

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: P945928

Luminaire Tested: **GALN-SB1D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9385 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

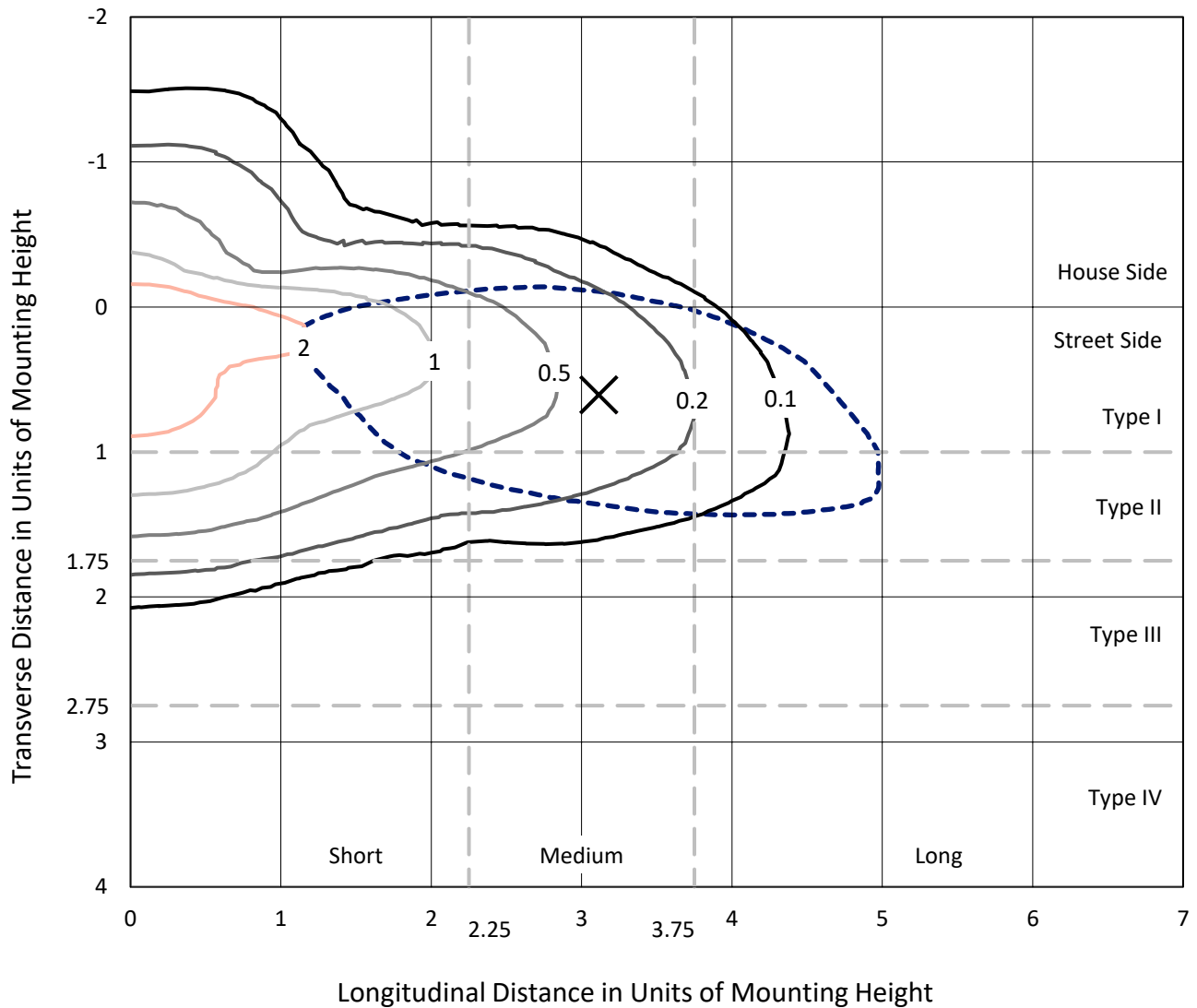
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

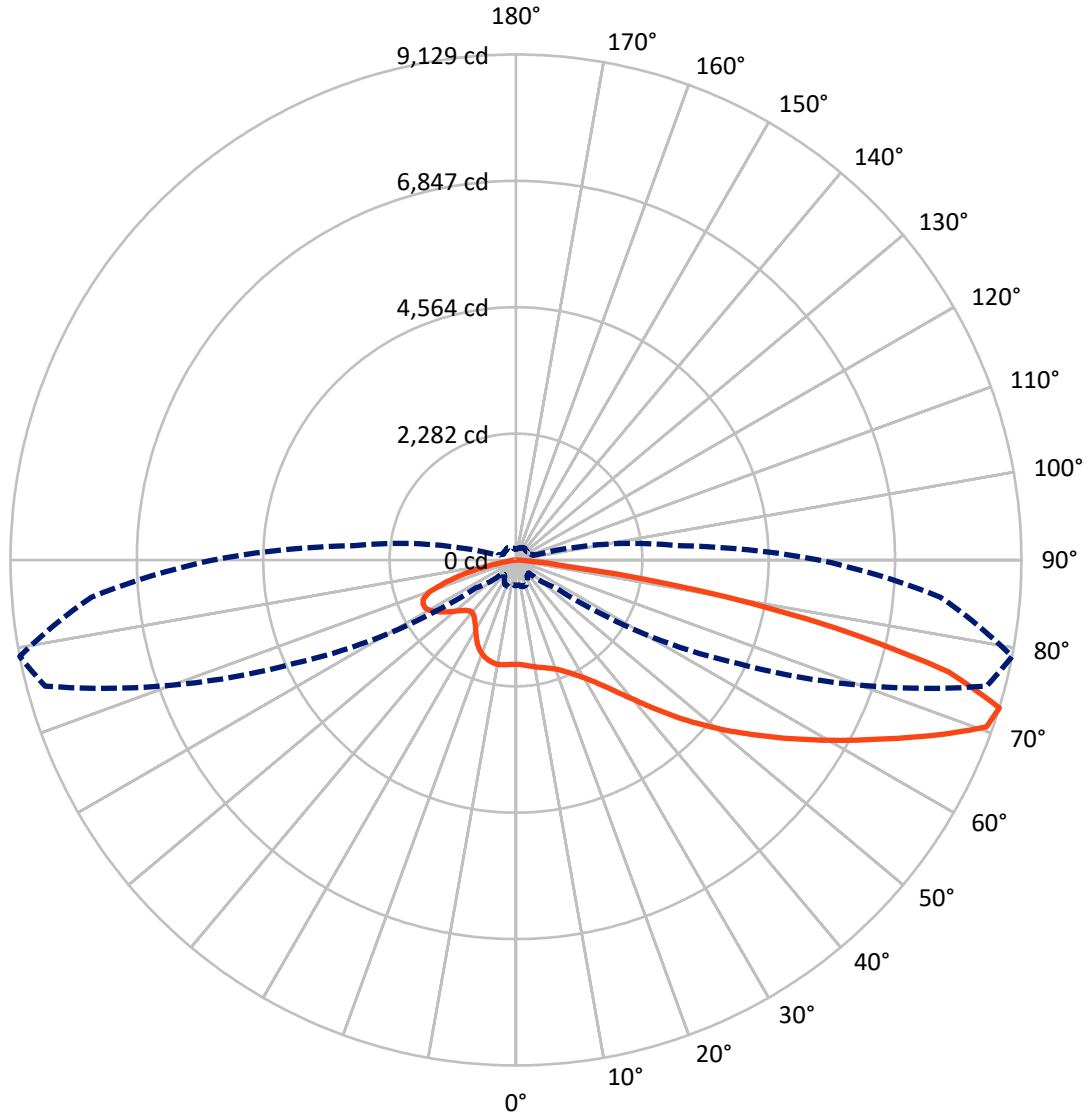
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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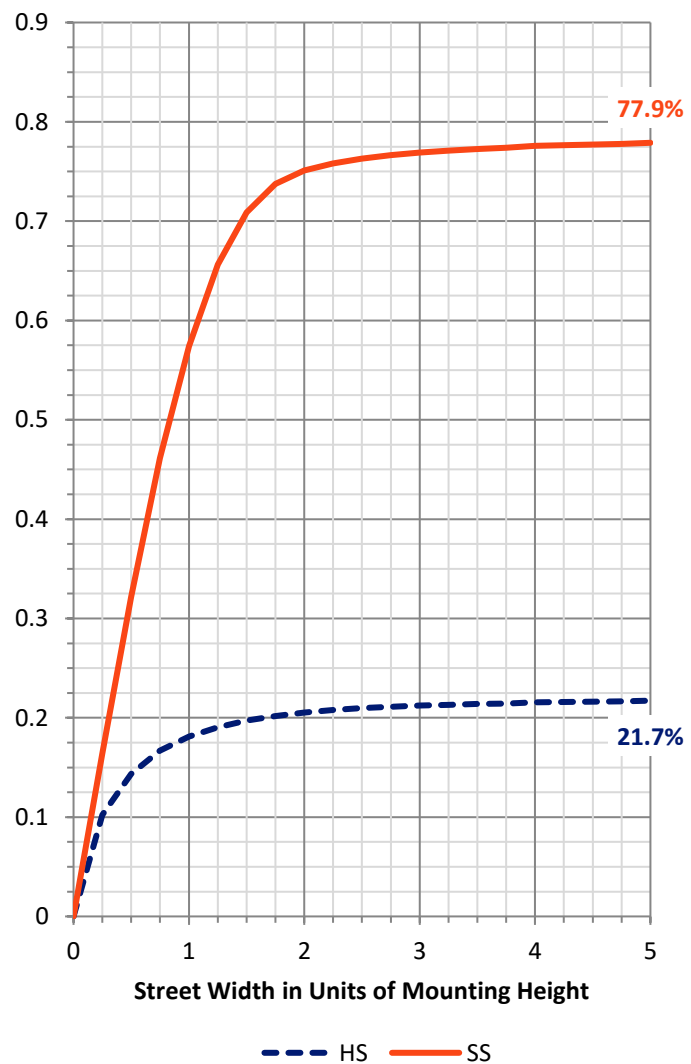
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.2	0.0	2065.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7319.8	0.0	7319.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	9385.0	0.0	9385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	1.8
10°-20°	447.1	4.8
20°-30°	721.4	7.7
30°-40°	1082.8	11.5
40°-50°	1536.0	16.4
50°-60°	1939.7	20.7
60°-70°	1970.1	21.0
70°-80°	1342.7	14.3
80°-90°	174.2	1.9
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°	9385.0	100.0
0°-180°	9385.0	100.0

Coefficient of Utilization



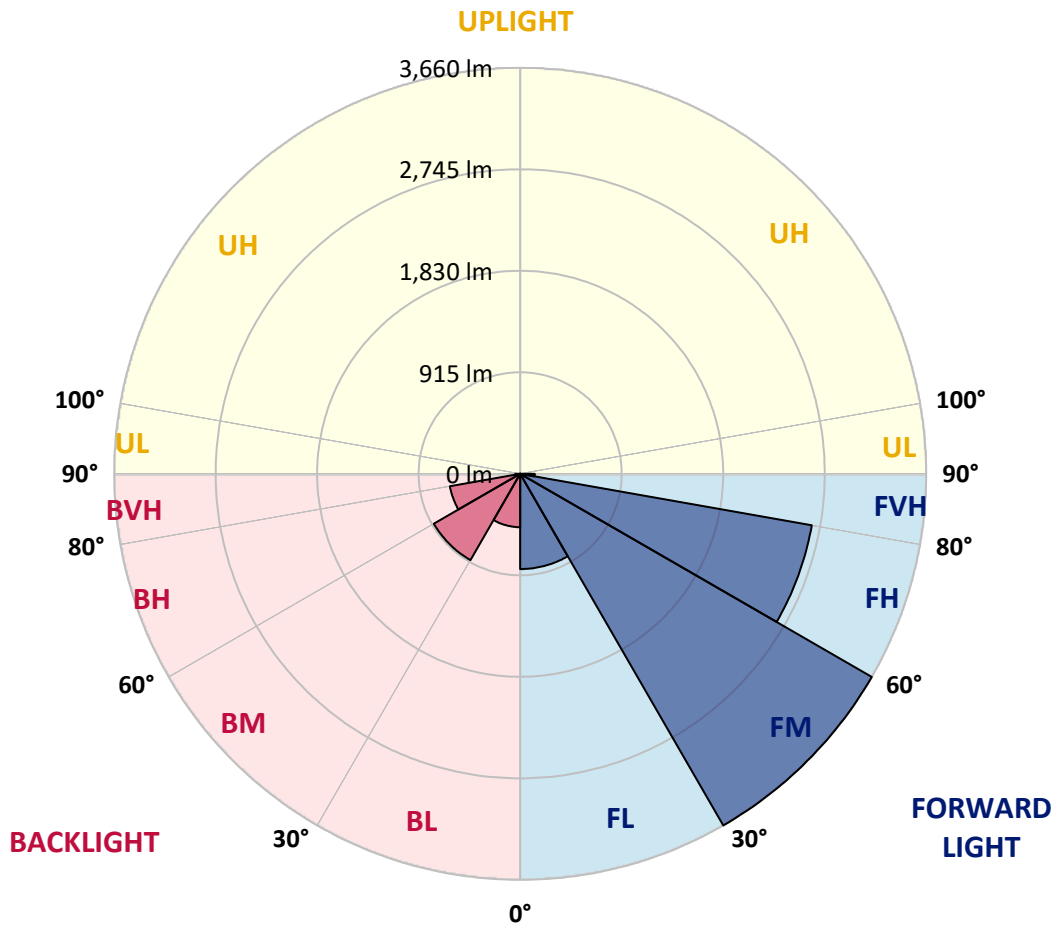
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.5	9.1			
FM (30°-60°)	3660.3	39.0			
FH (60°-80°)	2669.7	28.4			G2/5000
FVH (80°-90°)	131.2	1.4			G2/225
BL (0°-30°)	481.0	5.1	B1/500		
BM (30°-60°)	898.2	9.6	B1/1000		
BH (60°-80°)	643.0	6.9	B2/1000		G2/1000
BVH (80°-90°)	43.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9
2.5°	1884.9	1876.0	1881.5	1879.5	1882.0	1884.9	1885.9	1887.4	1892.4	1891.9	1891.4
5°	1881.0	1872.0	1879.5	1877.0	1883.5	1890.4	1896.4	1901.8	1909.8	1913.2	1908.3
7.5°	1872.5	1866.6	1874.0	1881.5	1893.4	1903.8	1912.2	1924.7	1936.1	1938.1	1941.5
10°	1823.4	1818.9	1836.3	1855.7	1888.4	1916.7	1935.1	1949.5	1961.9	1963.9	1968.8
12.5°	1772.3	1766.8	1786.2	1812.5	1865.6	1916.7	1955.4	1974.3	1985.2	1991.7	1999.1
15°	1763.8	1759.3	1770.3	1793.1	1837.3	1903.3	1969.3	2004.1	2013.5	2021.0	2023.9
17.5°	1804.5	1796.1	1800.5	1808.5	1834.3	1890.9	1980.3	2037.8	2052.2	2060.2	2060.2
20°	1898.8	1886.9	1880.0	1864.1	1859.6	1892.9	1979.3	2078.5	2097.4	2107.3	2109.8
22.5°	2024.4	2016.5	2001.6	1961.4	1917.7	1917.2	1998.1	2130.7	2165.9	2175.4	2169.4
25°	2176.3	2164.4	2145.6	2091.0	2007.1	1965.4	2029.9	2197.2	2256.3	2258.8	2241.4
27.5°	2351.1	2333.2	2307.4	2235.4	2122.2	2040.8	2078.5	2273.6	2360.0	2359.0	2323.3
30°	2535.3	2517.4	2490.1	2402.7	2260.2	2142.6	2146.1	2356.1	2483.1	2477.7	2416.6
32.5°	2669.8	2656.4	2650.9	2583.4	2419.1	2262.7	2223.5	2447.4	2635.0	2630.1	2544.7
35°	2773.1	2755.7	2762.1	2727.9	2592.4	2397.3	2318.3	2556.1	2819.7	2819.2	2713.0
37.5°	2875.3	2859.9	2865.4	2842.6	2752.7	2568.0	2434.0	2689.2	3048.6	3059.5	2916.5
40°	2968.6	2952.3	2974.1	2952.8	2877.3	2749.7	2565.5	2839.6	3313.7	3334.5	3162.8
42.5°	3024.7	3011.8	3048.1	3048.6	2985.5	2903.1	2710.0	3005.4	3620.5	3667.1	3465.6
45°	3044.1	3039.6	3094.2	3105.7	3081.3	2992.0	2840.1	3186.1	3951.1	4034.5	3810.6
47.5°	3023.3	3014.8	3090.3	3132.5	3151.8	3033.7	2947.8	3381.7	4288.7	4410.8	4186.9
50°	2918.0	2901.6	3013.8	3102.7	3171.7	3061.0	3056.5	3607.6	4672.4	4805.9	4565.2
52.5°	2728.9	2716.5	2844.0	2998.4	3128.0	3074.4	3178.6	3854.3	5036.8	5209.5	4952.9
55°	2487.1	2470.7	2611.2	2812.8	3019.3	3069.9	3300.8	4130.3	5466.7	5641.9	5353.5
57.5°	2103.9	2071.1	2248.8	2487.1	2842.1	3064.5	3427.8	4404.8	5903.5	6113.5	5780.9
60°	1544.9	1496.2	1714.2	1996.6	2495.6	3011.3	3585.2	4712.6	6427.8	6616.9	6247.6
62.5°	899.5	871.2	1013.7	1277.3	1881.0	2698.6	3673.6	5070.5	6943.1	7141.6	6706.3
65°	698.5	690.5	702.9	723.3	1047.0	2020.5	3401.0	5419.5	7598.3	7737.3	7184.3
67.5°	638.9	632.9	638.4	600.2	531.2	1125.4	2690.6	5507.9	8300.3	8384.7	7602.8
70°	567.9	561.0	578.8	546.1	418.0	511.8	1738.5	5187.2	8858.8	9017.1	7921.0
72.5°	462.7	454.7	496.4	481.5	352.0	328.6	873.2	4425.2	8800.2	9128.8	7693.2
75°	355.4	351.0	400.6	413.0	286.9	258.6	419.0	3289.3	7744.3	8075.4	6630.3
77.5°	276.0	272.5	297.9	343.0	231.3	200.6	257.6	2086.5	5836.0	5894.1	4569.1
80°	207.0	197.1	220.4	265.6	180.2	146.4	174.7	1216.7	3689.0	3343.9	1988.7
82.5°	129.6	124.6	144.0	177.2	127.1	100.8	113.7	672.2	1478.4	870.7	383.7
85°	74.0	72.0	78.4	101.3	69.0	58.1	65.0	296.9	270.1	185.7	115.7
87.5°	29.8	28.8	35.7	45.2	25.3	21.3	22.8	71.5	59.6	55.1	38.2
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°	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9
2.5°	1889.4	1889.4	1882.5	1871.5	1859.1	1851.2	1838.3	1834.8	1821.4	1817.4	1823.9
5°	1912.2	1908.3	1886.9	1856.1	1814.0	1775.2	1732.5	1705.7	1668.0	1654.6	1664.5
7.5°	1941.0	1930.1	1893.4	1825.9	1737.5	1650.6	1560.3	1491.8	1426.2	1402.9	1405.9
10°	1967.3	1952.0	1889.4	1771.3	1618.4	1467.9	1324.0	1223.2	1146.8	1115.5	1122.4
12.5°	1993.7	1965.4	1863.1	1680.4	1449.1	1245.0	1091.6	1013.2	966.1	928.3	940.7
15°	2018.5	1978.8	1822.4	1558.8	1263.4	1056.4	943.2	880.7	842.9	818.1	822.6
17.5°	2047.3	1990.2	1761.3	1404.4	1086.7	925.8	833.5	795.8	788.3	785.4	787.3
20°	2087.5	2000.6	1680.9	1231.6	956.6	821.6	773.9	770.5	770.0	768.5	773.4
22.5°	2130.7	2013.0	1574.7	1074.8	845.9	756.6	748.1	741.2	736.7	736.2	741.7
25°	2181.8	2017.0	1441.6	946.2	751.6	725.8	715.9	705.4	702.4	702.4	705.4
27.5°	2231.5	2003.6	1286.7	834.5	698.5	697.5	684.6	681.1	680.6	682.1	686.1
30°	2281.1	1978.3	1132.9	731.2	667.7	667.7	663.2	665.7	667.7	672.7	676.1
32.5°	2348.1	1951.5	1004.3	654.8	640.9	635.9	640.4	645.4	647.3	653.8	659.3
35°	2446.4	1932.6	902.0	613.1	613.1	606.6	609.1	608.1	603.7	600.7	607.6
37.5°	2576.5	1931.6	817.6	593.7	589.8	588.8	589.3	582.8	565.4	544.6	545.1
40°	2732.8	1958.4	752.6	580.3	577.3	583.3	580.3	563.0	515.3	479.1	478.1
42.5°	2942.8	2034.9	710.9	563.9	572.9	580.3	568.4	508.3	476.1	451.8	450.8
45°	3190.1	2159.0	689.5	546.6	564.4	573.4	515.8	489.5	463.7	434.4	432.4
47.5°	3470.0	2315.3	684.6	530.2	545.6	551.0	493.5	481.5	452.2	420.5	418.0
50°	3774.8	2500.5	698.0	510.8	518.3	499.4	486.0	475.1	444.8	413.5	410.1
52.5°	4090.1	2704.5	724.8	484.5	491.0	470.1	483.0	473.6	440.3	398.1	395.2
55°	4399.9	2910.1	750.6	453.7	463.2	443.8	474.6	467.6	420.0	372.3	369.8
57.5°	4714.6	3114.6	775.9	426.4	436.4	418.5	461.2	451.8	397.1	348.5	347.5
60°	5041.7	3313.2	787.8	400.1	407.1	395.2	440.8	424.4	371.3	324.2	322.7
62.5°	5348.0	3478.5	768.5	373.8	378.3	373.3	414.0	392.2	345.5	296.9	296.4
65°	5655.3	3576.8	708.9	348.0	349.0	346.5	376.3	357.4	315.2	273.0	270.1
67.5°	5933.8	3631.9	614.1	320.2	317.7	316.7	341.0	319.7	285.9	249.2	246.2
70°	5992.9	3491.9	469.1	287.4	287.4	285.0	302.3	280.5	253.7	223.9	222.9
72.5°	5473.6	2937.4	333.1	250.2	254.2	249.2	263.6	245.2	220.9	201.1	195.1
75°	4413.8	2154.0	242.3	212.0	218.9	210.5	223.9	211.0	190.1	189.6	170.8
77.5°	3032.7	1331.9	175.7	174.7	179.7	168.8	184.2	177.2	158.4	149.9	140.5
80°	1294.2	531.2	128.1	135.0	135.0	125.1	143.0	145.0	128.6	124.6	124.6
82.5°	257.6	150.9	89.9	92.8	87.4	84.4	101.3	112.2	154.9	172.3	172.8
85°	77.4	55.6	54.1	50.6	44.7	45.2	59.6	112.7	139.0	79.4	68.5
87.5°	21.3	13.9	14.4	11.4	9.4	12.4	20.4	85.4	46.7	19.9	16.9
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)