

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: P458709

Luminaire Tested: **GALN-SA2C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458709
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-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13060 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

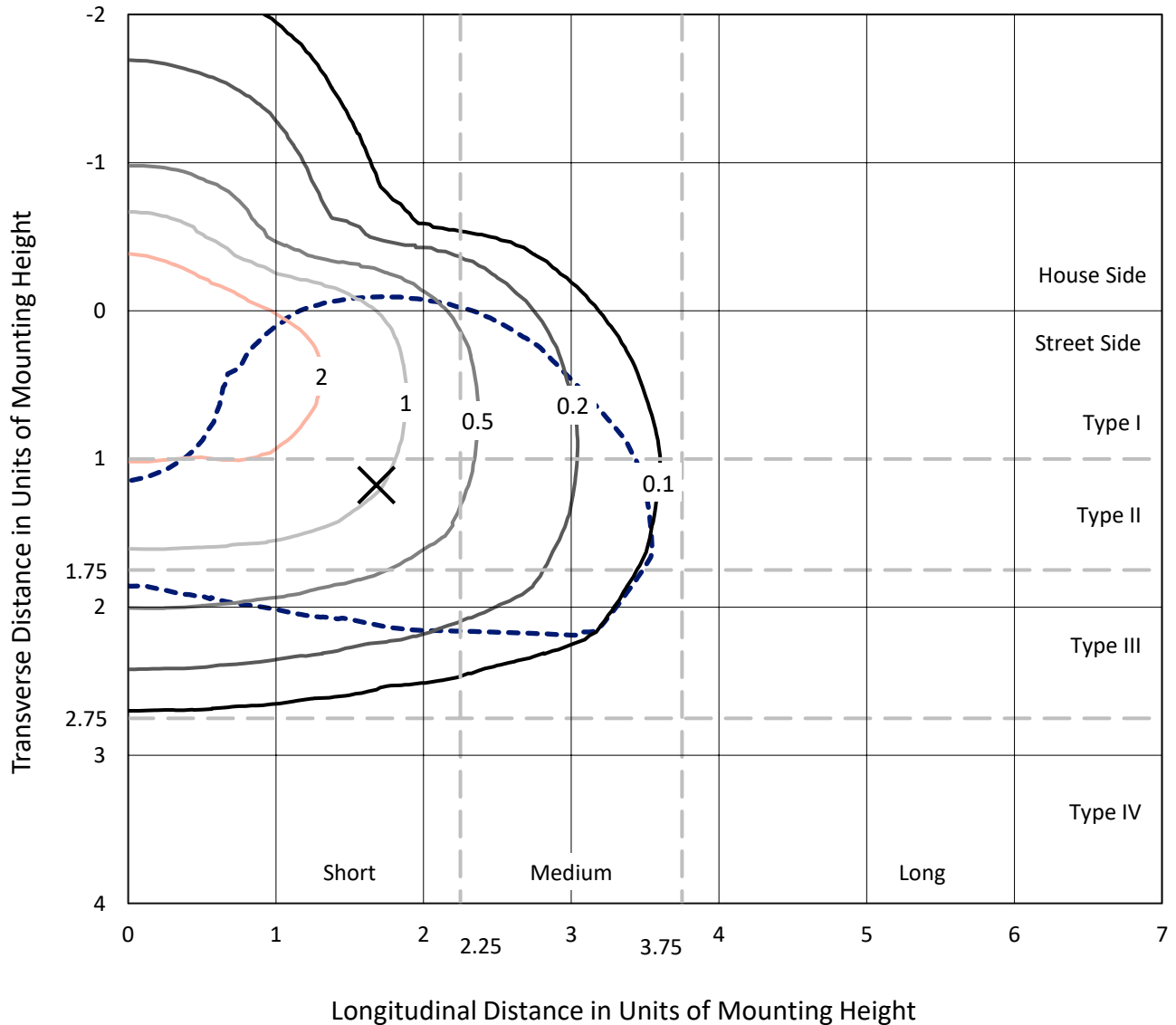
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

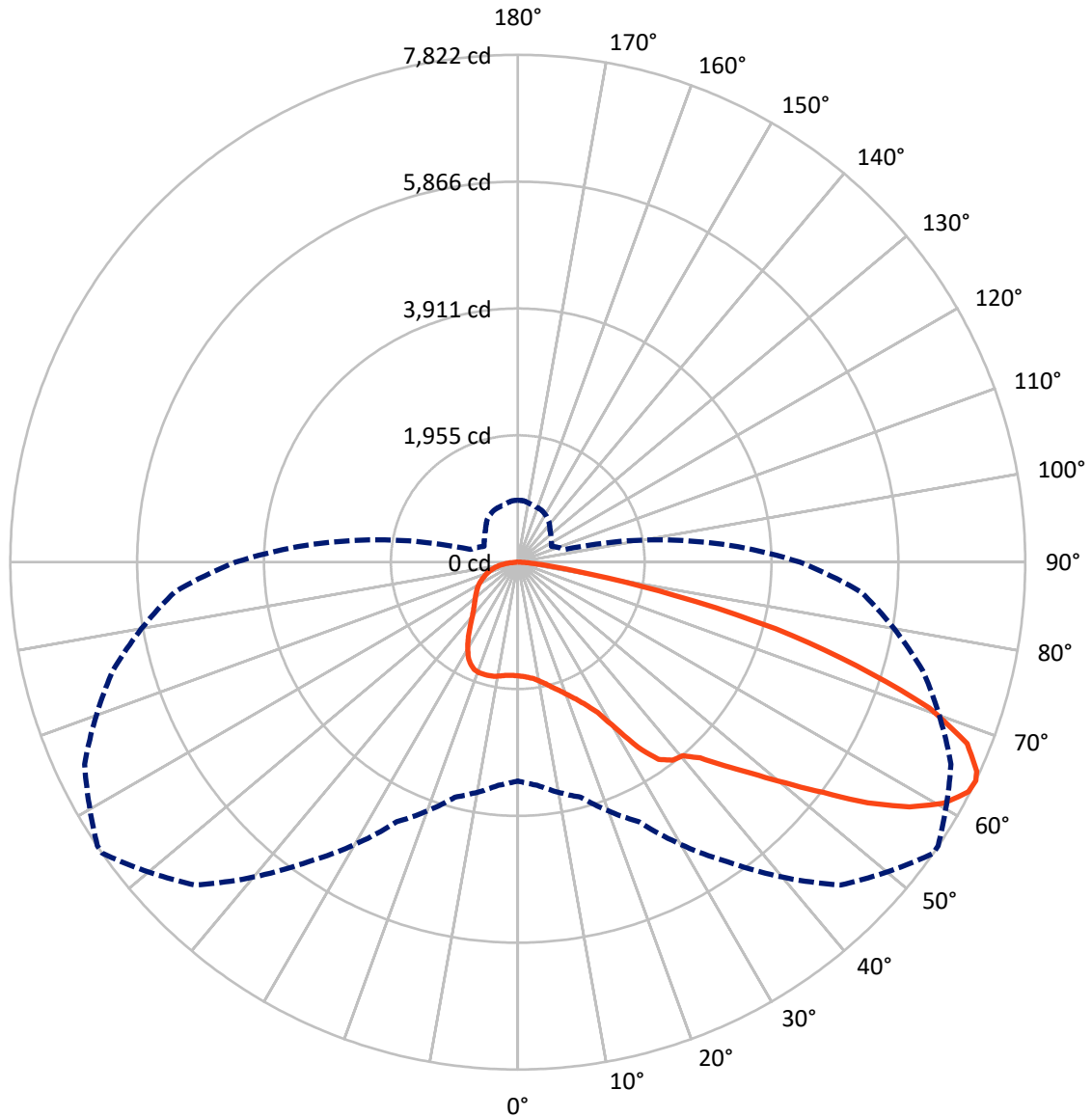
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	3172.5	0.0	3172.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9887.5	0.0	9887.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	13060.0	0.0	13060.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.3
10°-20°	537.8	4.1
20°-30°	957.5	7.3
30°-40°	1473.1	11.3
40°-50°	2088.3	16.0
50°-60°	3022.8	23.1
60°-70°	3128.2	24.0
70°-80°	1465.0	11.2
80°-90°	216.9	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°	13060.0	100.0
0°-180°	13060.0	100.0



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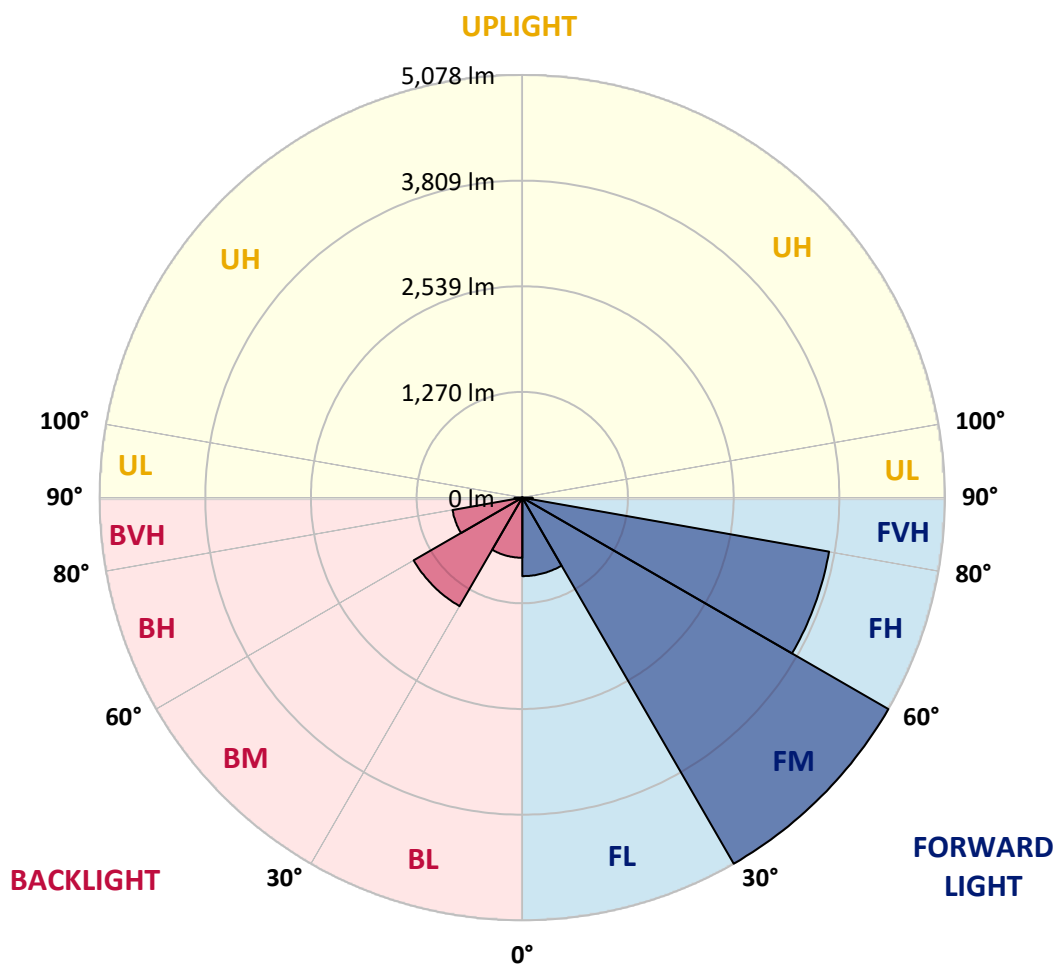
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.1	7.2			
FM	(30°-60°)	5078.1	38.9			
FH	(60°-80°)	3742.1	28.7			G2/5000
FVH	(80°-90°)	124.2	1.0			G2/225
BL	(0°-30°)	722.6	5.5	B2/1000		
BM	(30°-60°)	1506.1	11.5	B2/2500		
BH	(60°-80°)	851.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	92.7	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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1771.9	1771.2	1773.4	1771.2	1772.6	1767.5	1765.4	1766.8	1764.6	1761.0	1754.4
5°	1793.8	1793.0	1793.8	1790.8	1792.3	1789.4	1784.3	1785.7	1782.1	1774.1	1764.6
7.5°	1830.9	1828.0	1828.0	1827.2	1824.3	1820.0	1816.3	1814.9	1811.2	1801.0	1786.5
10°	1878.9	1878.9	1879.7	1873.8	1877.5	1869.5	1865.8	1865.1	1852.7	1839.6	1819.2
12.5°	1942.3	1945.9	1943.7	1940.8	1939.3	1936.4	1924.1	1927.0	1913.1	1890.6	1865.8
15°	2020.9	2026.7	2023.1	2021.6	2018.0	2007.1	2002.0	1999.8	1981.6	1948.8	1916.1
17.5°	2125.0	2117.7	2114.8	2111.2	2095.9	2087.9	2079.1	2077.7	2061.7	2023.1	1972.1
20°	2216.0	2226.2	2220.4	2216.7	2201.4	2186.1	2179.6	2177.4	2163.6	2121.3	2039.8
22.5°	2324.5	2326.6	2328.8	2320.1	2312.8	2301.2	2289.5	2285.9	2280.8	2237.1	2137.4
25°	2440.2	2448.9	2441.7	2432.9	2424.2	2423.5	2434.4	2432.9	2430.7	2388.5	2266.9
27.5°	2628.8	2636.8	2638.9	2629.5	2596.0	2598.9	2623.7	2631.7	2665.1	2595.3	2433.7
30°	2735.0	2743.0	2761.2	2796.9	2850.1	2896.6	2956.3	2974.5	3006.6	2874.8	2631.7
32.5°	2800.6	2803.5	2836.2	2902.5	3061.9	3235.9	3398.2	3404.8	3425.2	3240.3	2812.9
35°	2903.9	2906.1	2932.3	3005.1	3192.2	3481.9	3733.1	3741.1	3724.4	3353.8	2897.4
37.5°	3031.3	3037.1	3053.9	3114.3	3337.8	3688.0	3872.1	3866.3	3717.8	3444.1	3046.6
40°	3217.0	3217.0	3197.3	3278.8	3491.4	3805.9	3920.9	3910.7	3871.4	3705.4	3273.7
42.5°	3380.8	3377.8	3424.4	3479.8	3683.6	3987.9	4125.5	4142.2	4207.0	4033.8	3532.2
45°	3594.1	3607.2	3633.4	3733.8	4010.5	4298.7	4476.4	4492.4	4584.1	4420.3	3834.3
47.5°	3809.5	3813.9	3896.2	4030.1	4415.2	4720.2	4865.8	4892.1	4975.8	4872.4	4159.7
50°	3962.4	4003.9	4135.7	4346.8	4832.4	5234.2	5347.8	5379.1	5526.9	5364.5	4539.0
52.5°	4124.0	4164.8	4325.7	4647.5	5311.4	5759.8	5899.6	5920.7	6074.3	5862.5	4927.0
55°	4262.3	4300.2	4482.9	4913.9	5692.8	6296.3	6549.7	6524.9	6598.4	6246.1	5226.2
57.5°	4284.9	4315.5	4545.5	5084.2	5979.7	6756.4	7119.7	7134.2	7049.1	6532.9	5473.0
60°	4110.2	4172.8	4437.1	5066.0	6108.5	7076.7	7544.8	7555.0	7313.3	6680.0	5571.3
62.5°	3800.8	3794.3	4113.8	4773.4	5928.0	7149.5	7795.3	7784.3	7416.7	6609.4	5475.9
64°	3373.5	3452.1	3750.6	4413.8	5636.8	7037.4	7821.5	7815.6	7367.2	6462.3	5313.6
65°	3112.9	3108.5	3403.3	4119.7	5347.0	6868.5	7774.9	7766.9	7263.8	6330.6	5187.6
67.5°	2247.3	2257.5	2548.7	3179.1	4346.8	6208.2	7471.3	7441.5	6856.2	5893.8	4708.6
70°	1361.3	1367.2	1595.7	2109.0	3120.1	5018.7	6734.6	6736.0	6232.3	5241.5	4007.6
72.5°	717.1	732.4	824.1	1197.5	1894.9	3521.3	5463.5	5593.1	5350.7	4473.5	3166.0
75°	398.9	401.1	465.9	590.4	966.8	1970.7	4106.6	4143.7	4236.1	3600.6	2341.2
77.5°	304.3	308.7	329.0	381.5	526.3	913.6	2485.3	2671.7	2985.5	2538.5	1335.9
80°	246.8	251.2	268.6	299.9	350.2	433.2	1154.6	1255.0	1597.9	1126.9	521.2
82.5°	192.2	189.3	211.8	232.2	254.8	256.3	473.9	524.1	650.8	484.8	225.7
85°	142.7	142.7	160.9	156.5	164.5	150.0	208.9	230.8	260.6	206.0	104.8
87.5°	56.8	62.6	105.6	94.6	73.5	59.0	77.2	81.5	90.3	80.8	43.7
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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1755.2	1757.4	1752.3	1748.6	1747.2	1745.0	1742.8	1743.5	1746.4	1749.3	1748.6
5°	1763.9	1764.6	1755.9	1751.5	1748.6	1745.7	1745.7	1747.9	1753.7	1758.1	1758.1
7.5°	1785.7	1785.7	1773.4	1765.4	1761.0	1755.9	1754.4	1755.2	1759.5	1765.4	1766.1
10°	1820.0	1817.0	1801.0	1788.7	1780.6	1768.3	1757.4	1751.5	1753.7	1757.4	1757.4
12.5°	1861.5	1853.4	1833.1	1816.3	1796.7	1773.4	1750.8	1739.2	1738.4	1742.1	1740.6
15°	1905.9	1897.1	1868.7	1838.2	1803.9	1769.7	1742.8	1726.1	1712.9	1709.3	1717.3
17.5°	1957.5	1939.3	1900.0	1857.8	1806.9	1762.4	1720.2	1686.0	1662.7	1656.2	1658.3
20°	2020.2	1996.1	1943.0	1876.7	1804.7	1736.2	1670.7	1624.9	1587.0	1575.4	1576.8
22.5°	2106.8	2065.3	1987.4	1886.2	1786.5	1686.7	1595.7	1536.0	1490.2	1472.0	1482.9
25°	2205.1	2159.9	2029.6	1884.0	1739.2	1607.4	1506.9	1429.0	1387.5	1360.6	1366.4
27.5°	2340.5	2260.4	2074.8	1864.4	1671.5	1510.6	1394.1	1320.6	1282.7	1268.9	1275.4
30°	2513.7	2390.7	2123.5	1811.2	1564.4	1388.3	1280.5	1232.5	1209.9	1192.4	1198.3
32.5°	2638.9	2482.4	2134.4	1721.7	1448.7	1276.9	1203.4	1167.7	1142.9	1126.2	1129.8
35°	2728.5	2560.3	2129.4	1611.8	1327.8	1185.2	1142.2	1113.1	1073.0	1036.6	1030.1
37.5°	2848.6	2657.9	2092.2	1491.6	1208.5	1123.3	1092.7	1038.8	981.3	932.5	930.4
40°	3032.8	2772.2	2012.9	1350.4	1106.5	1077.4	1040.3	970.4	908.5	869.2	866.3
42.5°	3222.8	2877.7	1905.1	1201.9	1022.8	1029.4	984.2	915.1	877.2	851.7	848.8
45°	3455.0	2992.0	1788.7	1073.0	960.9	984.2	935.5	895.4	872.9	856.1	851.7
47.5°	3706.2	3109.2	1657.6	957.3	908.5	942.7	915.1	896.9	884.5	872.9	867.8
50°	3977.0	3240.3	1534.6	864.1	861.2	899.8	912.9	906.3	899.1	895.4	891.1
52.5°	4274.0	3374.2	1431.2	798.6	819.7	869.2	913.6	918.7	918.7	916.5	913.6
55°	4474.9	3467.4	1326.4	745.5	777.5	844.5	912.2	931.8	939.1	936.2	933.3
57.5°	4623.4	3518.3	1194.6	699.6	741.8	820.4	904.2	933.3	940.6	944.2	942.7
60°	4654.0	3471.0	1022.1	651.5	703.2	785.5	875.0	911.4	920.9	943.5	945.7
62.5°	4516.4	3325.4	850.3	604.2	655.9	732.4	835.7	886.7	905.6	940.6	944.2
64°	4347.5	3162.4	754.9	574.4	625.3	702.5	816.1	880.1	904.9	951.5	954.4
65°	4223.8	3043.7	695.2	555.5	605.7	682.8	805.2	882.3	911.4	968.2	972.6
67.5°	3768.0	2635.3	575.1	511.0	559.1	649.4	807.3	900.5	910.0	974.8	974.0
70°	3118.0	2098.1	481.9	470.3	514.0	622.4	798.6	871.4	872.1	915.1	904.9
72.5°	2334.6	1550.6	417.9	428.1	463.7	558.4	754.2	832.1	819.7	825.5	815.3
75°	1603.7	1025.7	359.6	382.9	411.3	493.6	691.6	755.6	736.0	728.7	721.4
77.5°	856.1	567.1	299.2	338.5	357.4	426.6	603.5	665.4	645.0	616.6	607.1
80°	346.5	267.2	241.0	280.3	291.2	343.6	502.3	540.9	525.6	476.1	460.1
82.5°	174.0	160.2	189.3	220.6	221.3	245.3	373.5	409.9	375.6	315.2	301.4
85°	91.0	93.9	130.3	155.1	136.9	132.5	224.2	248.2	227.9	198.0	178.4
87.5°	32.8	37.9	68.4	67.7	48.0	25.5	49.5	24.0	13.1	8.0	10.2
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)