

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: P648395

Luminaire Tested: **GALN-SA4B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17725.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

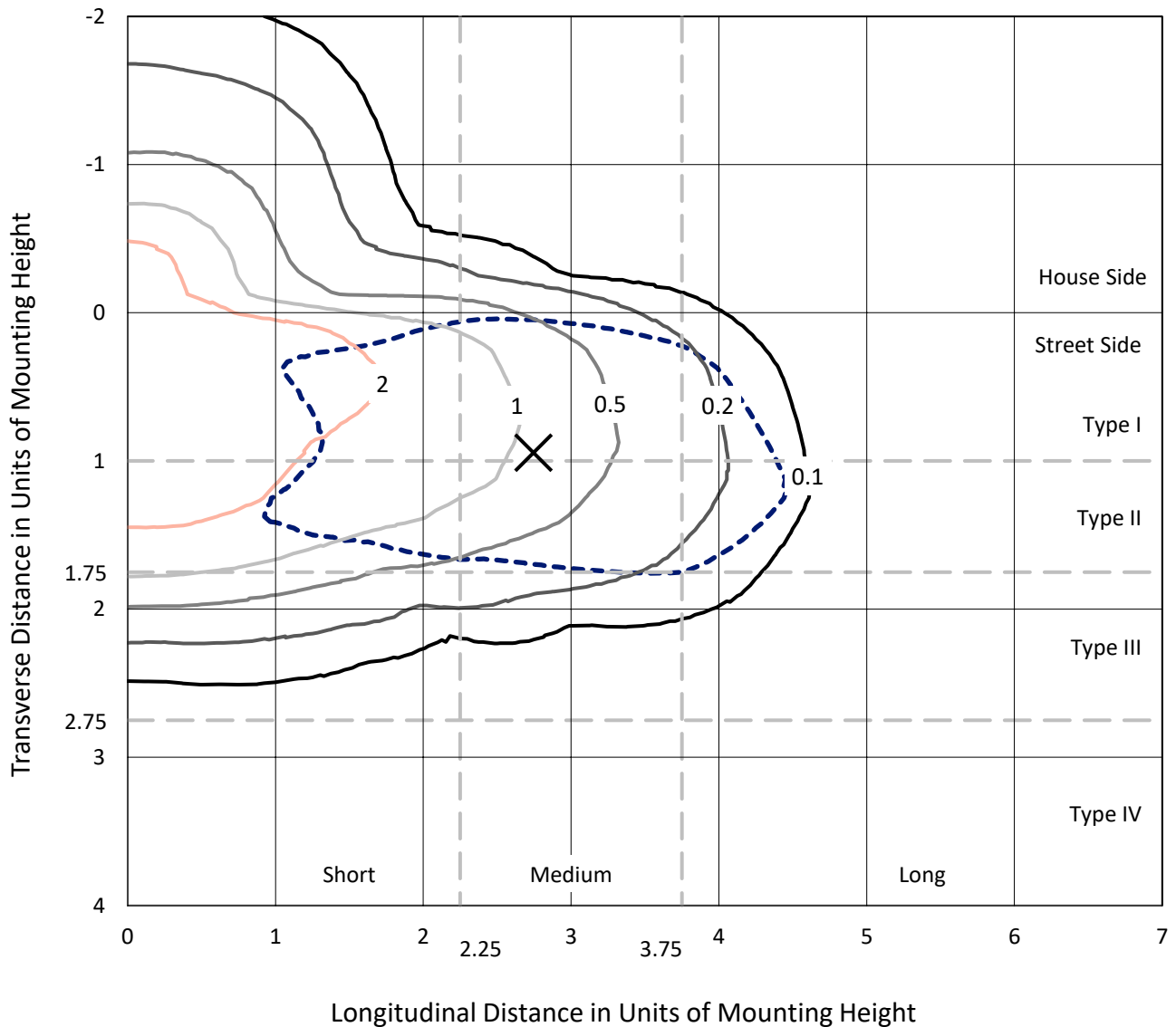
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

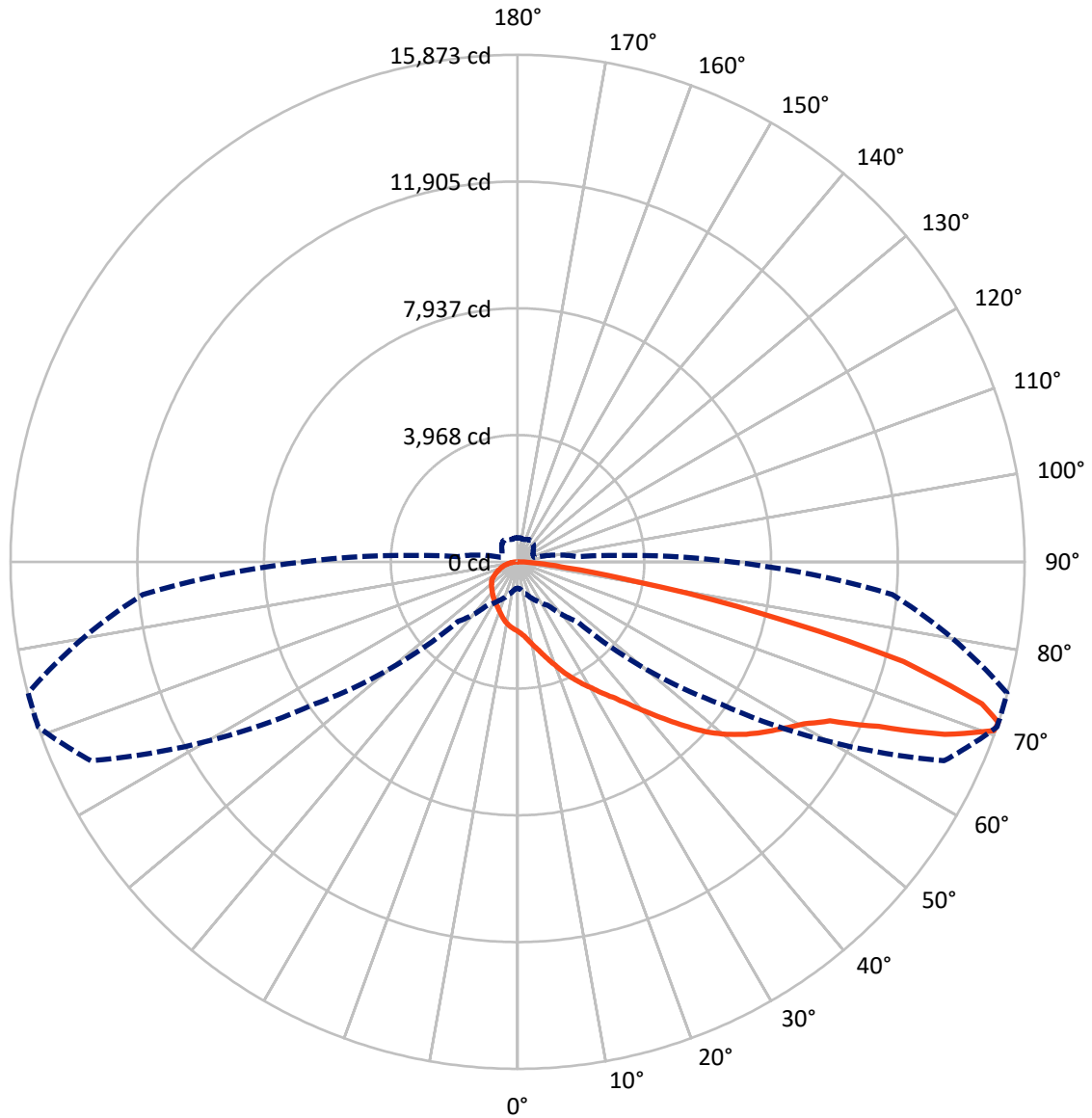
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3187.9	0.0	3187.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	14537.7	0.0	14537.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	17725.6	0.0	17725.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.2
10°-20°	709.7	4.0
20°-30°	1240.2	7.0
30°-40°	1844.6	10.4
40°-50°	2717.8	15.3
50°-60°	3805.0	21.5
60°-70°	4255.8	24.0
70°-80°	2599.6	14.7
80°-90°	334.4	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°	17725.6	100.0
0°-180°	17725.6	100.0

Coefficient of Utilization

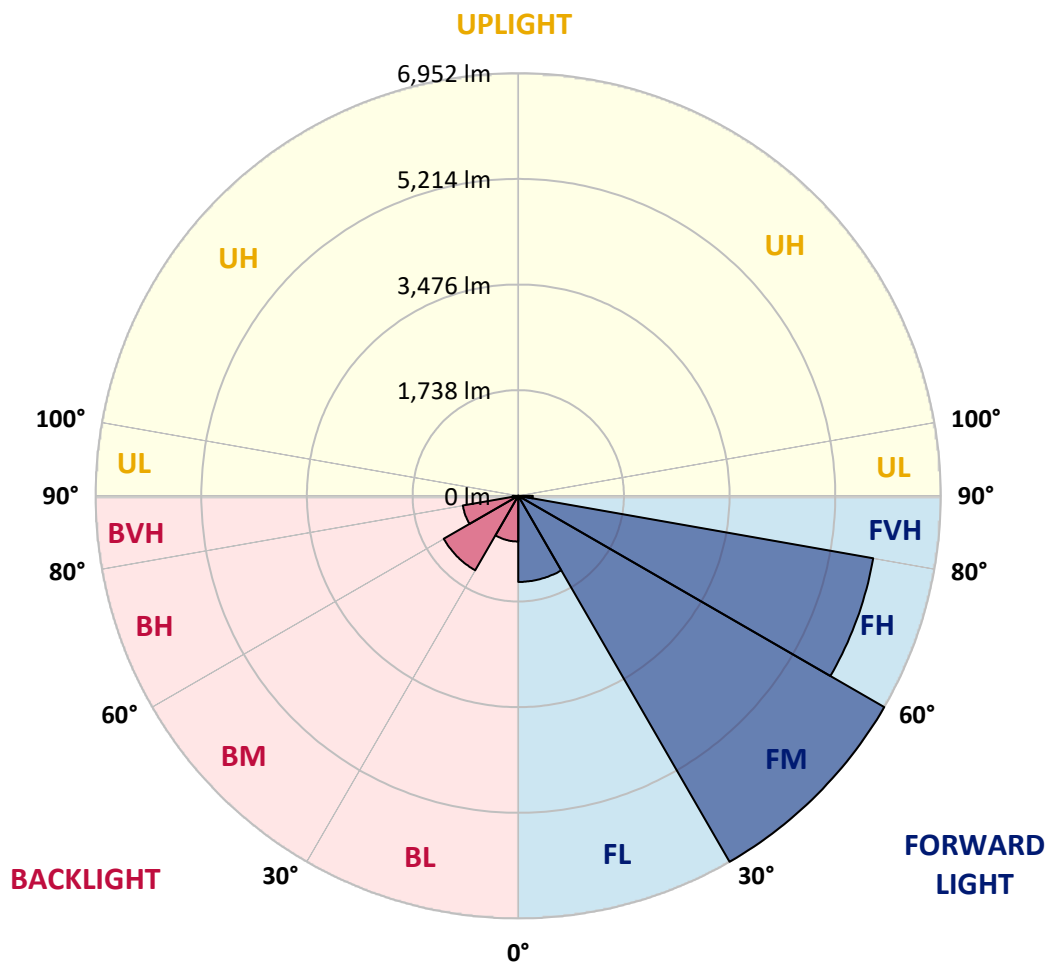


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.3	8.0			
FM (30°-60°)	6951.6	39.2			
FH (60°-80°)	5929.1	33.4			G3/7500
FVH (80°-90°)	240.6	1.4			G3/500
BL (0°-30°)	752.0	4.2	B2/1000		
BM (30°-60°)	1415.9	8.0	B2/2500		
BH (60°-80°)	926.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	93.8	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5
2.5°	2415.1	2403.4	2404.4	2387.8	2366.4	2343.0	2309.9	2280.6	2257.3	2243.7	2203.8
5°	2676.2	2664.5	2649.9	2613.9	2598.3	2540.8	2467.7	2401.5	2350.8	2322.5	2242.7
7.5°	2887.6	2884.7	2880.8	2860.4	2820.4	2740.5	2678.2	2563.2	2488.2	2434.6	2298.2
10°	3018.2	3023.0	3026.0	3029.9	3013.3	2971.4	2885.7	2740.5	2645.1	2576.9	2370.3
12.5°	3084.4	3089.3	3105.8	3141.9	3164.3	3159.4	3089.3	2947.1	2815.5	2725.9	2447.3
15°	3125.3	3133.1	3162.4	3210.1	3285.1	3332.8	3298.8	3167.2	3023.0	2916.8	2538.9
17.5°	3170.1	3178.9	3211.1	3279.3	3377.6	3480.9	3517.9	3405.0	3248.1	3121.4	2641.1
20°	3195.5	3207.2	3253.0	3342.6	3457.6	3607.6	3730.4	3670.9	3499.5	3359.1	2759.1
22.5°	3236.4	3246.2	3285.1	3380.6	3517.9	3706.0	3942.7	3930.0	3779.1	3597.8	2888.6
25°	3347.5	3363.1	3382.6	3440.0	3572.5	3806.3	4119.0	4206.7	4049.9	3847.3	3007.4
27.5°	3556.9	3569.6	3568.6	3576.4	3651.4	3893.0	4272.0	4480.5	4318.8	4099.6	3122.4
30°	3795.6	3800.4	3804.4	3786.8	3803.4	3981.7	4412.3	4751.3	4589.6	4358.7	3222.7
32.5°	4085.9	4095.6	4062.5	4017.7	4004.1	4113.2	4528.2	5022.2	4910.1	4621.7	3322.1
35°	4428.9	4454.2	4387.0	4308.1	4252.6	4302.2	4684.1	5298.9	5238.4	4957.9	3453.7
37.5°	4820.5	4851.7	4789.3	4634.4	4555.5	4569.1	4887.7	5640.8	5653.5	5340.8	3649.5
40°	5141.0	5182.0	5183.9	4964.7	4844.9	4860.5	5145.9	6009.1	6154.2	5814.2	3880.4
42.5°	5352.4	5392.4	5434.3	5305.7	5180.0	5268.7	5446.9	6408.5	6717.4	6389.0	4202.8
45°	5584.3	5620.4	5643.7	5585.3	5515.1	5745.0	5810.3	6833.2	7317.4	7031.0	4555.5
47.5°	5853.2	5893.2	5915.6	5860.0	5833.7	6163.0	6202.0	7229.8	7958.5	7654.5	4945.2
50°	6211.7	6241.9	6230.3	6195.2	6189.3	6483.6	6578.0	7601.0	8487.5	8325.8	5349.5
52.5°	6657.9	6693.9	6706.6	6656.9	6634.5	6712.5	6881.0	7939.0	8968.8	8902.6	5781.1
55°	6927.7	6985.2	7178.2	7256.1	7309.7	7008.6	7207.4	8312.2	9400.4	9510.5	6244.8
57.5°	6581.9	6656.0	7087.6	7477.3	7980.9	7749.0	7670.1	8701.9	9832.0	10099.8	6800.1
60°	5738.2	5754.8	6311.1	7029.1	8042.3	8700.9	8635.6	9321.5	10299.6	10694.1	7531.8
62.5°	3980.7	4015.8	4673.4	5819.1	7284.3	9043.8	10278.1	10391.2	10969.8	11583.6	8604.4
65°	2052.7	2006.9	2606.1	3657.2	5491.7	8229.3	11609.0	12358.2	12423.4	12974.9	10114.5
67.5°	1263.6	1284.0	1564.6	2135.6	3247.1	5980.8	11469.6	14761.6	14417.7	14682.7	11516.4
70°	948.9	974.2	1167.1	1461.3	1979.7	3419.6	9224.1	15344.1	15824.4	15756.2	11943.1
71°	825.2	851.5	1052.2	1329.8	1663.0	2639.2	7771.4	14734.3	15873.2	15861.5	11782.3
72.5°	703.4	720.0	876.8	1126.2	1401.9	1850.1	5838.6	13214.5	15196.1	15584.8	11208.6
75°	552.4	565.1	635.2	859.3	1103.8	1136.0	3133.1	9907.0	12480.9	13221.3	9331.2
77.5°	450.1	458.8	494.9	638.1	851.5	804.7	1643.5	6448.5	7819.2	8564.5	5496.7
80°	357.5	367.3	388.7	432.5	638.1	573.9	784.3	3267.6	3777.1	3769.3	2194.0
82.5°	277.7	280.5	305.9	317.6	436.4	407.2	424.8	1383.4	1532.5	1583.1	792.1
85°	175.4	184.2	270.8	243.6	261.1	238.7	209.5	549.4	677.1	667.4	316.6
87.5°	53.6	56.5	91.6	103.3	116.0	104.2	77.0	161.7	197.8	214.3	78.9
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°	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5
2.5°	2188.1	2177.4	2139.4	2108.2	2079.0	2046.8	2019.6	2011.8	2004.9	2002.1	2001.1
5°	2208.6	2176.4	2101.4	2040.0	1991.3	1946.5	1918.3	1905.6	1892.9	1892.9	1896.8
7.5°	2237.8	2179.3	2063.4	1971.8	1910.4	1868.6	1848.1	1846.2	1849.1	1852.0	1853.0
10°	2270.0	2177.4	2007.9	1893.9	1839.3	1819.8	1820.9	1837.4	1853.0	1864.7	1866.6
12.5°	2301.2	2165.7	1942.6	1820.9	1785.8	1789.7	1817.0	1854.0	1884.1	1900.7	1901.7
15°	2336.2	2147.2	1863.7	1751.6	1740.0	1770.2	1820.9	1877.3	1923.1	1950.5	1953.4
17.5°	2365.4	2116.1	1780.9	1684.5	1699.0	1754.6	1824.7	1897.8	1953.4	1987.4	1993.3
20°	2398.6	2076.1	1695.2	1620.2	1662.1	1737.1	1817.0	1895.9	1953.4	1986.5	1994.2
22.5°	2424.9	2019.6	1613.3	1567.6	1629.0	1715.6	1790.6	1854.0	1900.7	1918.3	1929.9
25°	2435.6	1948.5	1536.4	1524.7	1602.6	1680.6	1731.2	1767.2	1781.9	1779.9	1784.8
27.5°	2429.7	1866.6	1470.1	1490.6	1569.5	1626.0	1651.3	1648.4	1622.1	1597.7	1609.5
30°	2405.4	1769.2	1414.6	1455.5	1526.6	1557.8	1553.9	1515.9	1466.2	1420.4	1423.3
32.5°	2361.5	1664.0	1363.0	1415.6	1466.2	1479.9	1453.6	1403.8	1332.7	1273.3	1264.5
35°	2324.5	1563.7	1317.2	1369.8	1405.8	1399.0	1373.7	1309.3	1245.0	1192.4	1183.7
37.5°	2318.7	1477.9	1273.3	1318.1	1338.6	1328.8	1297.7	1243.1	1219.8	1179.8	1174.9
40°	2349.9	1417.5	1228.5	1263.6	1273.3	1265.6	1231.4	1200.3	1221.7	1211.9	1211.9
42.5°	2434.6	1385.4	1188.6	1209.0	1216.8	1222.7	1198.3	1172.0	1198.3	1153.5	1138.9
45°	2569.0	1386.3	1152.5	1155.5	1178.8	1199.2	1182.7	1143.7	1130.1	1040.5	1022.9
47.5°	2766.8	1419.4	1123.3	1104.8	1146.7	1180.8	1157.4	1100.9	1040.5	981.0	970.4
50°	2997.7	1478.9	1097.0	1052.2	1103.8	1157.4	1139.9	1073.6	1011.2	975.2	968.4
52.5°	3253.9	1553.9	1064.8	993.7	1051.2	1146.7	1143.7	1069.7	984.0	959.6	953.8
55°	3570.6	1627.9	1024.9	925.5	1004.4	1137.9	1133.0	1037.6	978.1	960.6	958.6
57.5°	3938.8	1735.1	967.4	856.4	950.9	1101.8	1091.1	1018.1	958.6	945.9	945.0
60°	4532.2	1901.7	885.6	793.0	896.3	1038.6	1052.2	984.9	927.5	924.6	923.5
62.5°	5312.5	2135.6	800.9	727.7	833.0	956.7	995.7	940.1	894.3	909.0	910.9
65°	6390.0	2332.3	713.2	672.2	762.8	877.8	942.1	898.3	857.3	885.6	885.6
67.5°	7092.4	2336.2	633.3	614.7	691.7	811.5	885.6	848.5	809.6	857.3	859.3
70°	6946.3	2046.8	567.0	554.4	622.6	740.4	823.2	794.0	749.2	792.1	776.5
71°	6710.5	1886.1	540.7	531.0	595.2	706.3	794.0	769.6	724.8	753.1	744.3
72.5°	6334.5	1637.7	497.8	499.8	554.4	663.4	753.1	727.7	682.9	698.5	695.6
75°	5354.4	1430.1	425.7	434.5	476.4	590.4	671.3	651.8	606.0	606.0	603.1
77.5°	3347.5	999.6	353.7	358.5	404.3	505.7	576.8	560.2	516.3	501.7	497.8
80°	1249.0	516.3	276.7	282.5	310.8	398.5	477.4	461.8	416.9	400.4	384.8
82.5°	472.5	259.2	203.6	198.7	228.9	304.0	374.1	355.6	320.6	280.5	268.9
85°	178.3	128.6	124.7	120.8	134.4	180.2	231.8	228.0	191.0	162.7	159.8
87.5°	46.7	41.9	48.7	36.0	38.0	34.1	35.1	14.6	6.8	2.9	2.0
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)