

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: P526984

Luminaire Tested: **GALN-SA2A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526984
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-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 6519 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

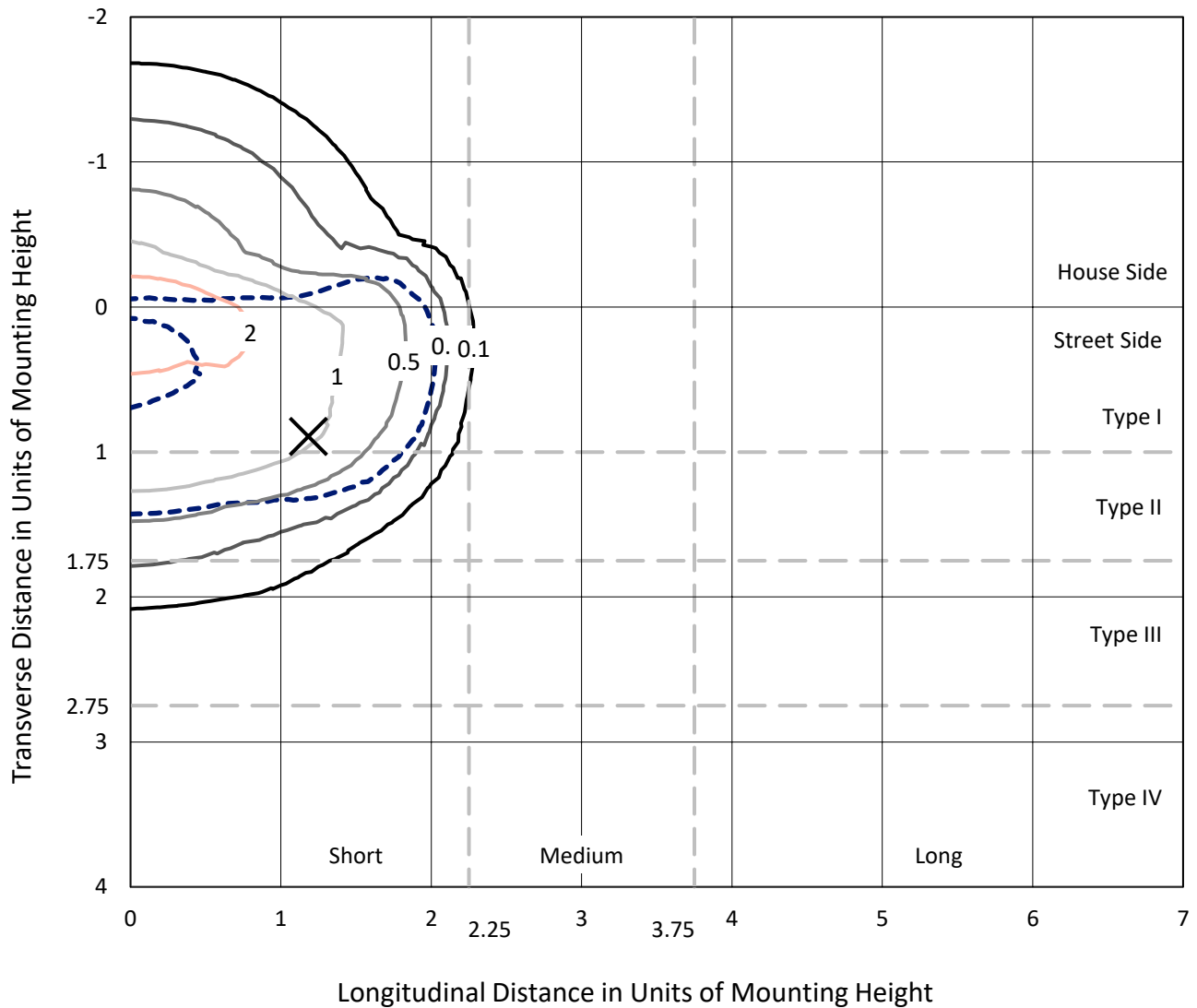
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

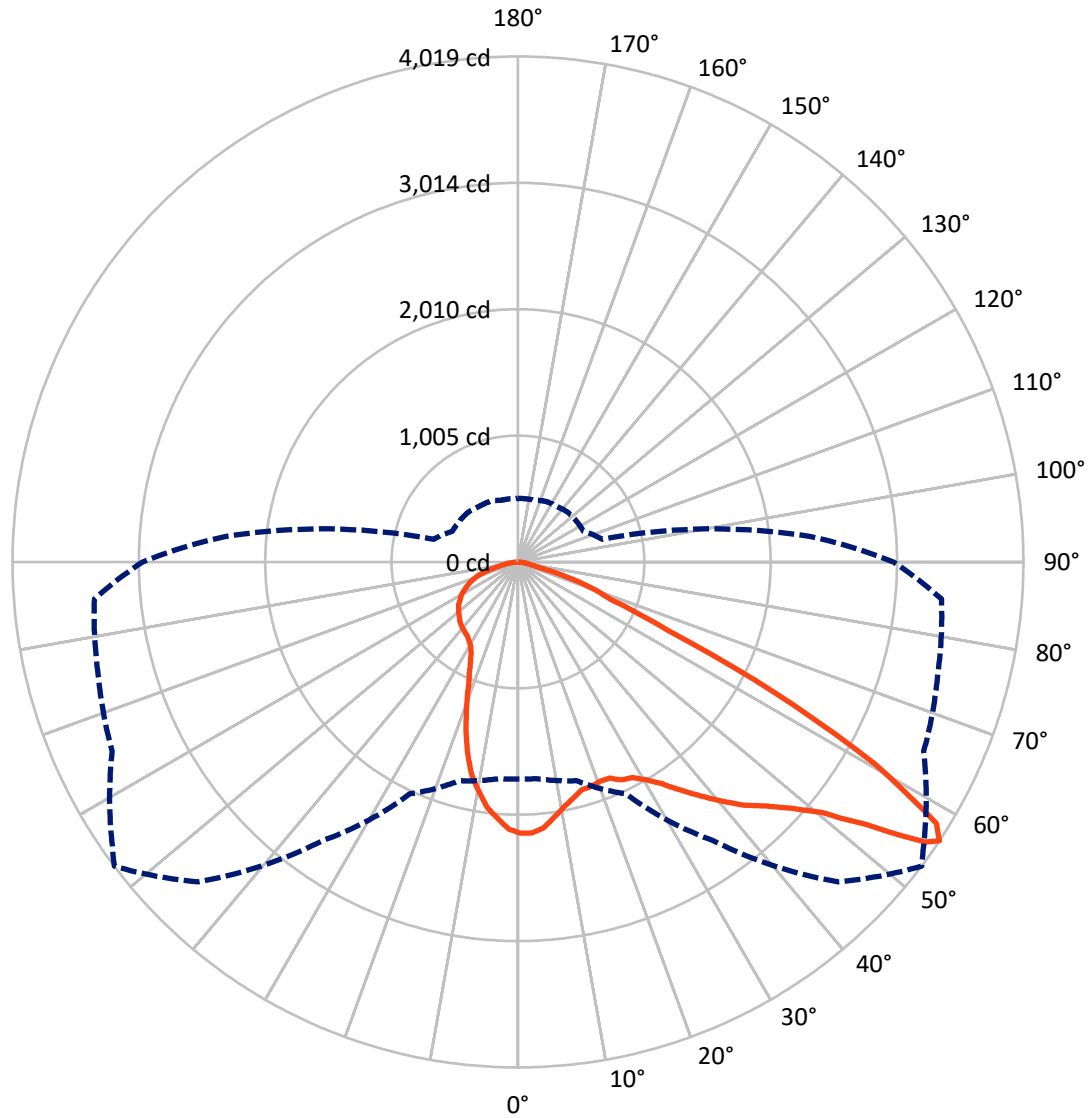
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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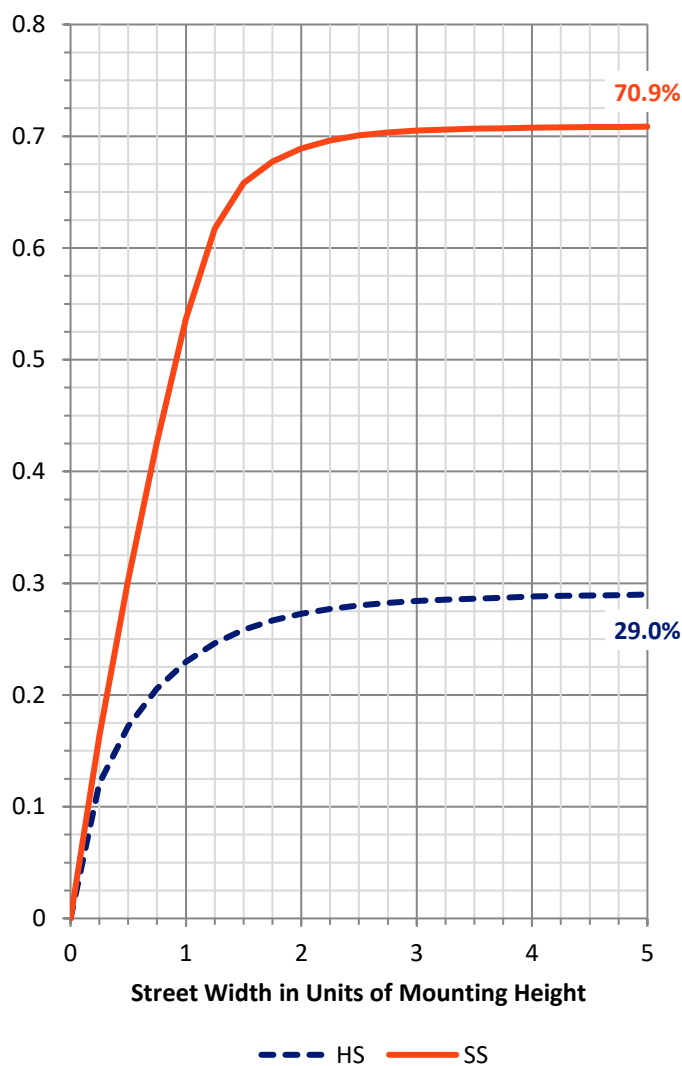
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.4	0.0	1902.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4616.6	0.0	4616.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	6519.0	0.0	6519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	2.9
10°-20°	476.9	7.3
20°-30°	703.2	10.8
30°-40°	1004.7	15.4
40°-50°	1382.8	21.2
50°-60°	1634.2	25.1
60°-70°	870.9	13.4
70°-80°	220.9	3.4
80°-90°	34.4	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°	6519.0	100.0
0°-180°	6519.0	100.0

Coefficient of Utilization



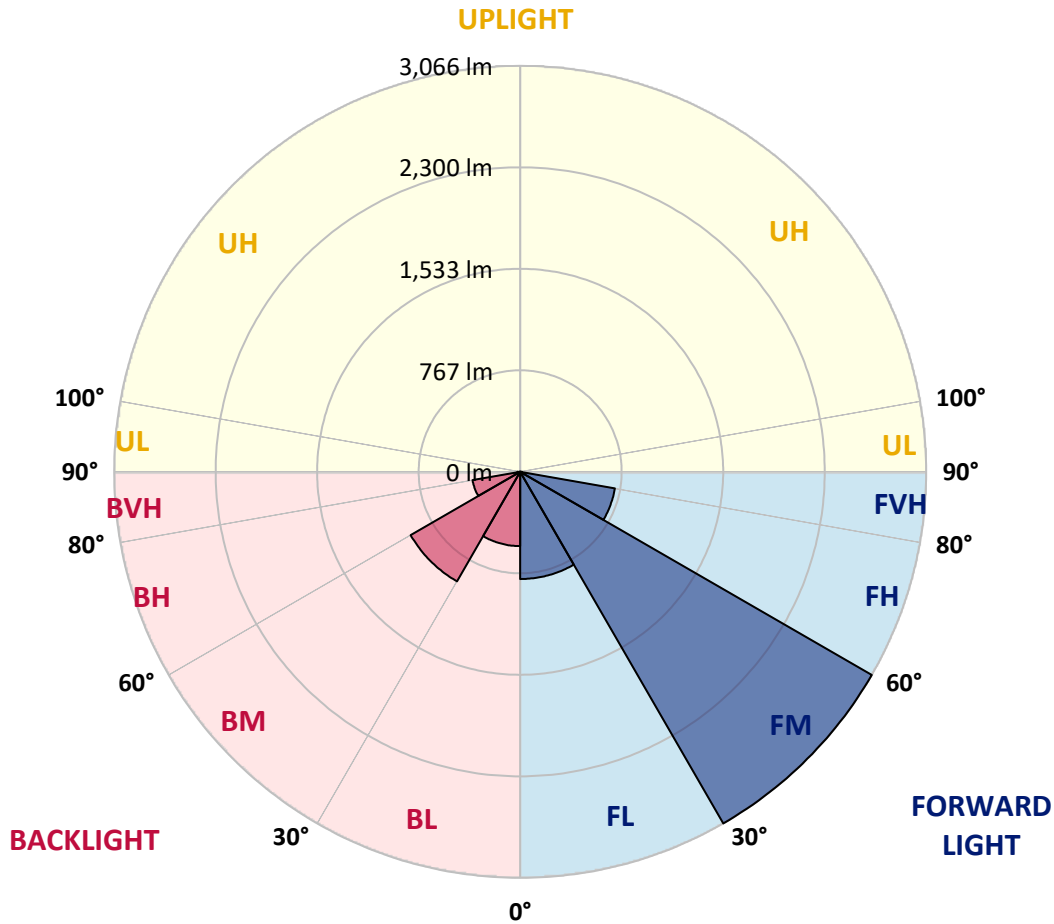
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.9	12.4			
FM (30°-60°)	3066.4	47.0			
FH (60°-80°)	726.5	11.1			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	561.1	8.6	B2/1000		
BM (30°-60°)	955.3	14.7	B1/1000		
BH (60°-80°)	365.4	5.6	B1/500		G1/500
BVH (80°-90°)	20.6	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°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2130.0	2111.6	2122.5	2118.3	2152.6	2162.6	2157.6	2161.8	2181.0	2171.8	2152.6
5°	1990.3	2016.2	2021.3	2033.8	2053.9	2093.2	2124.1	2132.5	2141.7	2184.3	2180.2
7.5°	1863.2	1880.8	1871.6	1908.4	1951.9	2015.4	2053.0	2059.7	2144.2	2167.6	2185.2
10°	1782.9	1765.4	1807.2	1817.2	1866.6	1939.3	1984.5	2012.1	2089.0	2181.8	2192.7
12.5°	1708.5	1702.6	1727.7	1756.2	1811.4	1886.6	1932.6	1943.5	2062.2	2160.1	2211.1
15°	1653.3	1646.6	1671.7	1692.6	1757.0	1823.9	1882.4	1913.4	2033.0	2147.5	2195.2
17.5°	1609.8	1609.0	1623.2	1660.8	1726.9	1782.9	1877.4	1879.1	2017.9	2166.8	2208.6
20°	1607.3	1606.5	1609.0	1650.8	1711.0	1779.6	1861.5	1876.6	2017.9	2153.4	2209.4
22.5°	1628.2	1614.8	1629.9	1656.7	1700.1	1785.4	1867.4	1900.8	2066.4	2219.5	2247.1
25°	1661.7	1665.0	1673.4	1682.6	1707.7	1798.8	1919.2	1946.8	2123.3	2276.3	2298.9
27.5°	1722.7	1721.0	1724.4	1729.4	1751.2	1811.4	1940.1	2011.2	2242.0	2377.5	2354.9
30°	1812.2	1806.3	1819.7	1837.3	1817.2	1851.5	2009.6	2063.1	2352.4	2479.5	2417.7
32.5°	1893.3	1915.1	1940.1	1947.7	1923.4	1930.1	2101.5	2155.9	2444.4	2605.0	2494.6
35°	1994.5	2012.1	2045.5	2068.9	2064.8	2044.7	2227.0	2298.9	2577.4	2697.0	2575.7
37.5°	2093.2	2114.1	2169.3	2238.7	2200.2	2191.0	2360.8	2420.2	2618.4	2746.3	2635.1
40°	2252.1	2251.2	2346.6	2382.5	2416.8	2400.9	2499.6	2519.7	2640.1	2735.4	2636.8
42.5°	2438.6	2426.9	2523.9	2579.9	2624.2	2625.9	2644.3	2637.6	2650.1	2680.2	2619.2
45°	2615.9	2640.9	2738.8	2839.1	2883.5	2888.5	2766.4	2753.8	2667.7	2664.4	2585.7
47.5°	2832.4	2838.3	2918.6	3050.7	3153.6	3118.5	2924.4	2896.8	2744.6	2770.6	2641.8
50°	2845.0	2888.5	2960.4	3115.9	3432.1	3422.9	3129.3	3077.5	2868.4	2921.1	2798.2
52.5°	2582.4	2572.4	2657.7	2911.9	3411.1	3725.6	3468.9	3345.1	3134.3	3094.2	3051.6
55°	1967.7	1991.2	2066.4	2323.2	2962.1	3729.8	3931.3	3830.1	3418.7	3350.1	3300.8
56°	1726.1	1729.4	1800.5	2034.6	2702.8	3596.8	4019.1	3937.2	3560.0	3455.5	3380.2
57.5°	1430.9	1411.6	1448.4	1576.4	2281.3	3315.8	3922.9	4003.2	3725.6	3569.2	3464.7
60°	1126.5	1122.3	1107.2	1130.6	1441.7	2497.9	3265.6	3446.3	3708.9	3462.2	3318.3
62.5°	919.9	899.0	929.1	962.5	1001.9	1549.6	2294.7	2400.9	2944.5	2763.9	2492.9
65°	713.3	703.3	740.9	849.7	873.1	984.3	1307.1	1389.0	1738.6	1707.7	1503.6
67.5°	490.9	492.6	525.2	690.8	809.5	799.5	800.3	843.0	907.4	674.0	587.1
70°	311.1	310.3	327.8	444.9	651.5	658.1	624.7	612.2	580.4	351.2	372.1
72.5°	199.9	194.0	203.2	245.9	337.0	389.7	401.4	408.9	336.2	276.0	299.4
75°	112.9	107.0	103.7	114.6	133.0	153.9	168.9	173.9	194.9	209.1	221.6
77.5°	34.3	30.9	37.6	50.2	66.1	88.6	107.9	111.2	131.3	148.0	160.6
80°	15.1	16.7	23.4	33.5	46.8	62.7	76.1	81.1	94.5	107.0	110.4
82.5°	9.2	10.0	15.9	22.6	32.6	44.3	54.4	56.0	69.4	79.4	82.0
85°	3.3	4.2	8.4	13.4	20.9	28.4	28.4	30.9	28.4	28.4	30.9
87.5°	0.0	0.0	0.8	1.7	1.7	2.5	3.3	3.3	4.2	5.0	5.9
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°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2162.6	2158.4	2151.7	2127.5	2125.0	2117.4	2075.6	2068.9	2075.6	2055.6	2057.2
5°	2158.4	2171.0	2120.8	2096.5	2051.4	2018.8	1981.1	1961.9	1927.6	1905.9	1930.1
7.5°	2176.8	2171.8	2109.1	2056.4	1988.7	1905.9	1839.8	1802.2	1742.0	1725.2	1737.8
10°	2170.1	2143.4	2069.8	2000.4	1872.4	1799.7	1692.6	1588.9	1532.0	1502.8	1498.6
12.5°	2160.9	2153.4	2030.5	1910.9	1776.2	1623.2	1472.7	1374.8	1282.0	1241.9	1247.7
15°	2171.8	2108.2	1956.9	1805.5	1626.5	1425.8	1263.6	1137.3	1072.9	1047.0	1047.0
17.5°	2166.8	2086.5	1921.8	1687.6	1461.0	1223.5	1045.3	969.2	942.5	942.5	950.0
20°	2169.3	2100.7	1850.7	1569.7	1265.3	1030.3	900.7	873.1	884.8	889.0	893.1
22.5°	2183.5	2053.9	1781.3	1440.1	1083.8	881.4	817.9	818.7	839.6	862.2	858.0
25°	2201.1	2035.5	1696.8	1311.3	945.0	808.7	788.6	786.1	802.0	813.7	815.4
27.5°	2186.0	2003.7	1610.7	1150.7	831.3	760.2	756.0	757.7	762.7	786.1	778.6
30°	2235.4	2012.9	1502.8	1016.1	768.5	744.3	739.3	736.8	744.3	751.0	745.1
32.5°	2296.4	1980.3	1422.5	886.4	737.6	732.6	722.5	719.2	723.4	716.7	720.0
35°	2323.2	1974.4	1318.0	793.6	713.3	709.2	703.3	702.5	703.3	697.4	692.4
37.5°	2338.2	2002.0	1198.4	751.0	698.3	702.5	689.1	687.4	672.4	675.7	678.2
40°	2364.1	1959.4	1101.4	710.0	689.1	680.7	669.0	666.5	656.5	650.6	656.5
42.5°	2326.5	1946.8	1006.0	692.4	675.7	666.5	658.1	643.9	640.6	635.6	632.2
45°	2296.4	1874.9	920.7	670.7	659.8	654.8	638.9	623.9	611.3	616.3	608.8
47.5°	2319.0	1849.8	836.3	652.3	638.1	632.2	616.3	604.6	592.1	586.2	584.6
50°	2409.3	1896.7	765.2	638.9	619.7	616.3	595.4	582.0	570.3	566.2	567.8
52.5°	2625.1	2024.6	716.7	611.3	602.1	587.1	575.4	558.6	551.1	537.7	546.1
55°	2898.5	2232.8	704.1	585.4	580.4	567.0	551.1	538.6	524.3	513.5	511.0
56°	2986.3	2332.4	694.1	575.4	567.0	559.5	538.6	531.0	508.5	505.9	504.3
57.5°	3057.4	2420.2	695.8	556.1	547.8	541.1	528.5	510.1	495.1	485.9	490.1
60°	2896.8	2265.5	664.0	526.9	525.2	512.6	495.1	486.7	468.3	457.4	454.9
62.5°	2153.4	1537.9	538.6	489.2	488.4	475.0	454.9	445.7	442.4	427.3	427.3
65°	1240.2	964.2	465.8	458.3	451.6	438.2	418.1	410.6	402.2	397.2	393.0
67.5°	529.4	500.1	423.2	422.3	414.8	398.1	378.0	366.3	355.4	345.4	350.4
70°	383.8	389.7	382.2	378.0	368.8	347.9	330.3	316.1	299.4	292.7	297.7
72.5°	304.4	316.9	327.8	328.7	317.8	293.5	274.3	255.1	236.7	227.5	231.6
75°	230.8	239.2	250.0	252.6	236.7	219.9	201.5	181.5	167.3	156.4	158.1
77.5°	166.4	164.7	174.8	173.1	165.6	153.9	137.1	118.8	102.9	92.8	93.7
80°	113.7	116.2	122.1	121.3	112.1	104.5	92.0	76.9	65.2	56.9	55.2
82.5°	79.4	83.6	88.6	84.5	76.9	69.4	60.2	49.3	40.1	33.5	31.8
85°	28.4	32.6	37.6	40.1	42.6	41.0	34.3	27.6	20.1	16.7	15.9
87.5°	5.9	6.7	7.5	7.5	7.5	6.7	5.9	5.9	5.0	2.5	2.5
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)