

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: P526804

Luminaire Tested: **GALN-SA1D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6169 lumens
Efficiency: N/A
Efficacy: 94.9 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

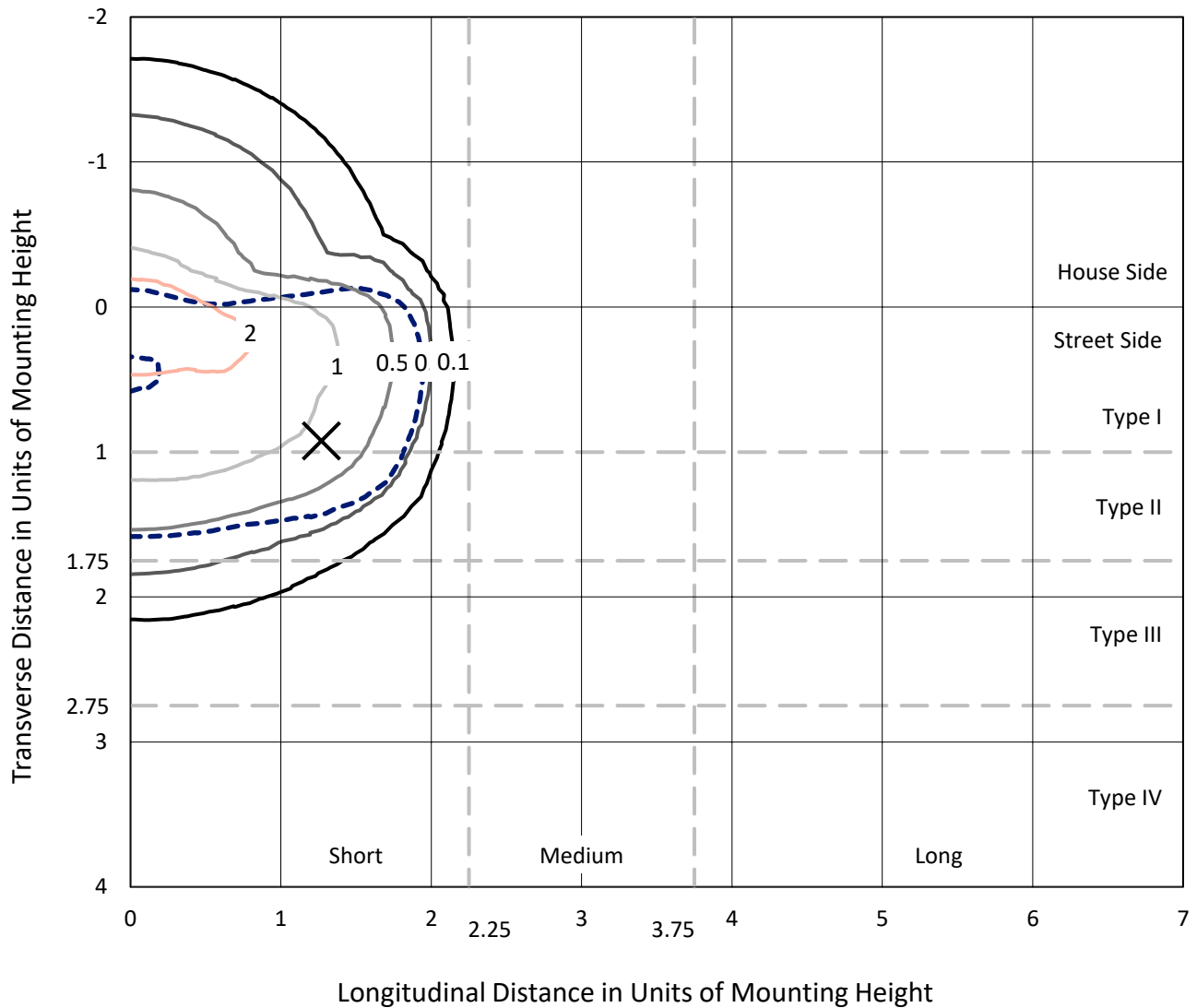
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

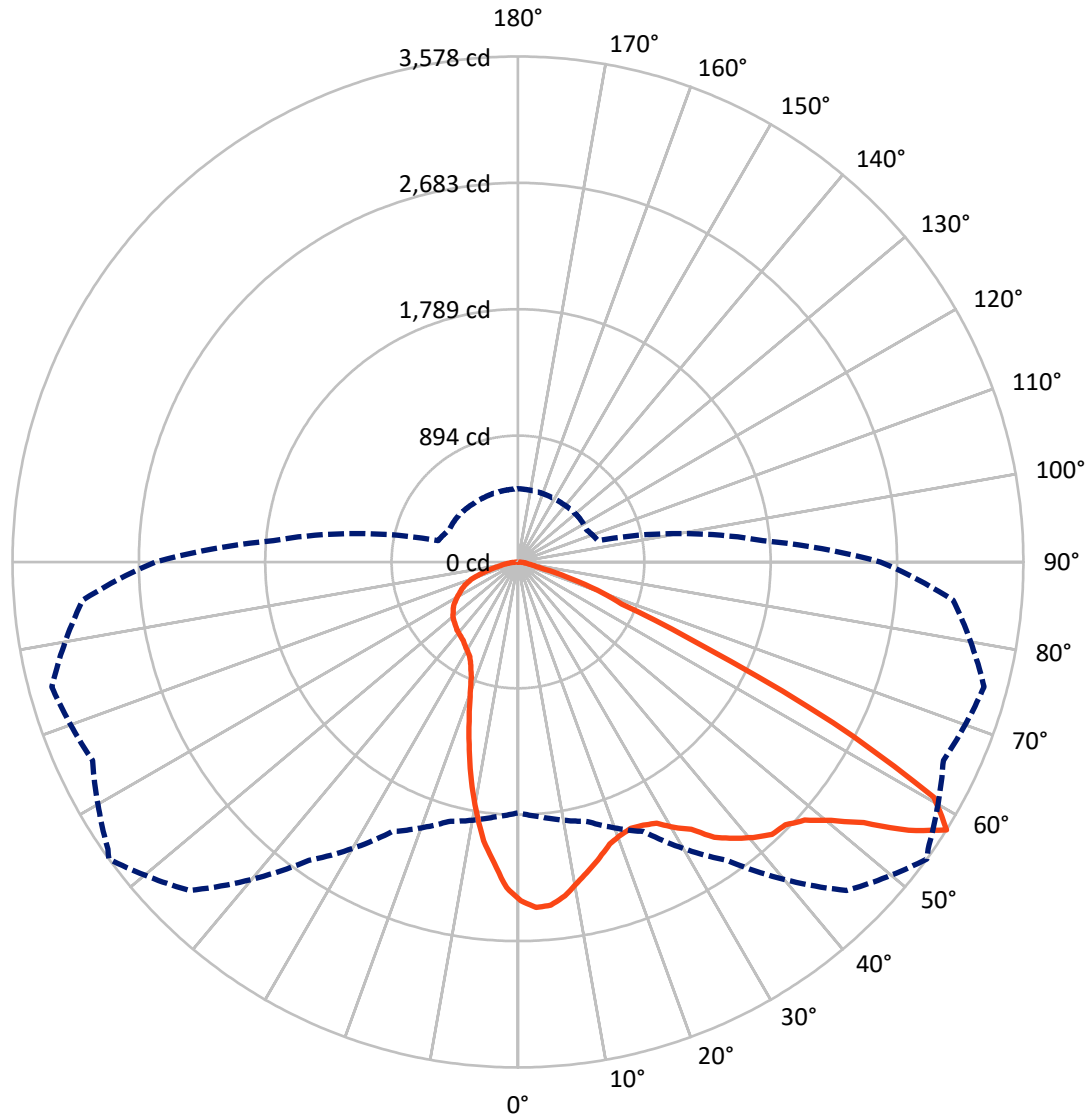
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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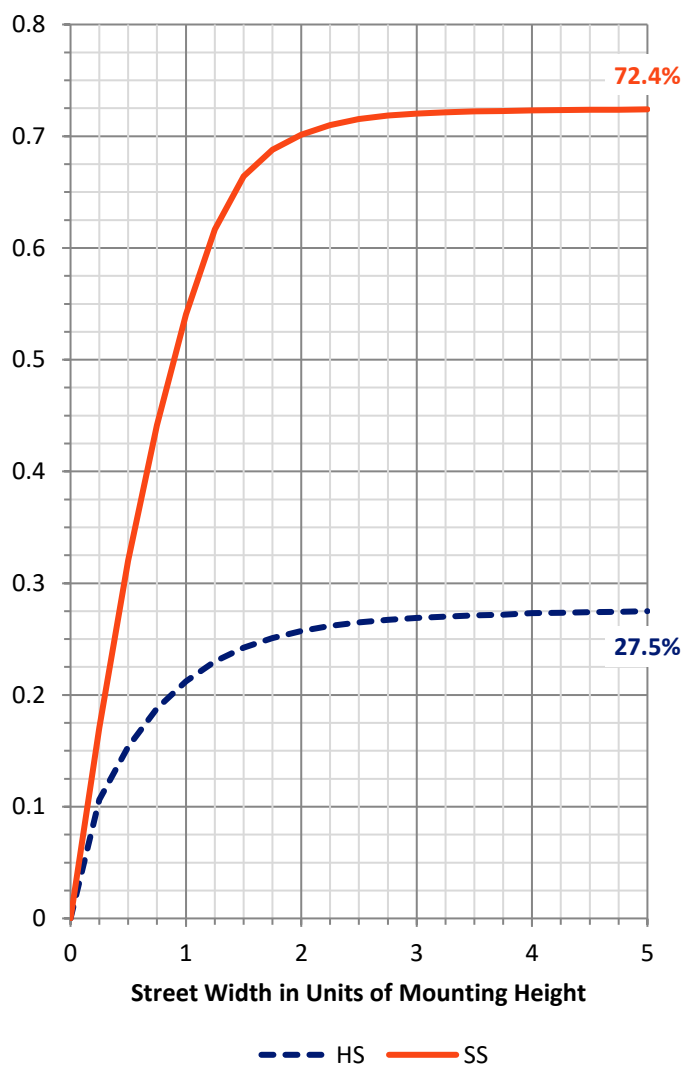
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.7	0.0	1706.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4462.3	0.0	4462.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	6169.0	0.0	6169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	3.4
10°-20°	478.8	7.8
20°-30°	672.7	10.9
30°-40°	940.5	15.2
40°-50°	1273.2	20.6
50°-60°	1550.8	25.1
60°-70°	807.7	13.1
70°-80°	207.0	3.4
80°-90°	31.6	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°	6169.0	100.0
0°-180°	6169.0	100.0

Coefficient of Utilization



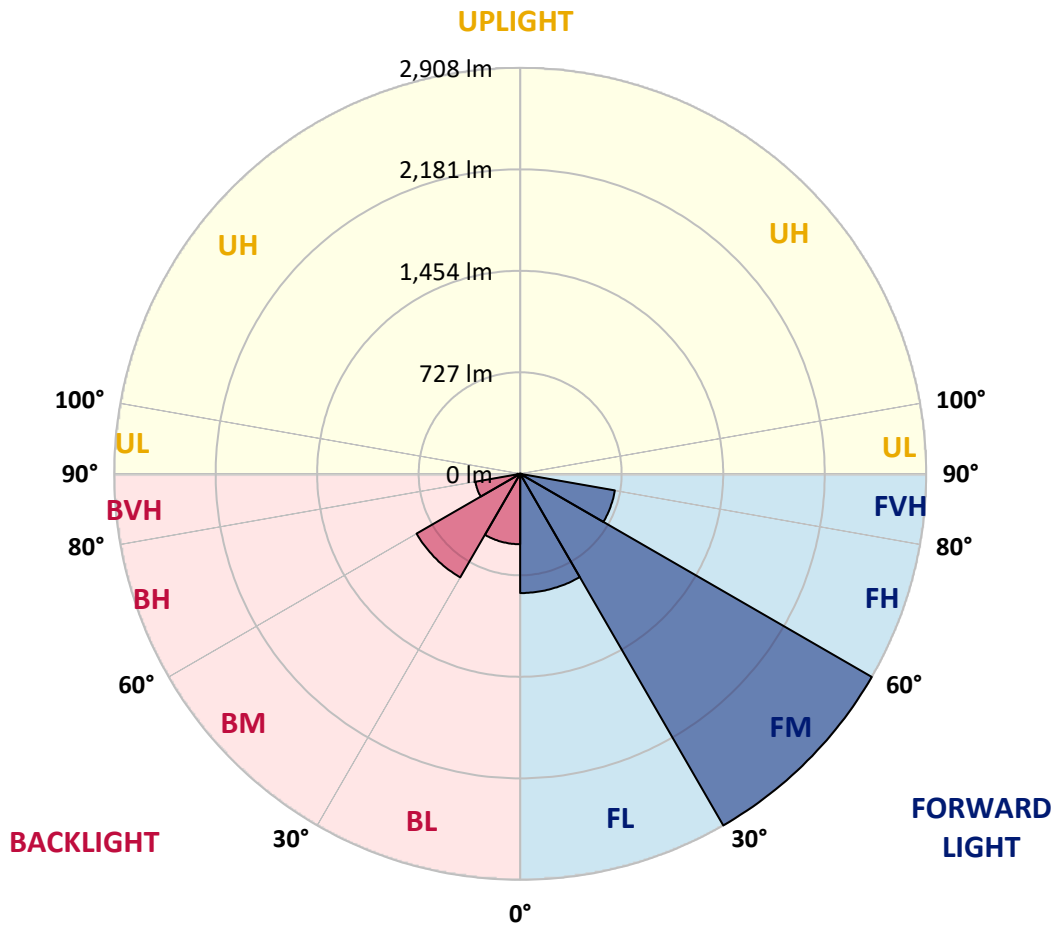
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.9	13.8			
FM (30°-60°)	2907.9	47.1			
FH (60°-80°)	688.6	11.2			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	504.4	8.2	B2/1000		
BM (30°-60°)	856.6	13.9	B1/1000		
BH (60°-80°)	326.1	5.3	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°	54°	55°	65°	75°	85°
0°	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8
2.5°	2466.0	2456.5	2458.1	2470.8	2454.9	2448.6	2448.6	2417.6	2420.0	2398.6	2393.1
5°	2408.9	2386.7	2401.8	2420.8	2424.0	2430.3	2440.6	2432.7	2410.5	2387.5	2350.2
7.5°	2259.8	2279.7	2285.2	2298.7	2327.2	2353.4	2385.9	2363.7	2362.9	2339.9	2317.7
10°	2129.0	2117.1	2147.3	2167.1	2214.7	2258.3	2308.2	2305.8	2317.7	2291.6	2253.5
12.5°	1999.0	1989.5	2003.7	2048.9	2115.5	2179.0	2238.4	2216.2	2279.7	2274.9	2193.2
15°	1861.0	1868.1	1888.8	1930.8	2018.0	2094.1	2169.5	2170.2	2226.5	2245.6	2136.2
17.5°	1764.3	1756.3	1782.5	1845.1	1922.9	2014.0	2099.7	2117.1	2203.6	2214.7	2118.7
20°	1692.1	1703.2	1737.3	1769.0	1858.6	1968.8	2065.6	2071.9	2198.8	2228.9	2091.0
22.5°	1674.7	1668.3	1679.4	1731.0	1804.7	1924.4	2047.3	2071.1	2198.0	2224.2	2038.6
25°	1656.4	1677.0	1676.3	1727.8	1781.7	1888.8	2062.4	2088.6	2240.0	2248.7	2045.8
27.5°	1697.7	1695.3	1717.5	1721.5	1788.1	1898.3	2094.1	2114.0	2309.8	2302.7	2051.3
30°	1738.9	1727.0	1740.5	1787.3	1818.2	1953.0	2181.3	2179.8	2400.2	2395.4	2068.8
32.5°	1789.6	1784.1	1792.8	1834.0	1886.4	2025.9	2255.1	2301.9	2492.2	2522.3	2129.0
35°	1799.2	1822.2	1842.8	1898.3	1972.8	2144.1	2393.9	2432.7	2598.4	2692.8	2244.0
37.5°	1859.4	1868.1	1916.5	2014.8	2083.0	2301.9	2481.9	2506.5	2695.2	2802.2	2365.3
40°	1923.6	1934.0	2006.9	2110.0	2203.6	2405.0	2564.3	2572.3	2726.1	2886.3	2444.6
42.5°	2010.9	2020.4	2092.5	2221.8	2347.1	2493.0	2637.3	2646.0	2723.7	2983.0	2570.7
45°	2101.3	2124.3	2209.1	2355.8	2468.4	2596.1	2653.9	2689.6	2745.9	3069.4	2673.0
47.5°	2228.1	2249.5	2319.3	2462.8	2594.5	2686.4	2730.9	2765.7	2799.0	3144.8	2738.8
50°	2362.9	2366.9	2451.7	2581.8	2678.5	2788.7	2874.4	2886.3	2868.8	3232.0	2850.6
52.5°	2462.0	2474.7	2540.5	2667.4	2811.7	2947.3	3064.7	3077.4	3043.3	3264.5	2888.6
55°	2297.9	2290.8	2397.8	2566.7	2901.3	3183.6	3354.1	3363.6	3170.1	3365.2	3013.1
57.5°	1776.2	1810.3	1901.4	2105.2	2577.8	3288.3	3577.7	3543.6	3322.4	3415.9	3092.4
60°	1290.9	1283.0	1344.0	1480.4	1942.7	2833.9	3382.6	3417.5	3197.9	3078.9	2550.1
62.5°	1051.4	1040.3	1045.1	1049.8	1253.6	1880.8	2504.1	2503.3	2462.8	2213.1	1719.9
65°	840.5	866.7	869.1	904.7	930.9	1123.6	1451.1	1528.8	1331.3	1091.9	792.1
67.5°	633.6	624.0	655.8	782.6	831.8	811.2	792.1	800.9	569.3	410.7	386.9
70°	373.5	369.5	407.6	545.5	685.1	644.7	597.1	597.9	390.9	287.0	319.6
72.5°	204.6	203.8	211.7	276.7	389.3	404.4	358.4	369.5	233.1	232.3	249.8
75°	114.2	111.8	109.4	122.1	140.3	148.3	151.4	153.0	160.2	179.2	186.3
77.5°	42.0	40.4	40.4	46.8	59.5	74.5	94.4	95.9	113.4	130.0	137.2
80°	14.3	15.9	21.4	29.3	39.6	53.1	64.2	65.8	80.1	91.2	93.6
82.5°	8.7	9.5	14.3	20.6	28.5	37.3	47.6	48.4	59.5	66.6	69.8
85°	4.0	4.8	7.9	12.7	18.2	24.6	25.4	25.4	24.6	25.4	23.8
87.5°	0.0	0.0	1.6	1.6	1.6	2.4	3.2	2.4	4.0	4.8	4.8
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°	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8
2.5°	2376.4	2367.7	2340.7	2316.9	2309.8	2278.1	2231.3	2236.9	2202.8	2218.6	2202.0
5°	2343.9	2314.6	2245.6	2216.2	2139.3	2104.4	2080.6	2021.2	1993.4	1987.9	1964.1
7.5°	2260.6	2242.4	2156.0	2076.7	1995.0	1925.2	1835.6	1774.6	1731.0	1719.1	1684.2
10°	2194.8	2154.4	2034.7	1914.1	1797.6	1676.3	1559.7	1468.5	1424.1	1372.6	1355.1
12.5°	2129.8	2068.8	1907.0	1752.4	1601.7	1448.7	1307.5	1196.5	1099.8	1076.8	1068.9
15°	2089.4	1983.1	1792.8	1606.5	1392.4	1192.6	1051.4	978.5	919.0	894.4	911.9
17.5°	2036.2	1912.5	1683.4	1435.2	1199.7	1015.7	897.6	852.4	831.0	833.4	826.2
20°	1969.6	1845.9	1539.9	1279.8	1027.6	880.9	813.5	796.9	800.1	805.6	803.2
22.5°	1922.1	1765.1	1436.0	1121.2	888.1	806.4	778.7	766.8	777.1	781.8	777.9
25°	1885.6	1696.1	1309.9	980.9	807.2	764.4	751.7	750.9	766.8	773.1	769.1
27.5°	1852.3	1631.8	1184.6	873.8	753.3	731.9	727.9	737.4	747.7	754.1	759.6
30°	1832.5	1582.7	1067.3	784.2	726.3	716.0	708.9	717.6	723.2	729.5	726.3
32.5°	1851.5	1547.8	953.9	733.5	704.1	693.8	703.3	697.8	707.3	712.8	704.1
35°	1911.0	1516.9	873.0	706.5	678.7	682.7	684.3	681.9	685.9	681.1	691.4
37.5°	1969.6	1505.8	798.5	683.5	666.9	666.9	665.3	660.5	668.4	666.9	671.6
40°	2044.2	1512.9	735.0	658.9	655.8	654.2	647.8	647.0	643.9	644.7	646.2
42.5°	2109.2	1528.8	698.6	643.1	645.4	648.6	636.7	627.2	631.2	623.2	623.2
45°	2178.2	1543.0	666.1	632.0	629.6	628.8	619.3	613.7	610.6	611.3	618.5
47.5°	2286.8	1563.7	641.5	616.9	618.5	606.6	604.2	597.1	600.2	605.0	605.8
50°	2363.7	1607.3	622.4	599.5	605.0	597.1	582.8	579.6	579.6	587.6	586.0
52.5°	2417.6	1668.3	604.2	580.4	582.8	576.5	571.7	564.6	559.8	570.9	576.5
55°	2582.6	1769.8	599.5	564.6	563.8	557.4	548.7	541.6	539.2	540.8	551.9
57.5°	2566.7	1738.1	584.4	536.8	535.2	526.5	517.8	515.4	514.6	516.2	519.4
60°	2083.8	1283.8	521.7	505.1	502.7	501.1	492.4	482.9	478.1	482.9	478.9
62.5°	1378.9	859.5	459.9	467.0	468.6	464.7	450.4	440.9	442.5	448.0	439.3
65°	677.2	505.1	417.1	436.1	437.7	426.6	413.1	402.0	396.5	401.2	397.3
67.5°	386.9	386.2	382.2	402.0	401.2	390.1	368.7	359.2	349.7	351.3	348.9
70°	328.3	334.6	342.5	354.4	353.6	341.0	315.6	308.4	295.0	293.4	289.4
72.5°	258.5	269.6	287.0	295.8	288.6	272.8	256.1	244.2	232.3	225.2	227.6
75°	191.9	207.7	217.3	222.8	211.7	203.0	189.5	175.2	161.0	154.6	152.2
77.5°	139.6	144.3	153.0	157.0	149.9	141.1	133.2	118.9	105.5	96.7	94.4
80°	97.5	100.7	107.0	107.0	107.0	103.1	92.8	78.5	69.8	61.8	60.3
82.5°	68.2	71.4	77.7	74.5	73.7	69.0	62.6	51.5	42.0	36.5	34.9
85°	23.8	26.2	31.7	38.1	40.4	39.6	35.7	28.5	22.2	18.2	16.7
87.5°	5.6	5.6	6.3	5.6	5.6	6.3	5.6	5.6	5.6	4.0	3.2
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)