

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: P451633

Luminaire Tested: **GALN-SA2C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451633
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-SA2C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12768 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

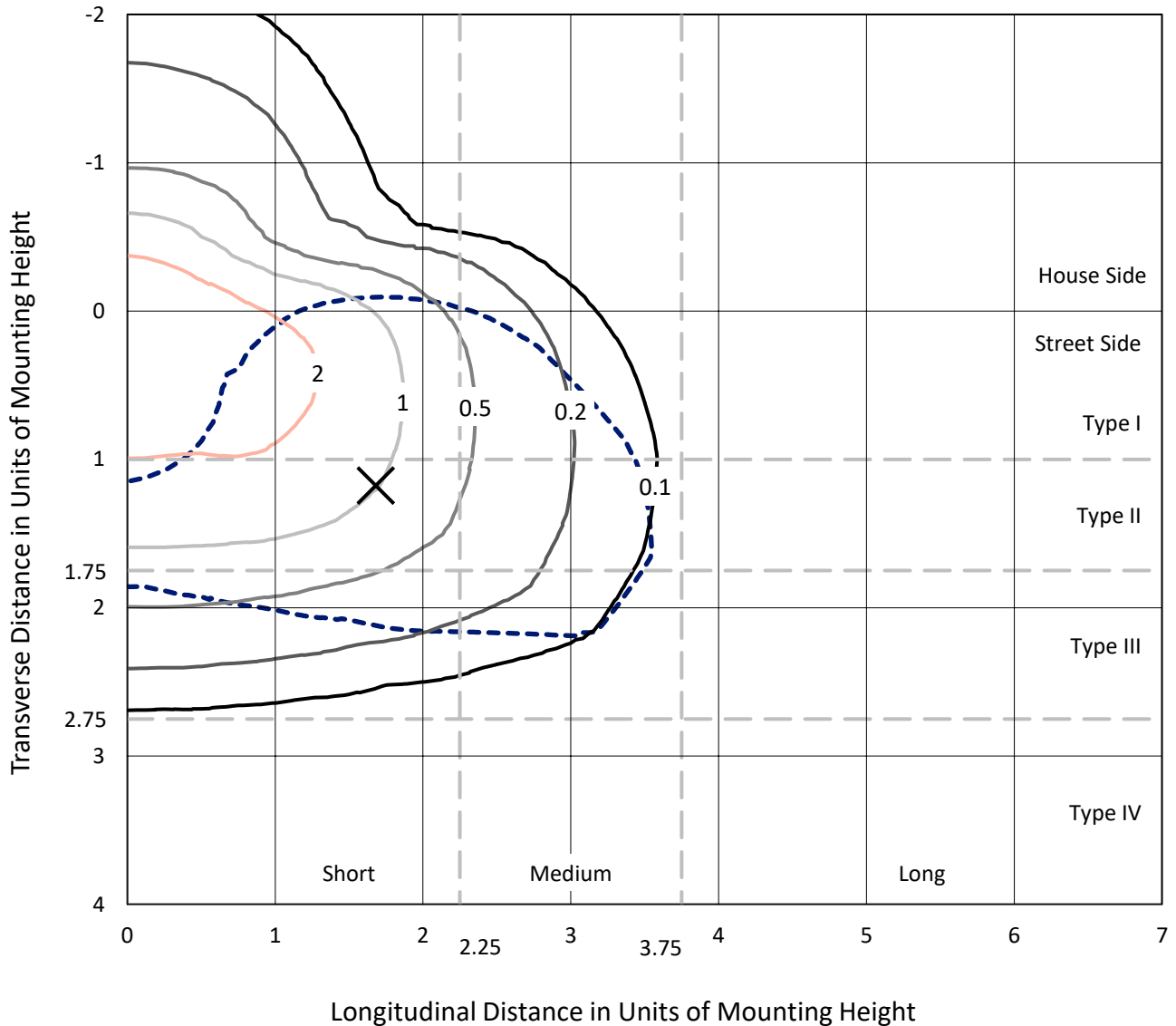
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

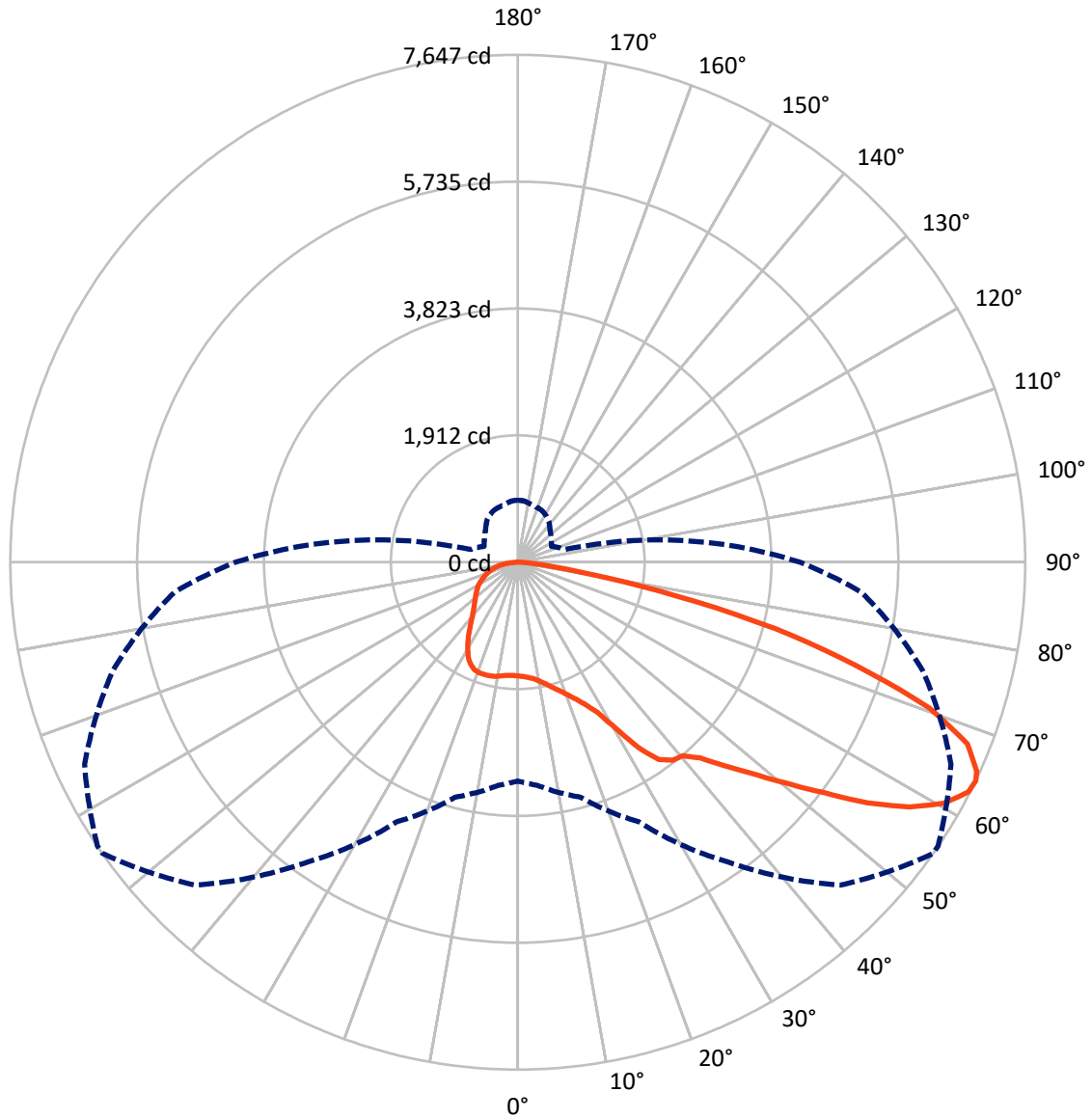
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3101.6	0.0	3101.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9666.4	0.0	9666.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	12768.0	0.0	12768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.3
10°-20°	525.8	4.1
20°-30°	936.0	7.3
30°-40°	1440.2	11.3
40°-50°	2041.6	16.0
50°-60°	2955.2	23.1
60°-70°	3058.3	24.0
70°-80°	1432.2	11.2
80°-90°	212.0	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°	12768.0	100.0
0°-180°	12768.0	100.0

Coefficient of Utilization



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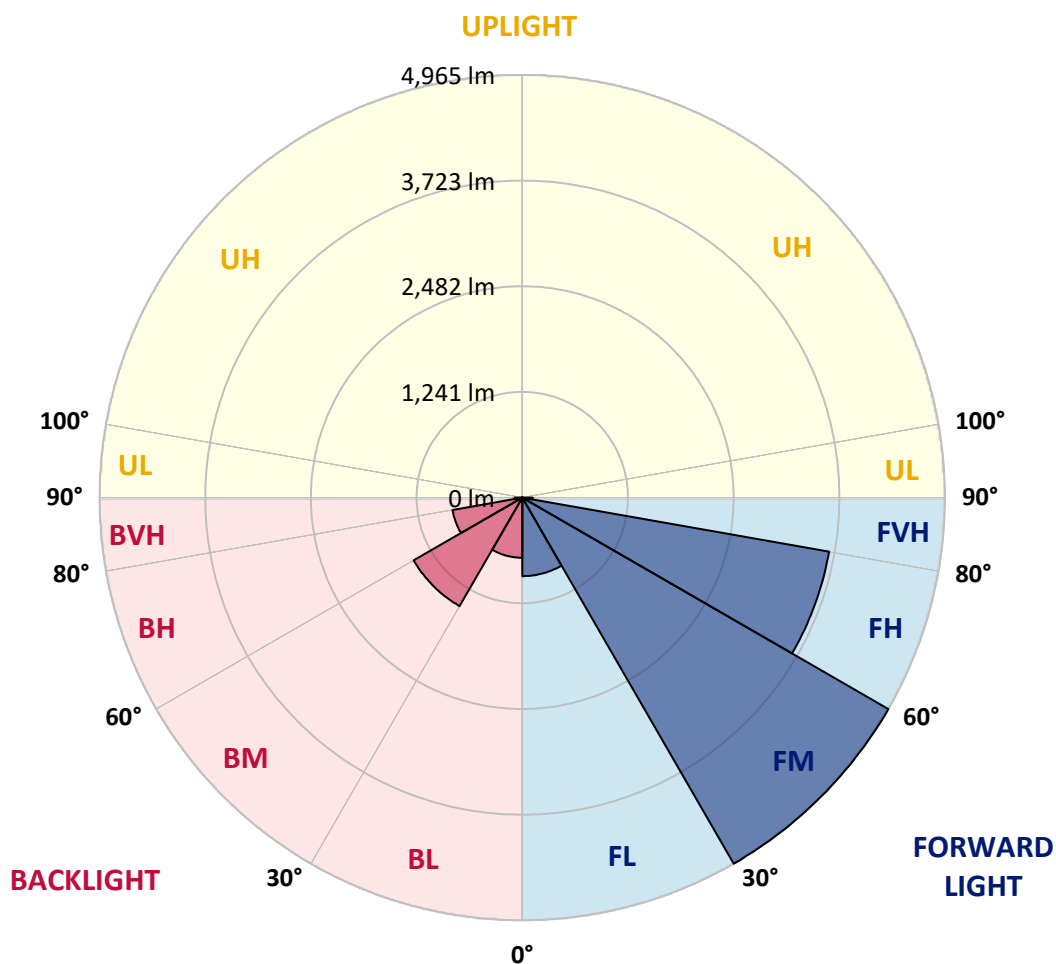
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.1	7.2			
FM	(30°-60°)	4964.5	38.9			
FH	(60°-80°)	3658.4	28.7			G2/5000
FVH	(80°-90°)	121.4	1.0			G2/225
BL	(0°-30°)	706.4	5.5	B2/1000		
BM	(30°-60°)	1472.5	11.5	B2/2500		
BH	(60°-80°)	832.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	90.6	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°	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1
2.5°	1732.3	1731.6	1733.7	1731.6	1733.0	1728.0	1725.9	1727.3	1725.2	1721.6	1715.2
5°	1753.6	1752.9	1753.6	1750.8	1752.2	1749.4	1744.4	1745.8	1742.3	1734.4	1725.2
7.5°	1789.9	1787.1	1787.1	1786.4	1783.5	1779.3	1775.7	1774.3	1770.7	1760.8	1746.5
10°	1836.9	1836.9	1837.6	1831.9	1835.5	1827.7	1824.1	1823.4	1811.3	1798.5	1778.6
12.5°	1898.8	1902.4	1900.3	1897.4	1896.0	1893.1	1881.0	1883.9	1870.4	1848.3	1824.1
15°	1975.7	1981.4	1977.8	1976.4	1972.9	1962.2	1957.2	1955.1	1937.3	1905.2	1873.2
17.5°	2077.5	2070.4	2067.5	2064.0	2049.0	2041.2	2032.6	2031.2	2015.6	1977.8	1928.0
20°	2166.4	2176.4	2170.7	2167.1	2152.2	2137.3	2130.9	2128.7	2115.2	2073.9	1994.2
22.5°	2272.5	2274.6	2276.8	2268.2	2261.1	2249.7	2238.3	2234.8	2229.8	2187.1	2089.6
25°	2385.6	2394.2	2387.1	2378.5	2370.0	2369.3	2380.0	2378.5	2376.4	2335.1	2216.3
27.5°	2570.0	2577.8	2579.9	2570.7	2537.9	2540.8	2565.0	2572.8	2605.6	2537.2	2379.2
30°	2673.9	2681.7	2699.5	2734.4	2786.3	2831.9	2890.2	2908.0	2939.4	2810.5	2572.8
32.5°	2737.9	2740.8	2772.8	2837.6	2993.4	3163.5	3322.3	3328.7	3348.6	3167.8	2750.0
35°	2839.0	2841.1	2866.8	2937.9	3120.8	3404.1	3649.6	3657.5	3641.1	3278.8	2832.6
37.5°	2963.6	2969.2	2985.6	3044.7	3263.2	3605.5	3785.6	3779.9	3634.7	3367.1	2978.5
40°	3145.0	3145.0	3125.8	3205.5	3413.3	3720.8	3833.3	3823.3	3784.9	3622.6	3200.5
42.5°	3305.2	3302.3	3347.9	3402.0	3601.2	3898.7	4033.2	4049.6	4113.0	3943.6	3453.2
45°	3513.7	3526.5	3552.1	3650.3	3920.8	4202.6	4376.3	4391.9	4481.6	4321.5	3748.6
47.5°	3724.4	3728.6	3809.1	3940.0	4316.5	4614.7	4757.1	4782.7	4864.5	4763.5	4066.7
50°	3873.8	3914.4	4043.2	4249.6	4724.3	5117.2	5228.2	5258.8	5403.3	5244.6	4437.5
52.5°	4031.8	4071.7	4229.0	4543.5	5192.6	5631.0	5767.7	5788.3	5938.5	5731.4	4816.8
55°	4167.0	4204.1	4382.7	4804.0	5565.6	6155.6	6403.2	6379.0	6450.9	6106.5	5109.3
57.5°	4189.1	4219.0	4443.9	4970.6	5846.0	6605.4	6960.5	6974.7	6891.5	6386.9	5350.6
60°	4018.3	4079.5	4337.9	4952.8	5971.9	6918.5	7376.1	7386.1	7149.8	6530.6	5446.7
62.5°	3715.8	3709.4	4021.9	4666.7	5795.4	6989.7	7621.0	7610.3	7250.9	6461.6	5353.5
64°	3298.1	3374.9	3666.7	4315.1	5510.8	6880.1	7646.6	7640.9	7202.5	6317.8	5194.8
65°	3043.3	3039.0	3327.2	4027.6	5227.5	6715.0	7601.0	7593.2	7101.4	6189.0	5071.6
67.5°	2197.0	2207.0	2491.7	3108.0	4249.6	6069.4	7304.3	7275.1	6702.9	5762.0	4603.3
70°	1330.9	1336.6	1560.1	2061.8	3050.4	4906.5	6584.0	6585.4	6092.9	5124.3	3918.0
72.5°	701.0	716.0	805.7	1170.8	1852.6	3442.5	5341.4	5468.0	5231.1	4373.4	3095.2
75°	390.0	392.2	455.5	577.2	945.1	1926.6	4014.7	4051.0	4141.4	3520.1	2288.9
77.5°	297.5	301.8	321.7	372.9	514.6	893.2	2429.8	2612.0	2918.7	2481.7	1306.0
80°	241.3	245.5	262.6	293.2	342.3	423.5	1128.8	1227.0	1562.2	1101.7	509.6
82.5°	187.9	185.0	207.1	227.0	249.1	250.5	463.3	512.4	636.3	474.0	220.6
85°	139.5	139.5	157.3	153.0	160.8	146.6	204.3	225.6	254.8	201.4	102.5
87.5°	55.5	61.2	103.2	92.5	71.9	57.6	75.4	79.7	88.3	79.0	42.7
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°	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1
2.5°	1715.9	1718.1	1713.1	1709.5	1708.1	1706.0	1703.8	1704.5	1707.4	1710.2	1709.5
5°	1724.5	1725.2	1716.6	1712.4	1709.5	1706.7	1706.7	1708.8	1714.5	1718.8	1718.8
7.5°	1745.8	1745.8	1733.7	1725.9	1721.6	1716.6	1715.2	1715.9	1720.2	1725.9	1726.6
10°	1779.3	1776.4	1760.8	1748.7	1740.8	1728.7	1718.1	1712.4	1714.5	1718.1	1718.1
12.5°	1819.8	1812.0	1792.1	1775.7	1756.5	1733.7	1711.7	1700.3	1699.6	1703.1	1701.7
15°	1863.3	1854.7	1827.0	1797.1	1763.6	1730.2	1703.8	1687.5	1674.6	1671.1	1678.9
17.5°	1913.8	1896.0	1857.6	1816.3	1766.5	1723.0	1681.8	1648.3	1625.5	1619.1	1621.3
20°	1975.0	1951.5	1899.5	1834.8	1764.3	1697.4	1633.4	1588.5	1551.5	1540.1	1541.6
22.5°	2059.7	2019.1	1943.0	1844.0	1746.5	1649.0	1560.1	1501.7	1456.9	1439.1	1449.7
25°	2155.8	2111.6	1984.2	1841.9	1700.3	1571.5	1473.2	1397.1	1356.5	1330.2	1335.9
27.5°	2288.1	2209.9	2028.4	1822.7	1634.1	1476.8	1362.9	1291.0	1254.0	1240.5	1246.9
30°	2457.5	2337.2	2076.1	1770.7	1529.5	1357.2	1251.9	1204.9	1182.9	1165.8	1171.5
32.5°	2579.9	2426.9	2086.7	1683.2	1416.3	1248.3	1176.5	1141.6	1117.4	1101.0	1104.6
35°	2667.5	2503.1	2081.7	1575.7	1298.2	1158.7	1116.7	1088.2	1049.1	1013.5	1007.1
37.5°	2784.9	2598.4	2045.4	1458.3	1181.4	1098.2	1068.3	1015.6	959.4	911.7	909.6
40°	2965.0	2710.2	1967.9	1320.2	1081.8	1053.3	1017.0	948.7	888.2	849.8	846.9
42.5°	3150.7	2813.4	1862.5	1175.0	999.9	1006.4	962.2	894.6	857.6	832.7	829.9
45°	3377.8	2925.1	1748.7	1049.1	939.5	962.2	914.5	875.4	853.3	837.0	832.7
47.5°	3623.3	3039.7	1620.6	935.9	888.2	921.7	894.6	876.8	864.7	853.3	848.4
50°	3888.1	3167.8	1500.3	844.8	842.0	879.7	892.5	886.1	879.0	875.4	871.1
52.5°	4178.4	3298.8	1399.2	780.7	801.4	849.8	893.2	898.2	898.2	896.0	893.2
55°	4374.9	3389.9	1296.7	728.8	760.1	825.6	891.8	911.0	918.1	915.3	912.4
57.5°	4520.1	3439.7	1167.9	684.0	725.2	802.1	883.9	912.4	919.5	923.1	921.7
60°	4549.9	3393.4	999.2	637.0	687.5	767.9	855.5	891.1	900.3	922.4	924.5
62.5°	4415.4	3251.1	831.3	590.7	641.2	716.0	817.0	866.9	885.4	919.5	923.1
64°	4250.3	3091.7	738.0	561.5	611.4	686.8	797.8	860.5	884.7	930.2	933.0
65°	4129.3	2975.6	679.7	543.0	592.1	667.6	787.1	862.6	891.1	946.6	950.8
67.5°	3683.8	2576.4	562.2	499.6	546.6	634.8	789.3	880.4	889.6	953.0	952.3
70°	3048.2	2051.1	471.2	459.8	502.5	608.5	780.7	851.9	852.6	894.6	884.7
72.5°	2282.4	1515.9	408.5	418.5	453.4	545.9	737.3	813.5	801.4	807.1	797.1
75°	1567.9	1002.8	351.6	374.4	402.1	482.5	676.1	738.8	719.5	712.4	705.3
77.5°	837.0	554.4	292.5	330.9	349.4	417.1	590.0	650.5	630.6	602.8	593.6
80°	338.8	261.2	235.6	274.0	284.7	335.9	491.1	528.8	513.9	465.5	449.8
82.5°	170.1	156.6	185.0	215.6	216.4	239.8	365.1	400.7	367.2	308.2	294.6
85°	89.0	91.8	127.4	151.6	133.8	129.5	219.2	242.7	222.8	193.6	174.4
87.5°	32.0	37.0	66.9	66.2	47.0	24.9	48.4	23.5	12.8	7.8	10.0
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)