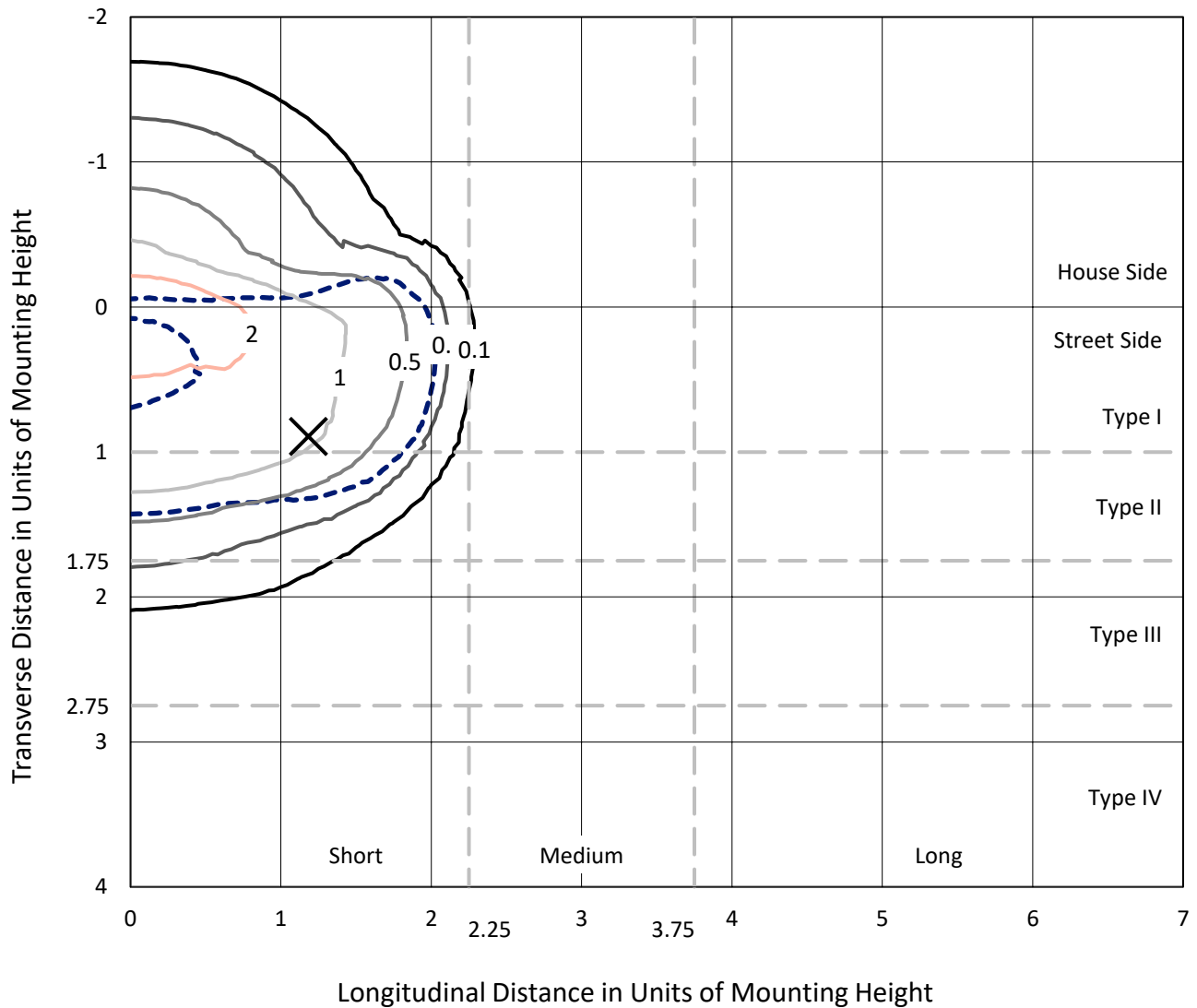
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

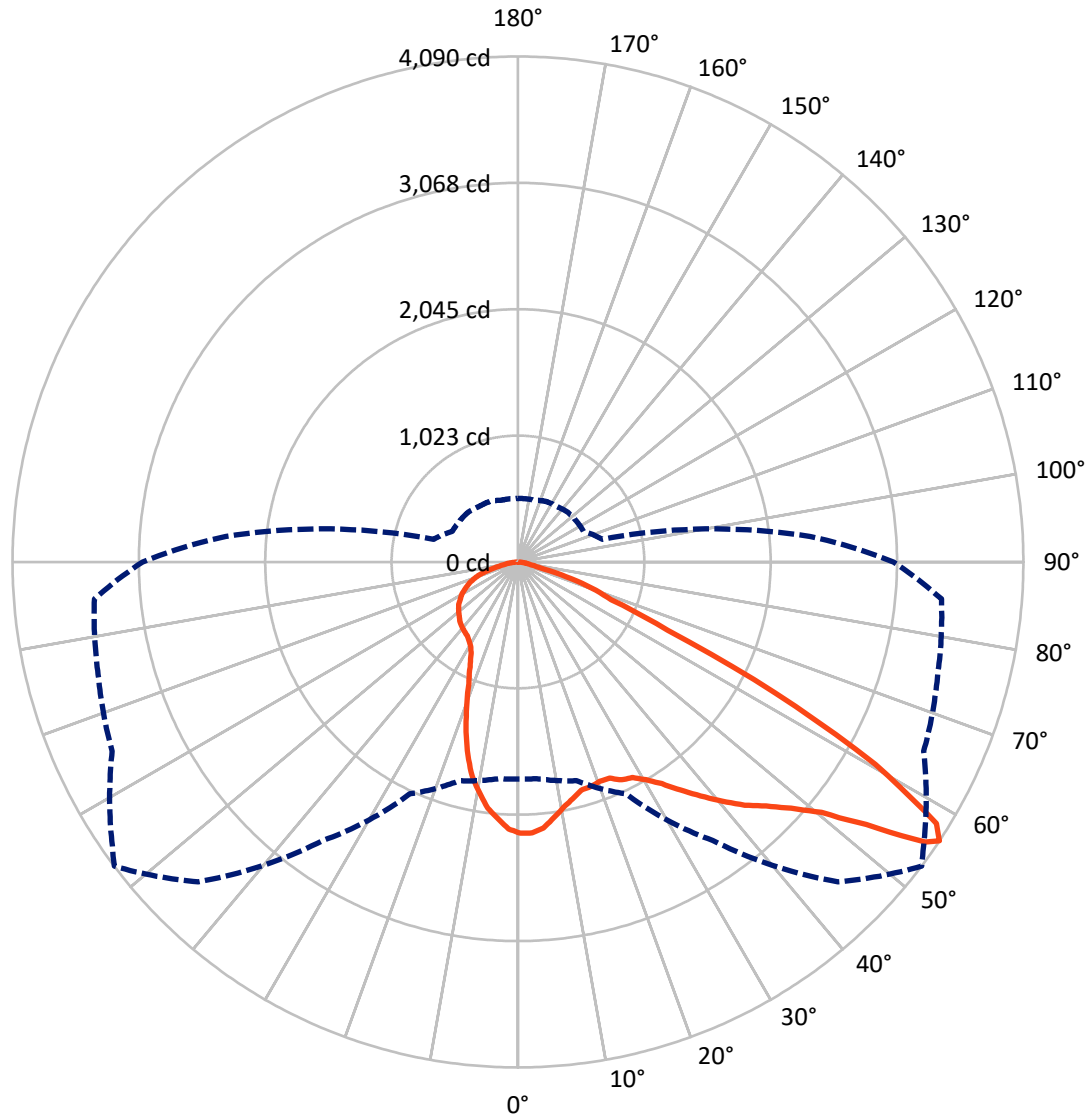
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1936.0	0.0	1936.0
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	4698.1	0.0	4698.1
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	6634.0	0.0	6634.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.3	2.9
10°-20°	485.3	7.3
20°-30°	715.6	10.8
30°-40°	1022.4	15.4
40°-50°	1407.2	21.2
50°-60°	1663.0	25.1
60°-70°	886.3	13.4
70°-80°	224.8	3.4
80°-90°	35.1	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°	6634.0	100.0
0°-180°	6634.0	100.0

**Coefficient of Utilization**



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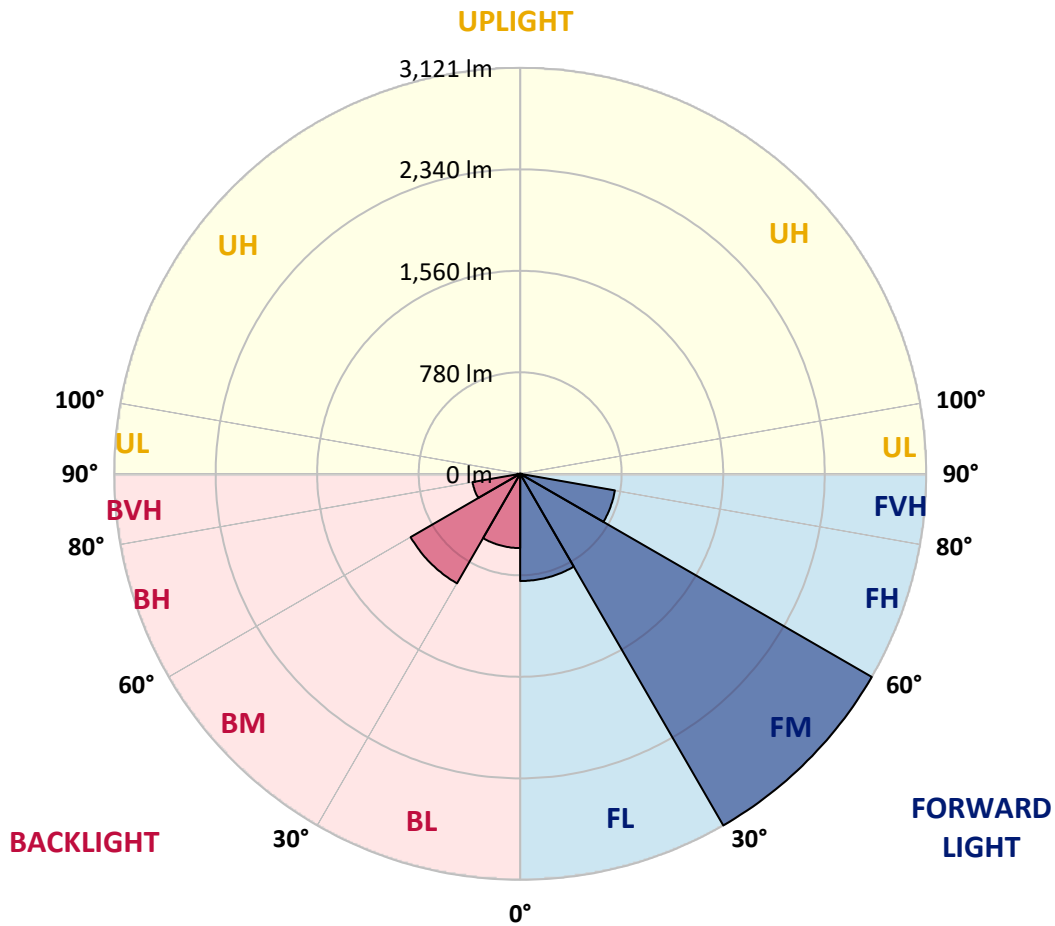
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.2	12.4			
FM (30°-60°)	3120.5	47.0			
FH (60°-80°)	739.3	11.1			G1/1800
FVH (80°-90°)	14.1	0.2			G1/100
BL (0°-30°)	571.0	8.6	B2/1000		
BM (30°-60°)	972.2	14.7	B1/1000		
BH (60°-80°)	371.8	5.6	B1/500		G1/500
BVH (80°-90°)	21.0	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°	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8
2.5°	2167.6	2148.8	2159.9	2155.6	2190.5	2200.7	2195.6	2199.9	2219.5	2210.1	2190.5
5°	2025.4	2051.8	2056.9	2069.7	2090.1	2130.1	2161.6	2170.1	2179.5	2222.9	2218.6
7.5°	1896.1	1914.0	1904.6	1942.0	1986.3	2051.0	2089.3	2096.1	2182.0	2205.9	2223.7
10°	1814.4	1796.5	1839.1	1849.3	1899.5	1973.5	2019.5	2047.6	2125.9	2220.3	2231.4
12.5°	1738.6	1732.7	1758.2	1787.1	1843.3	1919.9	1966.7	1977.8	2098.6	2198.2	2250.1
15°	1682.5	1675.7	1701.2	1722.5	1788.0	1856.1	1915.7	1947.1	2068.8	2185.4	2233.9
17.5°	1638.2	1637.4	1651.8	1690.1	1757.4	1814.4	1910.5	1912.2	2053.5	2205.0	2247.6
20°	1635.7	1634.8	1637.4	1679.9	1741.2	1811.0	1894.4	1909.7	2053.5	2191.4	2248.4
22.5°	1656.9	1643.3	1658.6	1685.9	1730.1	1816.9	1900.3	1934.4	2102.9	2258.6	2286.7
25°	1691.0	1694.4	1702.9	1712.3	1737.8	1830.6	1953.1	1981.2	2160.7	2316.5	2339.5
27.5°	1753.1	1751.4	1754.8	1759.9	1782.0	1843.3	1974.4	2046.7	2281.6	2419.5	2396.5
30°	1844.2	1838.2	1851.8	1869.7	1849.3	1884.2	2045.0	2099.5	2393.9	2523.3	2460.3
32.5°	1926.7	1948.8	1974.4	1982.0	1957.4	1964.2	2138.6	2193.9	2487.5	2650.9	2538.6
35°	2029.7	2047.6	2081.6	2105.4	2101.2	2080.8	2266.3	2339.5	2622.9	2744.5	2621.2
37.5°	2130.1	2151.4	2207.6	2278.2	2239.0	2229.7	2402.4	2462.9	2664.6	2794.8	2681.6
40°	2291.8	2291.0	2388.0	2424.6	2459.5	2443.3	2543.7	2564.1	2686.7	2783.7	2683.3
42.5°	2481.6	2469.7	2568.4	2625.4	2670.5	2672.2	2690.9	2684.1	2696.9	2727.5	2665.4
45°	2662.0	2687.5	2787.1	2889.2	2934.3	2939.4	2815.2	2802.4	2714.8	2711.4	2631.4
47.5°	2882.4	2888.4	2970.1	3104.5	3209.2	3173.5	2976.0	2947.9	2793.1	2819.4	2688.4
50°	2895.2	2939.4	3012.6	3170.9	3492.6	3483.2	3184.5	3131.8	2919.0	2972.6	2847.5
52.5°	2628.0	2617.7	2704.6	2963.3	3471.3	3791.3	3530.0	3404.1	3189.6	3148.8	3105.4
55°	2002.5	2026.3	2102.9	2364.1	3014.3	3795.6	4000.7	3897.7	3479.0	3409.2	3359.0
56°	1756.5	1759.9	1832.3	2070.5	2750.5	3660.3	4090.0	4006.6	3622.8	3516.4	3439.8
57.5°	1456.1	1436.5	1474.0	1604.2	2321.6	3374.3	3992.1	4073.8	3791.3	3632.2	3525.8
60°	1146.3	1142.1	1126.8	1150.6	1467.2	2542.0	3323.2	3507.1	3774.3	3523.2	3376.9
62.5°	936.1	914.8	945.5	979.5	1019.5	1576.9	2335.2	2443.3	2996.5	2812.6	2536.9
65°	725.9	715.7	754.0	864.6	888.5	1001.7	1330.1	1413.5	1769.3	1737.8	1530.1
67.5°	499.6	501.3	534.4	702.9	823.8	813.6	814.4	857.8	923.4	685.9	597.4
70°	316.6	315.7	333.6	452.7	662.9	669.8	635.7	622.9	590.6	357.4	378.7
72.5°	203.4	197.4	206.8	250.2	343.0	396.6	408.5	416.2	342.1	280.8	304.7
75°	114.9	108.9	105.5	116.6	135.3	156.6	171.9	177.0	198.3	212.8	225.5
77.5°	34.9	31.5	38.3	51.1	67.2	90.2	109.8	113.2	133.6	150.6	163.4
80°	15.3	17.0	23.8	34.0	47.7	63.8	77.4	82.5	96.2	108.9	112.3
82.5°	9.4	10.2	16.2	23.0	33.2	45.1	55.3	57.0	70.6	80.8	83.4
85°	3.4	4.3	8.5	13.6	21.3	28.9	28.9	31.5	28.9	28.9	31.5
87.5°	0.0	0.0	0.9	1.7	1.7	2.6	3.4	3.4	4.3	5.1	6.0
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°	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8
2.5°	2200.7	2196.5	2189.7	2165.0	2162.4	2154.8	2112.2	2105.4	2112.2	2091.8	2093.5
5°	2196.5	2209.3	2158.2	2133.5	2087.6	2054.4	2016.1	1996.5	1961.6	1939.5	1964.2
7.5°	2215.2	2210.1	2146.3	2092.7	2023.7	1939.5	1872.3	1834.0	1772.7	1755.7	1768.4
10°	2208.4	2181.2	2106.3	2035.6	1905.4	1831.4	1722.5	1616.9	1559.1	1529.3	1525.0
12.5°	2199.0	2191.4	2066.3	1944.6	1807.6	1651.8	1498.7	1399.1	1304.6	1263.8	1269.7
15°	2210.1	2145.4	1991.4	1837.4	1655.2	1451.0	1285.9	1157.4	1091.9	1065.5	1065.5
17.5°	2205.0	2123.3	1955.7	1717.4	1486.7	1245.0	1063.8	986.3	959.1	959.1	966.8
20°	2207.6	2137.8	1883.3	1597.4	1287.6	1048.5	916.6	888.5	900.4	904.6	908.9
22.5°	2222.0	2090.1	1812.7	1465.5	1102.9	897.0	832.3	833.2	854.4	877.4	873.1
25°	2239.9	2071.4	1726.7	1334.4	961.7	822.9	802.5	800.0	816.1	828.0	829.7
27.5°	2224.6	2039.1	1639.1	1171.0	845.9	773.6	769.3	771.0	776.1	800.0	792.3
30°	2274.8	2048.4	1529.3	1034.0	782.1	757.4	752.3	749.8	757.4	764.2	758.3
32.5°	2336.9	2015.2	1447.6	902.1	750.6	745.5	735.3	731.9	736.1	729.3	732.7
35°	2364.1	2009.3	1341.2	807.6	725.9	721.7	715.7	714.9	715.7	709.8	704.6
37.5°	2379.5	2037.3	1219.5	764.2	710.6	714.9	701.2	699.5	684.2	687.6	690.2
40°	2405.8	1993.9	1120.8	722.5	701.2	692.7	680.8	678.3	668.1	662.1	668.1
42.5°	2367.5	1981.2	1023.8	704.6	687.6	678.3	669.8	655.3	651.9	646.8	643.4
45°	2336.9	1908.0	937.0	682.5	671.5	666.4	650.2	634.9	622.1	627.2	619.5
47.5°	2359.9	1882.5	851.0	663.8	649.3	643.4	627.2	615.3	602.5	596.6	594.9
50°	2451.8	1930.1	778.7	650.2	630.6	627.2	605.9	592.3	580.4	576.1	577.8
52.5°	2671.4	2060.3	729.3	622.1	612.7	597.4	585.5	568.5	560.8	547.2	555.7
55°	2949.6	2272.2	716.6	595.7	590.6	577.0	560.8	548.1	533.6	522.5	520.0
56°	3039.0	2373.5	706.3	585.5	577.0	569.3	548.1	540.4	517.4	514.9	513.2
57.5°	3111.3	2462.9	708.1	565.9	557.4	550.6	537.8	519.1	503.8	494.4	498.7
60°	2947.9	2305.4	675.7	536.1	534.4	521.7	503.8	495.3	476.6	465.5	463.0
62.5°	2191.4	1565.0	548.1	497.8	497.0	483.4	463.0	453.6	450.2	434.9	434.9
65°	1262.1	981.2	474.0	466.4	459.6	445.9	425.5	417.9	409.3	404.2	400.0
67.5°	538.7	508.9	430.6	429.8	422.1	405.1	384.7	372.7	361.7	351.5	356.6
70°	390.6	396.6	388.9	384.7	375.3	354.0	336.2	321.7	304.7	297.9	303.0
72.5°	309.8	322.5	333.6	334.5	323.4	298.7	279.1	259.6	240.8	231.5	235.7
75°	234.9	243.4	254.5	257.0	240.8	223.8	205.1	184.7	170.2	159.1	160.8
77.5°	169.4	167.7	177.9	176.2	168.5	156.6	139.6	120.8	104.7	94.5	95.3
80°	115.7	118.3	124.2	123.4	114.0	106.4	93.6	78.3	66.4	57.9	56.2
82.5°	80.8	85.1	90.2	86.0	78.3	70.6	61.3	50.2	40.8	34.0	32.3
85°	28.9	33.2	38.3	40.8	43.4	41.7	34.9	28.1	20.4	17.0	16.2
87.5°	6.0	6.8	7.7	7.7	7.7	6.8	6.0	6.0	5.1	2.6	2.6
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)