

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: P452474

Luminaire Tested: **GALN-SA3B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13386 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): 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



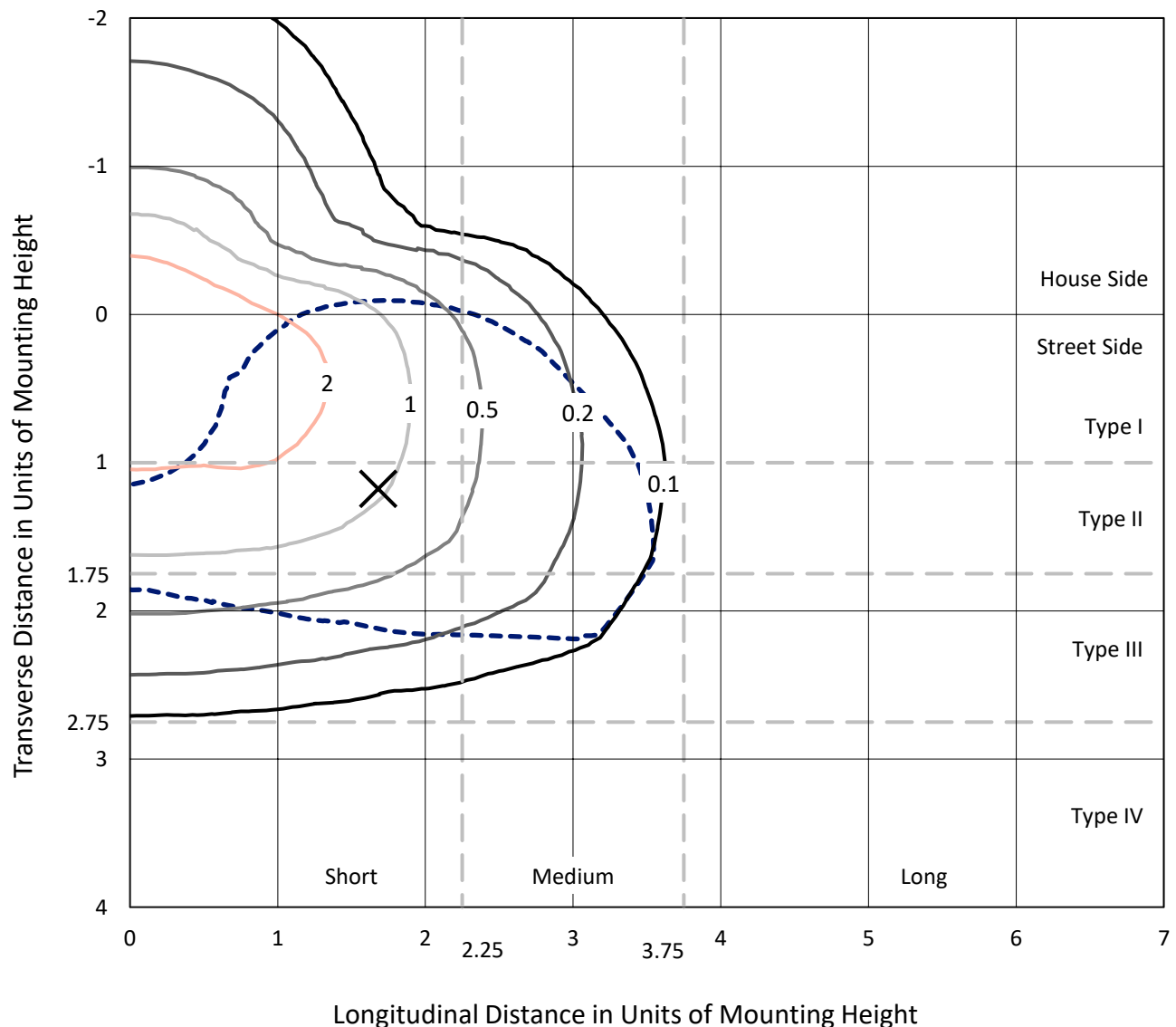
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



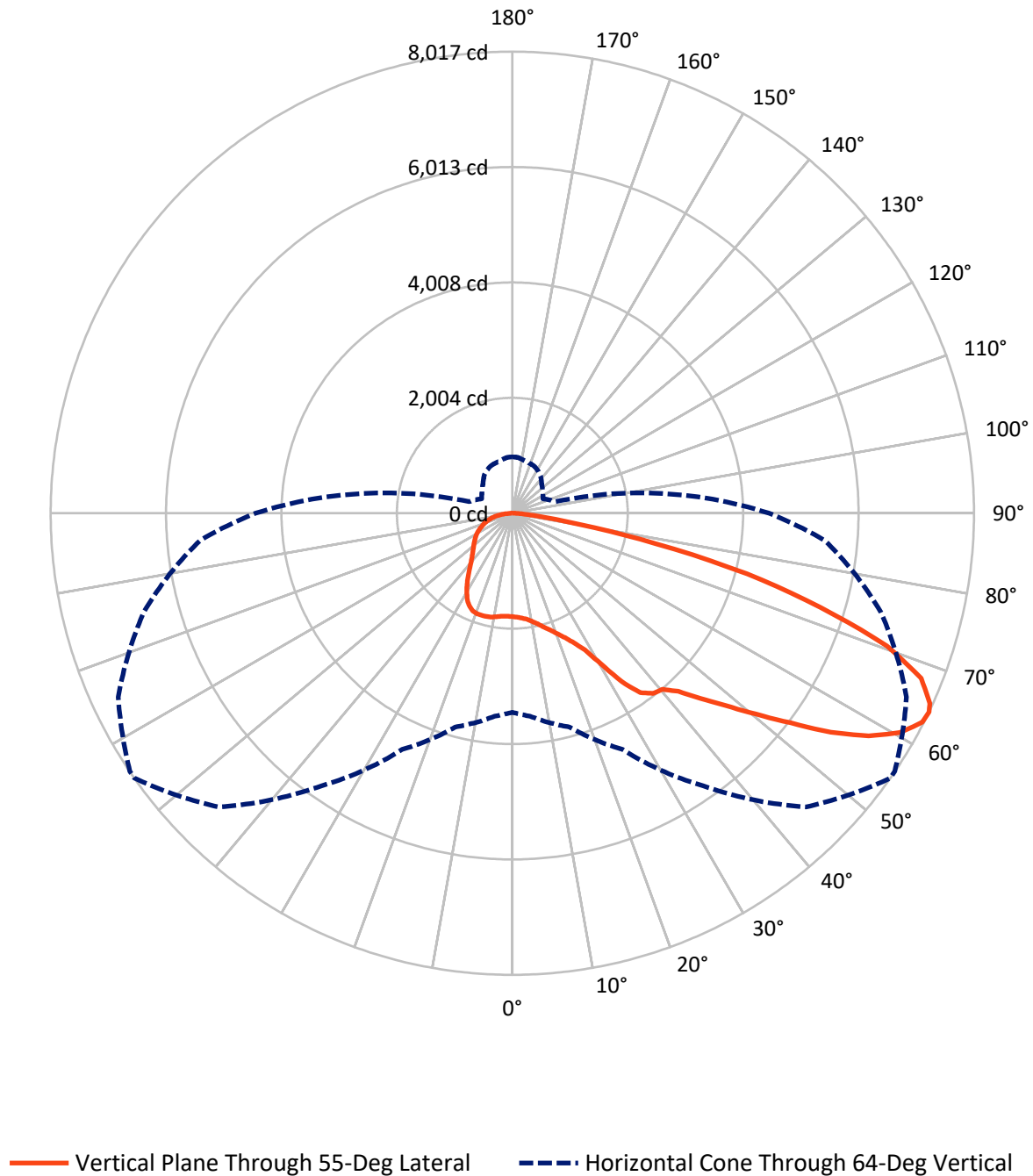
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3251.7	0.0	3251.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10134.3	0.0	10134.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	13386.0	0.0	13386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	1.3
10°-20°	551.2	4.1
20°-30°	981.4	7.3
30°-40°	1509.9	11.3
40°-50°	2140.4	16.0
50°-60°	3098.2	23.1
60°-70°	3206.3	24.0
70°-80°	1501.5	11.2
80°-90°	222.3	1.7
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°	13386.0	100.0
0°-180°	13386.0	100.0

Coefficient of Utilization



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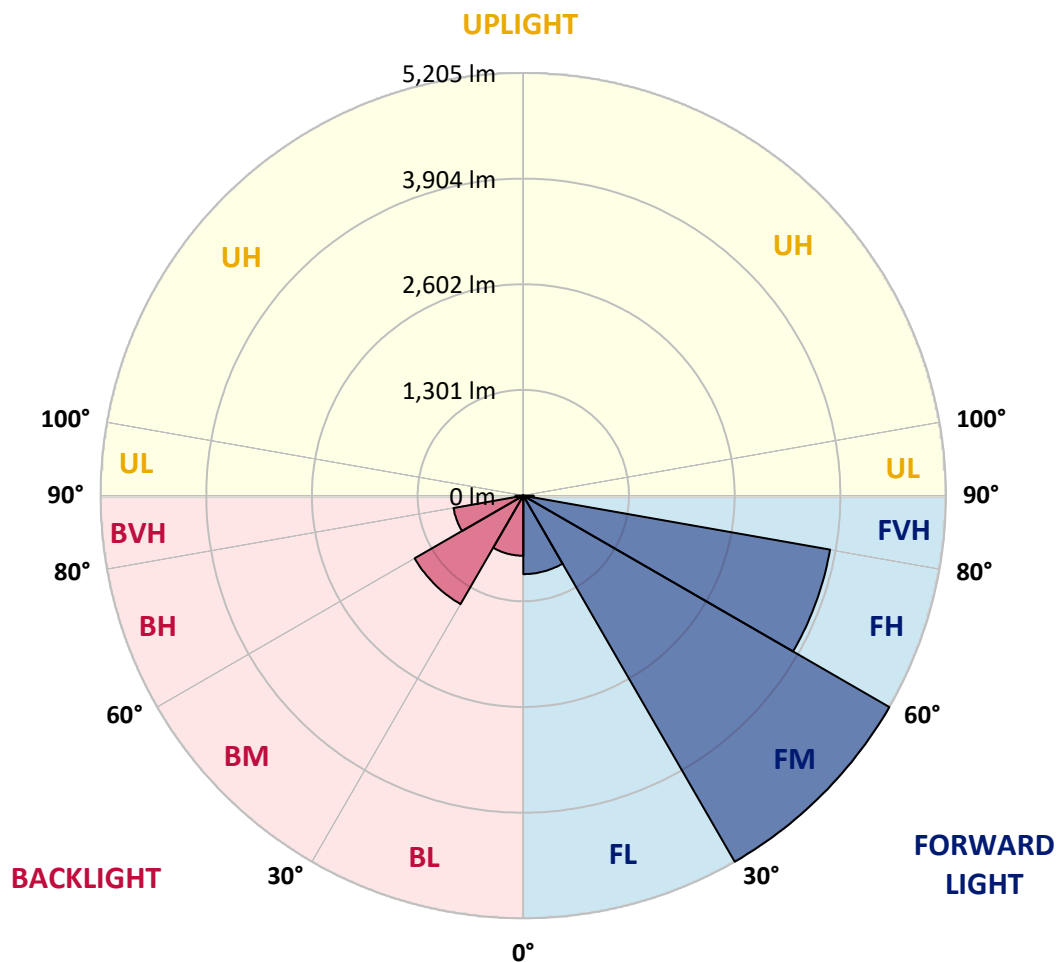
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.7	7.2			
FM	(30°-60°)	5204.8	38.9			
FH	(60°-80°)	3835.5	28.7			G2/5000
FVH	(80°-90°)	127.3	1.0			G2/225
BL	(0°-30°)	740.6	5.5	B2/1000		
BM	(30°-60°)	1543.7	11.5	B2/2500		
BH	(60°-80°)	872.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	95.0	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0
2.5°	1816.1	1815.4	1817.6	1815.4	1816.9	1811.7	1809.4	1810.9	1808.7	1805.0	1798.2
5°	1838.5	1837.8	1838.5	1835.5	1837.0	1834.1	1828.8	1830.3	1826.6	1818.4	1808.7
7.5°	1876.6	1873.6	1873.6	1872.9	1869.9	1865.4	1861.7	1860.2	1856.4	1846.0	1831.1
10°	1925.8	1925.8	1926.6	1920.6	1924.3	1916.1	1912.4	1911.7	1899.0	1885.5	1864.6
12.5°	1990.7	1994.5	1992.2	1989.3	1987.8	1984.8	1972.1	1975.1	1960.9	1937.8	1912.4
15°	2071.3	2077.3	2073.6	2072.1	2068.3	2057.2	2051.9	2049.7	2031.0	1997.5	1963.9
17.5°	2178.0	2170.6	2167.6	2163.9	2148.2	2140.0	2131.0	2129.5	2113.1	2073.6	2021.3
20°	2271.3	2281.7	2275.8	2272.0	2256.4	2240.7	2234.0	2231.8	2217.6	2174.3	2090.7
22.5°	2382.5	2384.7	2387.0	2378.0	2370.5	2358.6	2346.7	2342.9	2337.7	2292.9	2190.7
25°	2501.1	2510.1	2502.6	2493.7	2484.7	2484.0	2495.1	2493.7	2491.4	2448.1	2323.5
27.5°	2694.4	2702.6	2704.8	2695.1	2660.8	2663.8	2689.1	2697.4	2731.7	2660.0	2494.4
30°	2803.3	2811.5	2830.2	2866.7	2921.2	2969.0	3030.1	3048.8	3081.6	2946.6	2697.4
32.5°	2870.5	2873.4	2907.0	2974.9	3138.3	3316.7	3483.1	3489.8	3510.7	3321.1	2883.1
35°	2976.4	2978.7	3005.5	3080.1	3271.9	3568.9	3826.3	3834.5	3817.3	3437.5	2969.7
37.5°	3107.0	3113.0	3130.1	3192.1	3421.1	3780.0	3968.8	3962.8	3810.6	3530.1	3122.7
40°	3297.3	3297.3	3277.1	3360.7	3578.6	3900.9	4018.8	4008.3	3968.1	3797.9	3355.5
42.5°	3465.1	3462.2	3509.9	3566.6	3775.5	4087.4	4228.5	4245.6	4312.0	4134.4	3620.3
45°	3683.8	3697.2	3724.1	3827.0	4110.6	4406.1	4588.1	4604.5	4698.5	4530.7	3930.0
47.5°	3904.6	3909.1	3993.4	4130.7	4525.4	4838.1	4987.3	5014.2	5100.0	4994.0	4263.5
50°	4061.3	4103.9	4238.9	4455.3	4953.0	5364.9	5481.3	5513.3	5664.8	5498.4	4652.3
52.5°	4227.0	4268.8	4433.7	4763.5	5444.0	5903.6	6046.8	6068.5	6225.9	6008.8	5050.0
55°	4368.7	4407.5	4594.8	5036.6	5834.9	6453.5	6713.2	6687.8	6763.2	6402.0	5356.7
57.5°	4391.9	4423.2	4659.0	5211.2	6128.9	6925.1	7297.4	7312.3	7225.0	6696.0	5609.6
60°	4212.8	4277.0	4547.8	5192.5	6261.0	7253.4	7733.2	7743.6	7495.9	6846.7	5710.3
62.5°	3895.7	3889.0	4216.5	4892.5	6075.9	7328.0	7989.8	7978.6	7601.8	6774.3	5612.6
64°	3457.7	3538.3	3844.2	4523.9	5777.5	7213.1	8016.7	8010.7	7551.1	6623.6	5446.2
65°	3190.6	3186.1	3488.3	4222.5	5480.5	7040.0	7968.9	7960.7	7445.1	6488.6	5317.1
67.5°	2303.4	2313.8	2612.3	3258.5	4455.3	6363.2	7657.8	7627.2	7027.3	6040.9	4826.1
70°	1395.3	1401.3	1635.6	2161.6	3198.0	5144.0	6902.7	6904.2	6387.8	5372.3	4107.6
72.5°	735.0	750.6	844.6	1227.4	1942.2	3609.2	5599.9	5732.7	5484.2	4585.1	3245.0
75°	408.9	411.1	477.5	605.1	990.9	2019.8	4209.1	4247.1	4341.9	3690.5	2399.6
77.5°	311.9	316.4	337.3	391.0	539.5	936.4	2547.4	2738.4	3060.0	2601.8	1369.2
80°	252.9	257.4	275.3	307.4	358.9	444.0	1183.4	1286.4	1637.8	1155.0	534.2
82.5°	197.0	194.0	217.1	238.0	261.2	262.6	485.7	537.2	667.1	496.9	231.3
85°	146.2	146.2	164.9	160.4	168.6	153.7	214.1	236.5	267.1	211.2	107.4
87.5°	58.2	64.2	108.2	97.0	75.4	60.4	79.1	83.6	92.5	82.8	44.8
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°	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0
2.5°	1799.0	1801.2	1796.0	1792.3	1790.8	1788.5	1786.3	1787.0	1790.0	1793.0	1792.3
5°	1807.9	1808.7	1799.7	1795.3	1792.3	1789.3	1789.3	1791.5	1797.5	1802.0	1802.0
7.5°	1830.3	1830.3	1817.6	1809.4	1805.0	1799.7	1798.2	1799.0	1803.5	1809.4	1810.2
10°	1865.4	1862.4	1846.0	1833.3	1825.1	1812.4	1801.2	1795.3	1797.5	1801.2	1801.2
12.5°	1907.9	1899.7	1878.8	1861.7	1841.5	1817.6	1794.5	1782.6	1781.8	1785.6	1784.1
15°	1953.4	1944.5	1915.4	1884.0	1849.0	1813.9	1786.3	1769.1	1755.7	1752.0	1760.2
17.5°	2006.4	1987.8	1947.5	1904.2	1852.0	1806.4	1763.2	1728.1	1704.2	1697.5	1699.7
20°	2070.6	2046.0	1991.5	1923.6	1849.7	1779.6	1712.4	1665.4	1626.6	1614.7	1616.2
22.5°	2159.4	2116.8	2037.0	1933.3	1831.1	1728.8	1635.6	1574.4	1527.4	1508.7	1519.9
25°	2260.1	2213.8	2080.3	1931.1	1782.6	1647.5	1544.5	1464.7	1422.2	1394.6	1400.5
27.5°	2398.9	2316.8	2126.5	1910.9	1713.2	1548.3	1428.9	1353.5	1314.7	1300.5	1307.3
30°	2576.5	2450.4	2176.5	1856.4	1603.5	1422.9	1312.5	1263.2	1240.1	1222.2	1228.2
32.5°	2704.8	2544.4	2187.7	1764.7	1484.9	1308.8	1233.4	1196.8	1171.5	1154.3	1158.0
35°	2796.6	2624.2	2182.5	1652.0	1361.0	1214.7	1170.7	1140.9	1099.8	1062.5	1055.8
37.5°	2919.7	2724.2	2144.5	1528.9	1238.6	1151.3	1120.0	1064.8	1005.8	955.8	953.6
40°	3108.5	2841.4	2063.1	1384.1	1134.2	1104.3	1066.3	994.6	931.2	890.9	887.9
42.5°	3303.2	2949.6	1952.7	1231.9	1048.3	1055.1	1008.8	937.9	899.1	873.0	870.0
45°	3541.3	3066.7	1833.3	1099.8	984.9	1008.8	958.8	917.8	894.6	877.5	873.0
47.5°	3798.7	3186.8	1699.0	981.2	931.2	966.3	937.9	919.3	906.6	894.6	889.4
50°	4076.2	3321.1	1572.9	885.7	882.7	922.2	935.7	929.0	921.5	917.8	913.3
52.5°	4380.7	3458.4	1466.9	818.5	840.2	890.9	936.4	941.6	941.6	939.4	936.4
55°	4586.6	3553.9	1359.5	764.1	796.9	865.5	934.9	955.1	962.5	959.6	956.6
57.5°	4738.8	3606.2	1224.4	717.1	760.3	840.9	926.7	956.6	964.0	967.8	966.3
60°	4770.2	3557.7	1047.6	667.8	720.8	805.1	896.9	934.2	943.9	967.0	969.3
62.5°	4629.2	3408.4	871.5	619.3	672.3	750.6	856.6	908.8	928.2	964.0	967.8
64°	4456.0	3241.3	773.8	588.7	640.9	720.0	836.4	902.1	927.5	975.2	978.2
65°	4329.2	3119.7	712.6	569.3	620.8	699.9	825.2	904.3	934.2	992.4	996.9
67.5°	3862.1	2701.1	589.5	523.8	573.0	665.6	827.5	923.0	932.7	999.1	998.4
70°	3195.8	2150.4	494.0	482.0	526.8	638.0	818.5	893.1	893.9	937.9	927.5
72.5°	2392.9	1589.3	428.3	438.7	475.3	572.3	773.0	852.9	840.2	846.1	835.7
75°	1643.8	1051.3	368.6	392.5	421.6	505.9	708.8	774.5	754.4	746.9	739.4
77.5°	877.5	581.3	306.7	347.0	366.4	437.2	618.6	682.0	661.1	632.0	622.3
80°	355.2	273.8	247.0	287.3	298.5	352.2	514.8	554.4	538.7	488.0	471.6
82.5°	178.3	164.2	194.0	226.1	226.8	251.5	382.8	420.1	385.0	323.1	308.9
85°	93.3	96.3	133.6	158.9	140.3	135.8	229.8	254.4	233.5	203.0	182.8
87.5°	33.6	38.8	70.1	69.4	49.2	26.1	50.7	24.6	13.4	8.2	10.4
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)