

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: P527011

Luminaire Tested: **GALN-SA2A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

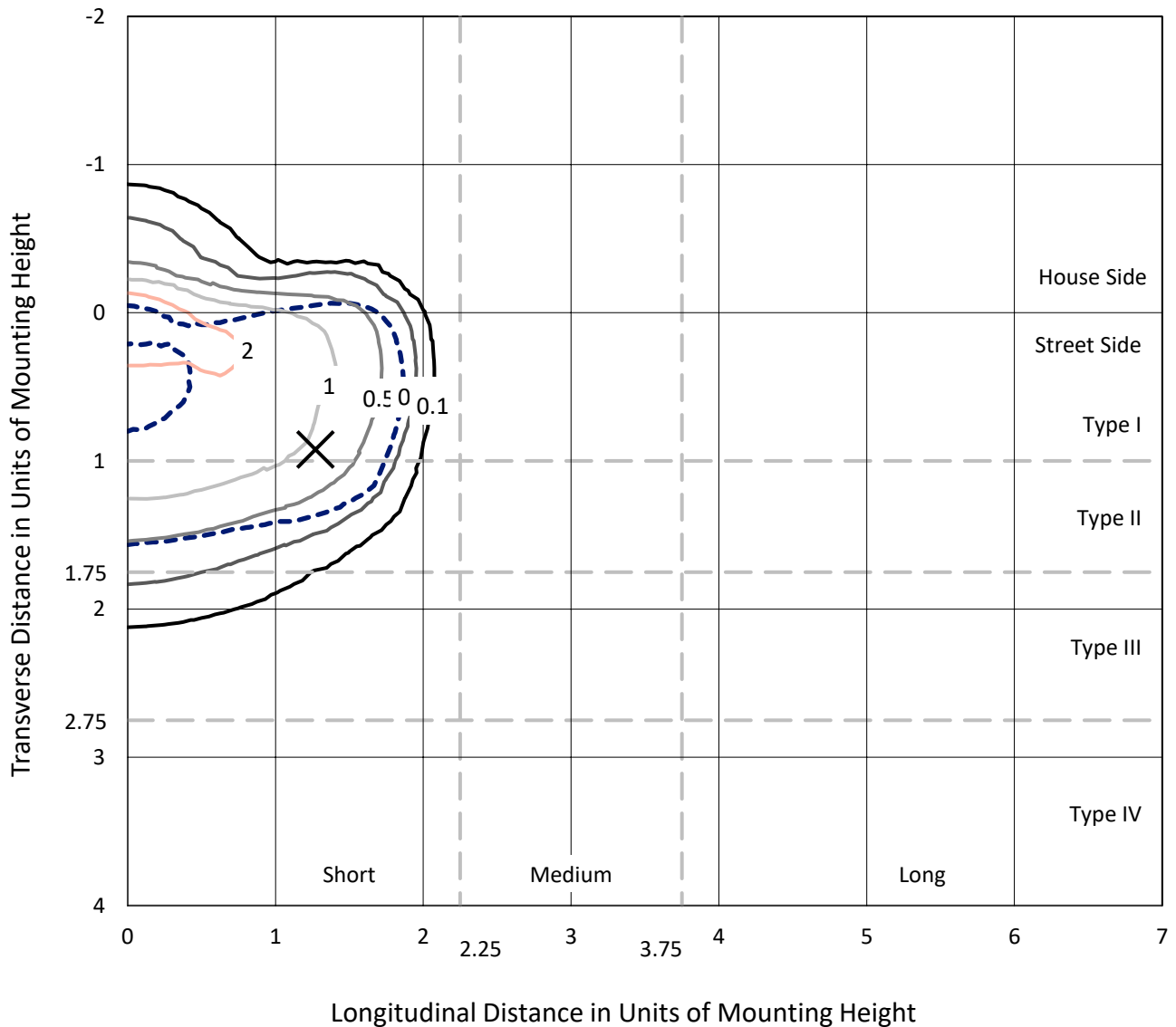
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

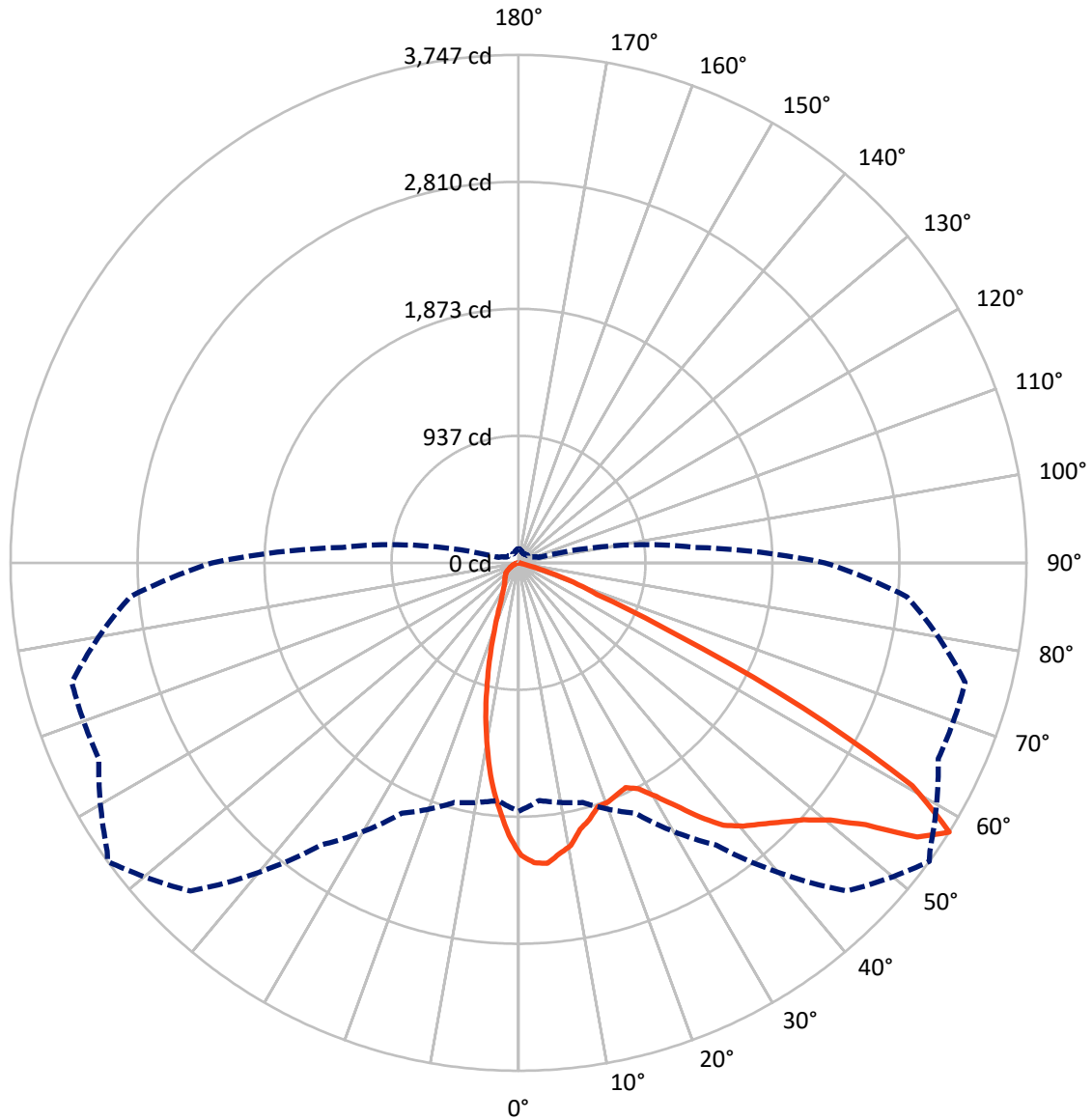
× Max cd
 - - - 1/2 Max cd



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 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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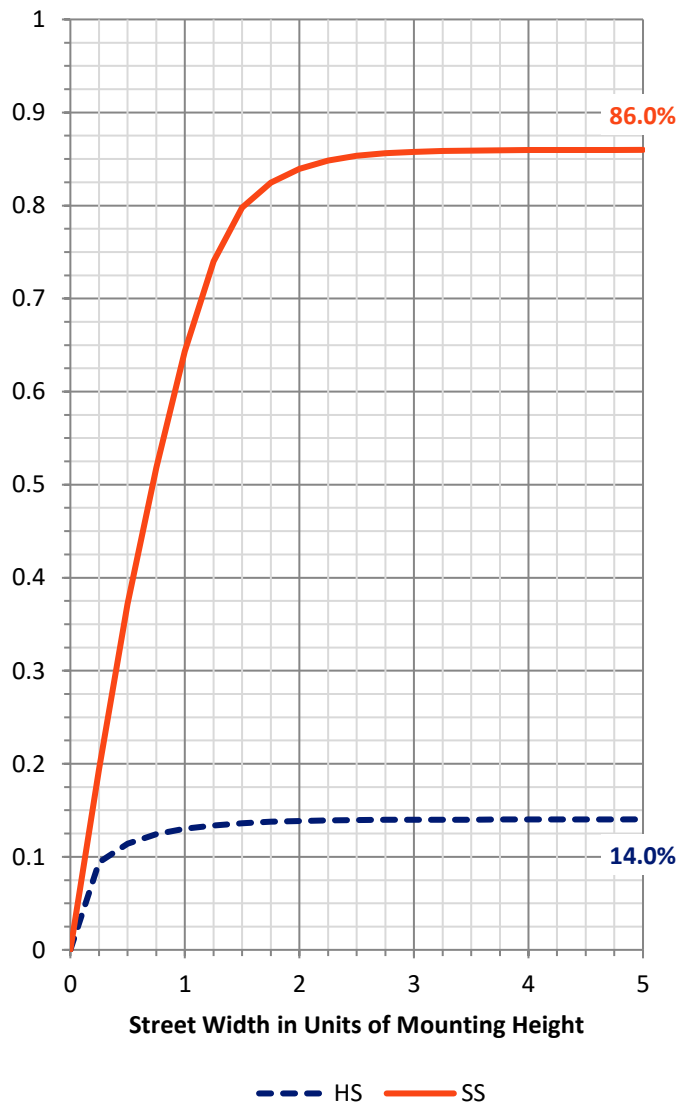
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.2	0.0	692.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	4205.8	0.0	4205.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	4898.0	0.0	4898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.7
10°-20°	385.5	7.9
20°-30°	510.8	10.4
30°-40°	742.4	15.2
40°-50°	1100.9	22.5
50°-60°	1376.6	28.1
60°-70°	543.0	11.1
70°-80°	54.1	1.1
80°-90°	4.2	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°	4898.0	100.0
0°-180°	4898.0	100.0

Coefficient of Utilization

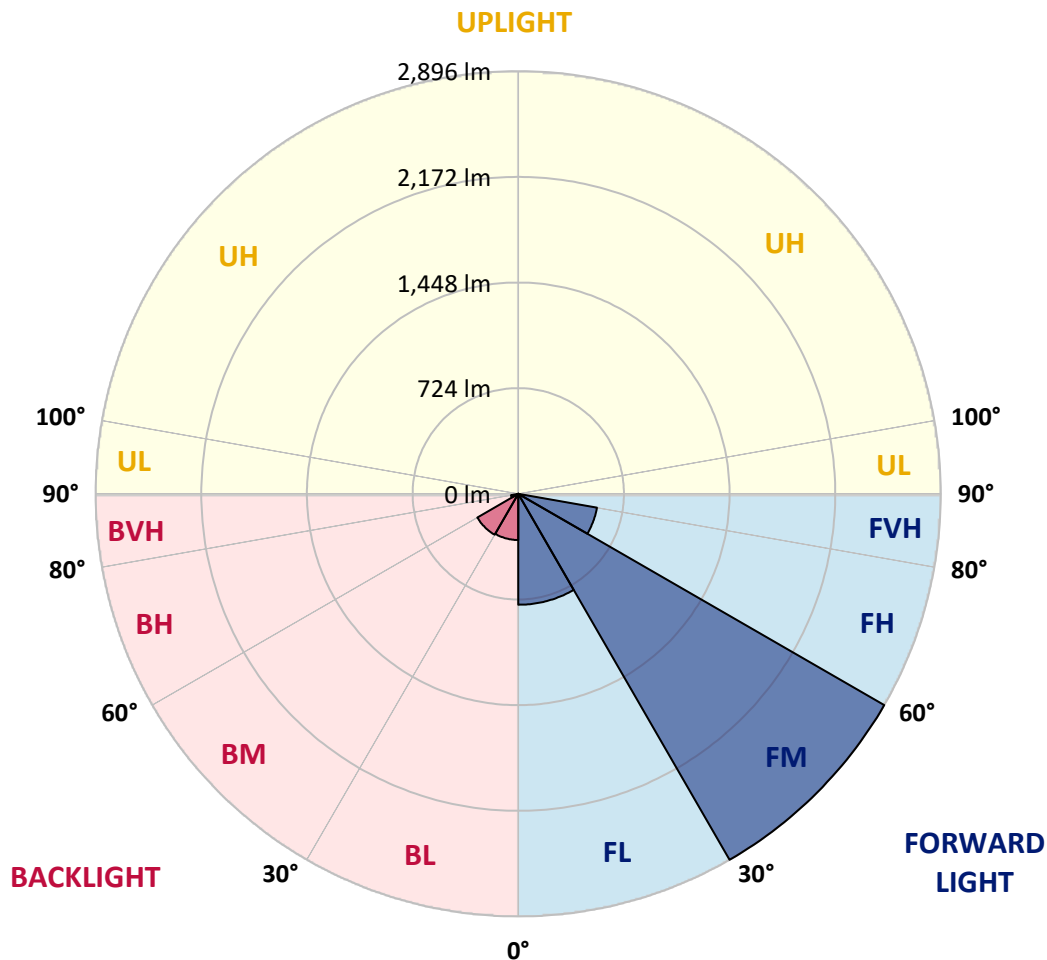


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.3	15.5			
FM (30°-60°)	2896.2	59.1			
FH (60°-80°)	547.4	11.2			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	316.6	6.5	B1/500		
BM (30°-60°)	323.7	6.6	B1/1000		
BH (60°-80°)	49.6	1.0	B0/110		G0/110
BVH (80°-90°)	2.3	0.0			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°	54°	55°	65°	75°	85°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2283.3	2259.6	2261.5	2253.3	2242.3	2250.5	2215.0	2223.2	2222.3	2174.0	2142.2
5°	2225.9	2251.4	2225.0	2246.9	2225.9	2248.7	2226.9	2210.5	2184.0	2148.5	2089.3
7.5°	2128.5	2103.9	2111.2	2138.5	2143.1	2194.1	2166.7	2187.7	2176.8	2106.6	2025.6
10°	1932.7	1927.2	1963.6	2000.1	2044.7	2099.3	2120.3	2108.5	2100.3	2073.8	1965.5
12.5°	1782.4	1797.9	1797.0	1857.1	1932.7	1963.6	2018.3	2016.5	2062.0	2012.8	1909.0
15°	1639.4	1647.6	1685.9	1723.2	1807.0	1895.3	1962.7	1971.8	2026.5	1991.9	1865.3
17.5°	1552.0	1540.1	1570.2	1614.8	1700.4	1816.1	1890.8	1912.6	1987.3	1980.0	1815.2
20°	1465.4	1465.4	1490.0	1542.9	1621.2	1751.4	1884.4	1878.0	1987.3	1966.4	1761.4
22.5°	1436.3	1450.9	1457.2	1497.3	1590.2	1702.2	1857.1	1868.9	2002.8	1960.0	1737.8
25°	1476.4	1457.2	1459.1	1490.9	1578.4	1678.6	1837.0	1863.5	2031.0	1991.9	1718.6
27.5°	1482.7	1501.9	1507.3	1529.2	1587.5	1685.9	1887.1	1940.9	2101.2	2066.6	1724.1
30°	1538.3	1557.4	1556.5	1593.9	1633.9	1745.1	1999.2	2010.1	2246.0	2160.4	1757.8
32.5°	1605.7	1625.7	1632.1	1675.8	1707.7	1853.4	2135.8	2164.0	2385.3	2307.9	1846.1
35°	1689.5	1682.2	1711.4	1755.1	1823.4	2011.9	2302.4	2349.8	2535.6	2499.2	1937.2
37.5°	1794.2	1785.1	1813.4	1884.4	1977.3	2199.5	2456.4	2487.3	2644.9	2676.8	2105.7
40°	1868.0	1871.7	1957.3	2052.9	2151.3	2378.0	2553.8	2583.9	2721.4	2842.5	2233.2
42.5°	1991.0	2013.7	2116.6	2233.2	2336.1	2511.9	2633.1	2662.2	2756.9	2975.5	2405.4
45°	2169.5	2159.5	2273.3	2403.5	2517.4	2651.3	2726.9	2716.9	2777.9	3107.6	2513.7
47.5°	2399.0	2400.8	2476.4	2587.5	2705.9	2772.4	2831.6	2796.1	2821.6	3246.9	2658.6
50°	2555.6	2569.3	2630.3	2744.2	2803.4	2905.4	2981.0	2959.1	2950.9	3330.7	2749.6
52.5°	2595.7	2636.7	2669.5	2811.6	2950.0	3111.2	3207.8	3254.2	3108.5	3359.0	2865.3
55°	2293.3	2329.8	2445.4	2640.3	3005.6	3437.3	3570.3	3571.2	3314.3	3484.6	2946.4
57.5°	1833.4	1759.6	1830.7	2037.4	2541.1	3423.6	3746.9	3704.1	3417.2	3410.9	2876.2
60°	1267.8	1249.6	1254.1	1336.1	1758.7	2723.2	3338.9	3394.5	3146.7	2956.4	2276.9
62.5°	1004.6	989.1	969.1	960.0	1092.0	1696.8	2355.3	2433.6	2200.4	1917.2	1349.8
65°	786.9	777.8	780.5	817.0	816.1	962.7	1287.8	1256.0	1005.5	743.2	424.4
67.5°	531.0	544.6	555.6	665.8	722.2	670.3	622.1	603.8	327.0	137.5	93.8
70°	298.7	300.6	312.4	416.2	548.3	520.1	429.0	429.0	163.0	50.1	53.7
72.5°	163.0	157.6	146.6	179.4	244.1	247.7	191.3	166.7	48.3	32.8	30.1
75°	79.2	78.3	67.4	55.6	52.8	43.7	33.7	31.0	21.9	20.9	18.2
77.5°	16.4	15.5	8.2	8.2	9.1	10.0	12.8	12.8	15.5	15.5	12.8
80°	0.0	0.0	0.9	3.6	6.4	9.1	10.9	10.9	12.8	12.8	10.0
82.5°	0.0	0.0	0.9	2.7	5.5	8.2	10.0	10.9	12.8	13.7	10.9
85°	0.0	0.0	0.0	1.8	4.6	6.4	5.5	5.5	4.6	3.6	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2125.8	2123.9	2082.0	2058.4	2015.6	1978.2	1948.2	1926.3	1926.3	1912.6	1899.9
5°	2065.6	2050.2	1960.9	1903.5	1822.5	1762.4	1721.4	1689.5	1639.4	1653.1	1599.3
7.5°	1991.0	1951.8	1833.4	1746.0	1633.9	1548.3	1460.9	1383.5	1308.8	1275.1	1293.3
10°	1910.8	1842.5	1683.1	1544.7	1405.3	1248.7	1146.7	1022.8	946.3	941.7	921.7
12.5°	1826.1	1748.7	1554.7	1363.4	1180.4	991.8	836.1	720.4	668.5	611.1	622.1
15°	1762.4	1647.6	1411.7	1181.3	938.1	747.7	591.1	501.8	452.7	439.0	434.4
17.5°	1693.1	1570.2	1266.0	987.3	735.9	538.3	425.3	382.5	363.4	363.4	360.7
20°	1621.2	1482.7	1121.2	807.0	551.9	401.7	340.6	327.0	326.1	325.1	325.1
22.5°	1573.8	1382.6	990.0	641.2	416.2	321.5	296.0	290.5	294.2	305.1	305.1
25°	1523.7	1286.0	845.2	494.6	322.4	276.0	261.4	265.0	274.1	284.2	280.5
27.5°	1472.7	1223.2	708.6	388.0	264.1	241.4	235.9	244.1	254.1	263.2	260.5
30°	1460.9	1155.8	579.3	294.2	226.8	210.4	214.0	221.3	231.3	235.0	238.6
32.5°	1479.1	1103.0	474.5	241.4	197.6	193.1	193.1	196.7	203.1	211.3	208.6
35°	1531.0	1072.9	375.2	209.5	181.2	176.7	175.8	179.4	183.1	185.8	183.1
37.5°	1610.3	1049.2	306.9	185.8	170.3	163.0	161.2	160.3	163.9	164.9	166.7
40°	1711.4	1062.0	260.5	171.2	159.4	151.2	145.7	145.7	145.7	148.5	149.4
42.5°	1820.6	1079.3	225.0	163.0	149.4	139.3	133.9	132.1	133.9	137.5	136.6
45°	1935.4	1113.0	202.2	150.3	140.3	127.5	120.2	118.4	123.0	130.2	129.3
47.5°	2042.9	1161.2	184.9	142.1	131.2	119.3	110.2	108.4	116.6	126.6	127.5
50°	2150.3	1245.0	178.5	135.7	124.8	111.1	102.9	101.1	110.2	123.0	125.7
52.5°	2274.2	1335.2	174.0	127.5	117.5	104.7	95.6	93.8	103.8	120.2	121.1
55°	2355.3	1411.7	170.3	112.9	103.8	94.7	87.4	86.5	97.5	112.0	115.7
57.5°	2260.6	1305.1	157.6	98.4	88.3	83.8	77.4	77.4	86.5	100.2	102.9
60°	1714.1	858.9	112.0	79.2	74.7	72.0	69.2	69.2	76.5	86.5	87.4
62.5°	1003.7	462.7	72.0	63.8	63.8	61.0	56.5	56.5	63.8	69.2	70.1
65°	297.8	148.5	58.3	54.6	53.7	49.2	44.6	43.7	49.2	51.9	51.0
67.5°	85.6	68.3	48.3	45.5	44.6	37.3	34.6	33.7	34.6	32.8	31.9
70°	51.0	46.4	37.3	38.3	33.7	27.3	24.6	23.7	21.9	19.1	17.3
72.5°	28.2	28.2	27.3	29.1	23.7	18.2	15.5	12.8	10.0	8.2	7.3
75°	17.3	18.2	19.1	20.0	15.5	11.8	10.0	6.4	3.6	1.8	1.8
77.5°	11.8	12.8	13.7	14.6	12.8	10.9	8.2	4.6	0.9	0.0	0.0
80°	9.1	10.0	11.8	12.8	13.7	14.6	10.9	4.6	0.9	0.0	0.0
82.5°	10.0	10.9	13.7	12.8	12.8	12.8	10.0	4.6	0.9	0.0	0.0
85°	1.8	2.7	4.6	4.6	6.4	8.2	6.4	1.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)