

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: P527980

Luminaire Tested: **GALN-SA3A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10667 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

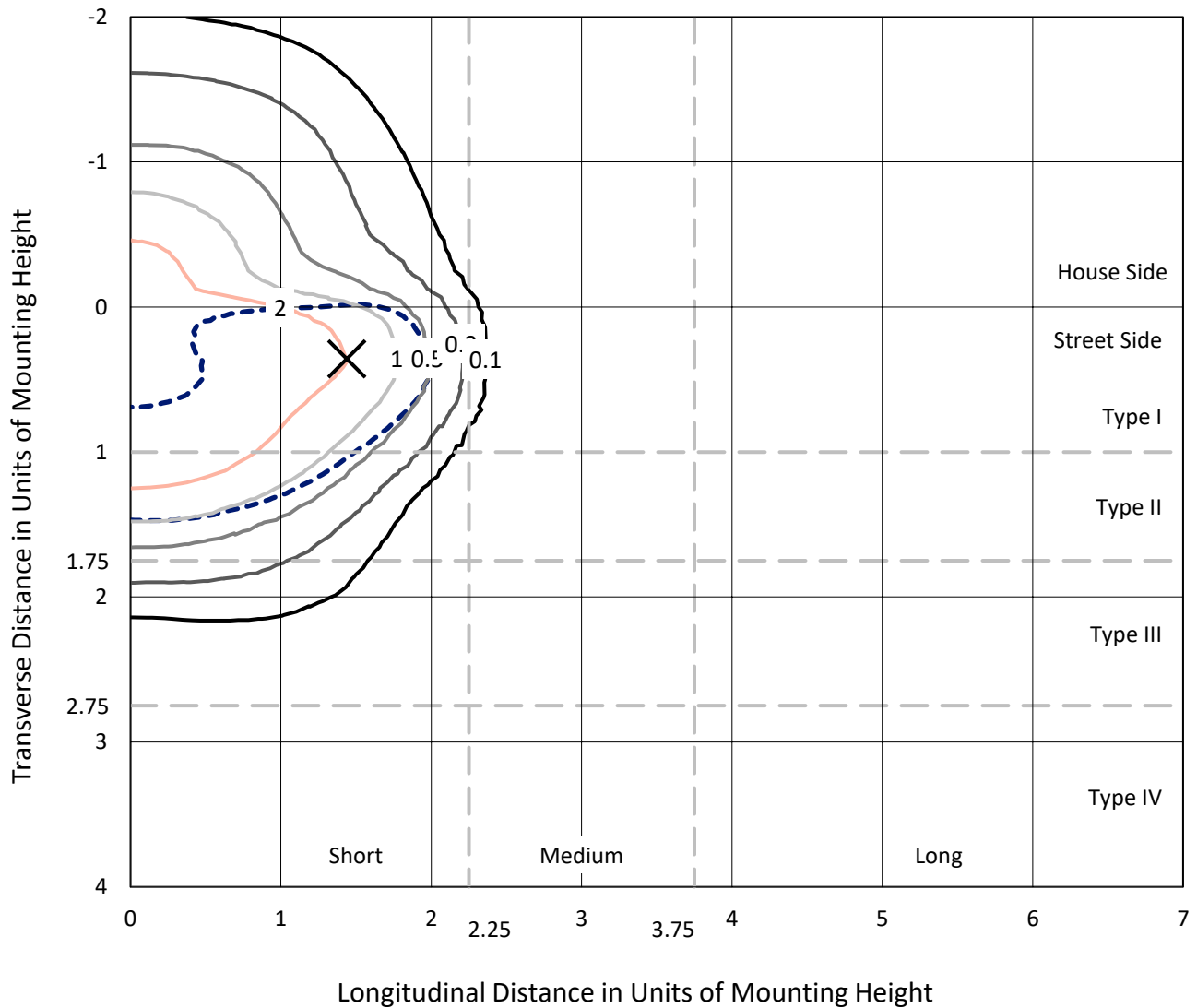
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

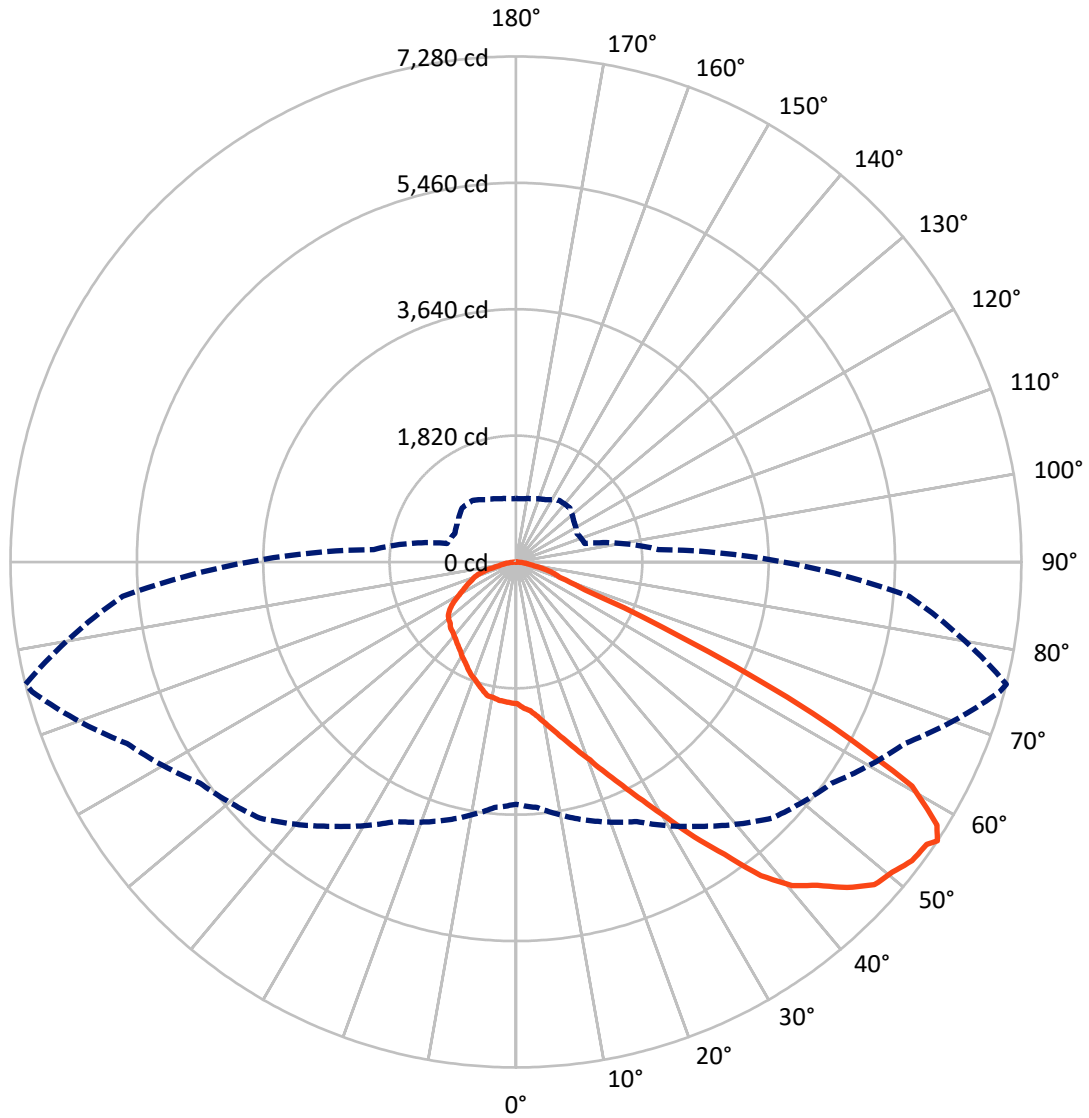
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.0	0.0	2868.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7799.0	0.0	7799.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	10667.0	0.0	10667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	1.9
10°-20°	635.8	6.0
20°-30°	1112.0	10.4
30°-40°	1741.0	16.3
40°-50°	2532.7	23.7
50°-60°	2783.6	26.1
60°-70°	1242.5	11.6
70°-80°	358.9	3.4
80°-90°	58.2	0.5
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°	10667.0	100.0
0°-180°	10667.0	100.0

Coefficient of Utilization



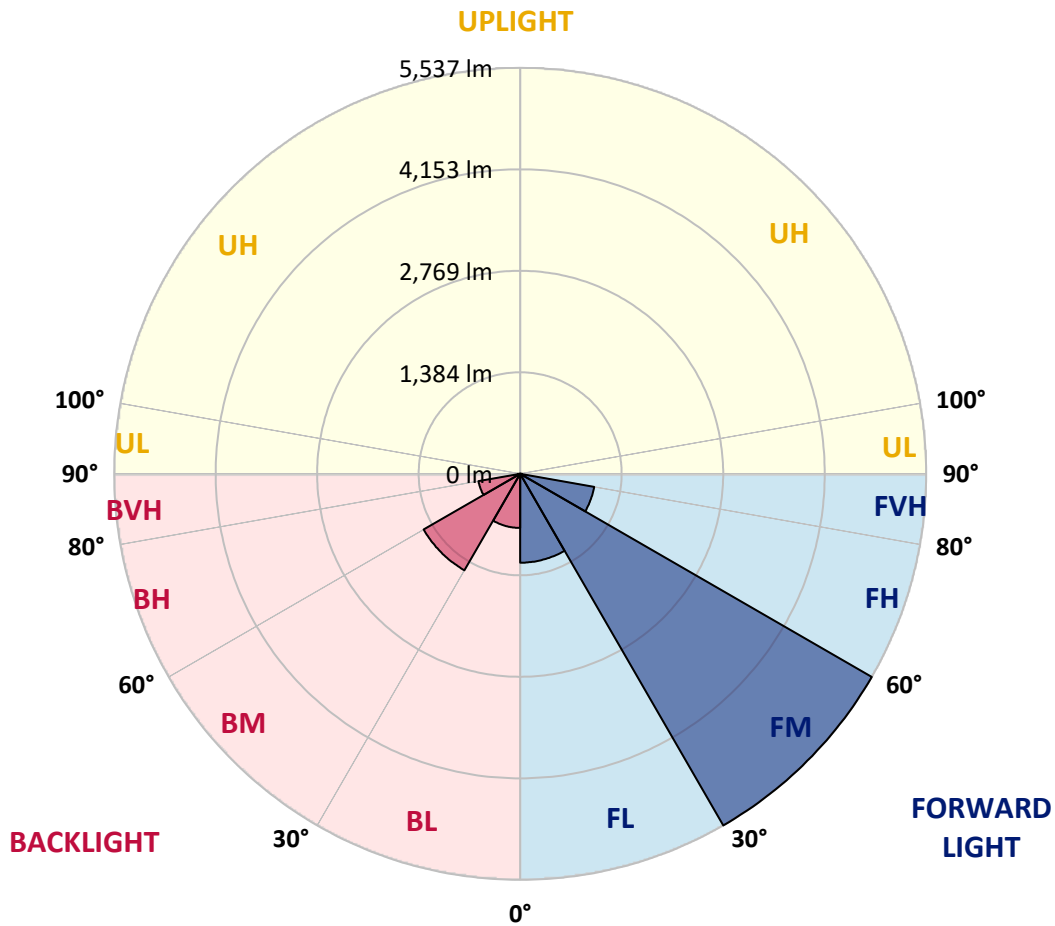
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.2	11.4			
FM (30°-60°)	5537.4	51.9			
FH (60°-80°)	1024.3	9.6			G1/1800
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	738.0	6.9	B2/1000		
BM (30°-60°)	1519.8	14.2	B2/2500		
BH (60°-80°)	577.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.2	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0
2.5°	2248.4	2212.5	2209.7	2200.0	2205.5	2180.7	2154.4	2119.8	2083.9	2106.0	2053.4
5°	2406.0	2357.7	2377.0	2343.8	2348.0	2314.8	2260.9	2220.8	2176.5	2150.2	2112.9
7.5°	2461.4	2465.5	2479.3	2473.8	2446.2	2446.2	2410.2	2339.7	2262.2	2247.0	2184.8
10°	2536.0	2537.4	2522.2	2526.4	2565.1	2547.1	2515.3	2484.9	2385.3	2367.3	2256.7
12.5°	2562.3	2537.4	2562.3	2584.4	2630.1	2655.0	2648.0	2625.9	2519.4	2507.0	2345.2
15°	2566.5	2551.2	2572.0	2621.8	2661.9	2767.0	2819.5	2804.3	2663.2	2664.6	2444.8
17.5°	2547.1	2567.8	2576.1	2619.0	2711.6	2809.8	2961.9	2982.7	2866.5	2848.5	2570.6
20°	2573.4	2558.2	2569.2	2607.9	2731.0	2884.5	3083.6	3220.5	3057.3	3044.9	2700.6
22.5°	2674.3	2653.6	2650.8	2675.7	2764.2	2923.2	3212.2	3458.4	3289.7	3296.6	2862.4
25°	2753.1	2764.2	2754.5	2753.1	2808.4	2981.3	3382.3	3741.8	3604.9	3564.8	3053.2
27.5°	2888.6	2914.9	2895.6	2921.8	2909.4	3068.4	3504.0	4055.7	3945.1	3891.2	3226.0
30°	3076.7	3090.5	3072.6	3072.6	3035.2	3190.1	3614.6	4383.4	4337.8	4264.5	3429.3
32.5°	3324.2	3345.0	3309.0	3288.3	3282.7	3371.2	3813.7	4707.0	4784.4	4722.2	3699.0
35°	3651.9	3639.5	3596.6	3577.3	3502.6	3649.2	4109.6	5079.0	5282.2	5171.6	4025.3
37.5°	3940.9	3921.6	3918.8	3811.0	3828.9	3949.2	4361.3	5361.1	5764.8	5733.0	4369.6
40°	4210.6	4228.6	4257.6	4196.8	4169.1	4301.9	4654.5	5576.8	6139.6	6127.1	4635.1
42.5°	4499.6	4483.0	4534.2	4483.0	4441.5	4629.6	4972.5	5726.1	6468.7	6366.4	4913.0
45°	4918.6	4866.0	4884.0	4888.2	4857.7	4926.9	5103.9	5834.0	6699.6	6688.5	5116.3
47.5°	5268.4	5269.8	5239.4	5215.9	5123.2	5192.4	5250.4	5901.7	6965.1	6947.1	5195.1
50°	5398.4	5380.4	5468.9	5520.1	5525.6	5384.6	5365.2	5939.1	7104.8	7025.9	5273.9
52.5°	4931.0	4947.6	5087.3	5391.5	5567.1	5582.3	5499.3	6016.5	7161.5	7144.9	5337.6
55°	3968.6	4048.8	4278.3	4629.6	5045.8	5503.5	5644.5	6096.7	7191.9	7178.0	5619.6
56°	3488.8	3551.0	3849.7	4124.9	4647.5	5217.3	5553.3	6182.4	7215.4	7280.4	5686.0
57.5°	2808.4	2880.3	3094.7	3407.2	4023.9	4672.4	5301.6	6077.3	7124.1	7149.0	5734.4
60°	1756.1	1763.1	2020.3	2226.3	2660.5	3293.8	4046.0	5287.8	6593.1	6557.2	5150.9
62.5°	1151.9	1153.2	1386.9	1555.6	1753.4	1898.6	2381.2	3506.7	4864.6	4801.0	3667.2
65°	808.9	826.9	1008.1	1233.4	1313.6	1237.6	1222.4	1848.8	2717.2	2625.9	1970.5
67.5°	591.8	593.2	753.6	995.6	1111.8	941.7	764.7	903.0	1075.8	1073.0	912.6
70°	391.3	407.9	531.0	743.9	876.7	756.4	625.0	645.8	684.5	684.5	678.9
72.5°	228.2	243.4	325.0	471.5	492.3	472.9	495.0	553.1	578.0	576.6	569.7
75°	130.0	136.9	154.9	196.4	244.8	289.0	363.7	419.0	443.9	459.1	441.1
77.5°	76.1	80.2	91.3	112.0	127.2	156.3	197.7	236.5	269.6	265.5	268.3
80°	40.1	40.1	51.2	66.4	88.5	110.6	131.4	153.5	171.5	175.6	179.8
82.5°	23.5	24.9	33.2	48.4	63.6	78.8	100.9	116.2	132.7	134.1	136.9
85°	12.4	13.8	20.7	31.8	42.9	48.4	49.8	47.0	51.2	48.4	55.3
87.5°	4.1	4.1	6.9	5.5	5.5	6.9	8.3	8.3	11.1	11.1	11.1
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°	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0
2.5°	2052.1	2052.1	2028.5	1984.3	1977.4	1959.4	1942.8	1941.4	1929.0	1917.9	1912.4
5°	2090.8	2047.9	2013.3	1973.2	1926.2	1904.1	1879.2	1851.6	1840.5	1851.6	1850.2
7.5°	2135.0	2099.1	1995.4	1920.7	1866.8	1844.6	1817.0	1787.9	1790.7	1790.7	1771.4
10°	2177.9	2129.5	1963.6	1868.1	1789.3	1772.7	1757.5	1768.6	1782.4	1785.2	1772.7
12.5°	2249.8	2140.6	1948.3	1815.6	1765.8	1729.9	1739.5	1770.0	1799.0	1790.7	1800.4
15°	2303.7	2150.2	1879.2	1761.7	1699.4	1716.0	1750.6	1771.4	1819.7	1814.2	1823.9
17.5°	2356.3	2155.8	1811.5	1689.8	1663.5	1709.1	1735.4	1794.9	1810.1	1843.3	1855.7
20°	2464.1	2166.8	1742.3	1645.5	1637.2	1689.8	1735.4	1763.1	1796.2	1825.3	1825.3
22.5°	2519.4	2161.3	1696.7	1587.4	1613.7	1646.9	1688.4	1735.4	1735.4	1763.1	1764.4
25°	2588.6	2139.2	1624.8	1559.8	1579.1	1610.9	1658.0	1641.4	1659.3	1659.3	1681.5
27.5°	2667.4	2092.2	1562.5	1510.0	1548.7	1583.3	1590.2	1579.1	1558.4	1555.6	1547.3
30°	2731.0	2034.1	1516.9	1493.4	1525.2	1544.6	1522.4	1498.9	1463.0	1460.2	1440.9
32.5°	2818.1	1962.2	1460.2	1451.9	1487.9	1489.3	1482.3	1446.4	1393.8	1371.7	1349.6
35°	2964.7	1920.7	1417.4	1429.8	1440.9	1436.7	1424.3	1385.6	1333.0	1323.3	1315.0
37.5°	3072.6	1890.3	1373.1	1388.3	1398.0	1403.5	1366.2	1323.3	1324.7	1305.4	1299.8
40°	3194.2	1870.9	1337.2	1344.1	1345.5	1363.4	1317.8	1297.1	1306.7	1294.3	1302.6
42.5°	3350.5	1876.4	1299.8	1294.3	1320.6	1313.6	1291.5	1263.9	1269.4	1232.1	1237.6
45°	3433.5	1913.8	1277.7	1252.8	1281.8	1280.5	1251.4	1225.1	1192.0	1120.1	1122.8
47.5°	3488.8	1923.5	1225.1	1208.6	1239.0	1257.0	1223.8	1162.9	1115.9	1064.7	1052.3
50°	3545.5	1941.4	1200.3	1165.7	1178.1	1221.0	1179.5	1121.4	1075.8	1030.2	1037.1
52.5°	3595.2	1976.0	1151.9	1100.7	1122.8	1169.8	1147.7	1077.2	1027.4	990.1	979.0
55°	3816.5	2053.4	1070.3	1003.9	1056.4	1115.9	1103.5	1017.7	963.8	944.4	941.7
56°	3851.1	2056.2	1027.4	970.7	1019.1	1097.9	1082.7	991.5	943.1	912.6	914.0
57.5°	3856.6	2023.0	966.6	940.3	981.8	1071.7	1052.3	970.7	904.3	876.7	868.4
60°	3393.4	1579.1	890.5	873.9	922.3	991.5	984.5	914.0	839.4	807.5	822.8
62.5°	2313.4	1157.4	831.1	828.3	853.2	920.9	903.0	839.4	777.1	756.4	746.7
65°	1346.8	878.1	773.0	761.9	782.7	818.6	831.1	764.7	699.7	685.9	681.7
67.5°	795.1	726.0	698.3	680.3	673.4	695.5	705.2	666.5	601.5	582.2	598.7
70°	665.1	645.8	647.1	616.7	600.1	584.9	576.6	542.1	488.1	463.2	456.3
72.5°	573.9	565.6	560.0	532.4	517.2	482.6	446.6	412.1	372.0	351.2	352.6
75°	438.3	435.6	438.3	424.5	398.2	370.6	337.4	293.2	262.7	236.5	242.0
77.5°	261.3	269.6	273.8	268.3	257.2	232.3	211.6	182.5	153.5	132.7	130.0
80°	179.8	186.7	193.6	186.7	175.6	157.6	135.5	113.4	92.6	81.6	78.8
82.5°	136.9	143.8	148.0	141.0	127.2	107.9	92.6	77.4	60.8	49.8	47.0
85°	49.8	56.7	55.3	66.4	71.9	69.1	59.5	45.6	34.6	24.9	23.5
87.5°	13.8	12.4	13.8	13.8	13.8	12.4	11.1	11.1	11.1	6.9	5.5
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)