

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: P527694

Luminaire Tested: **GALN-SA2D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527694
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-SA2D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10913 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

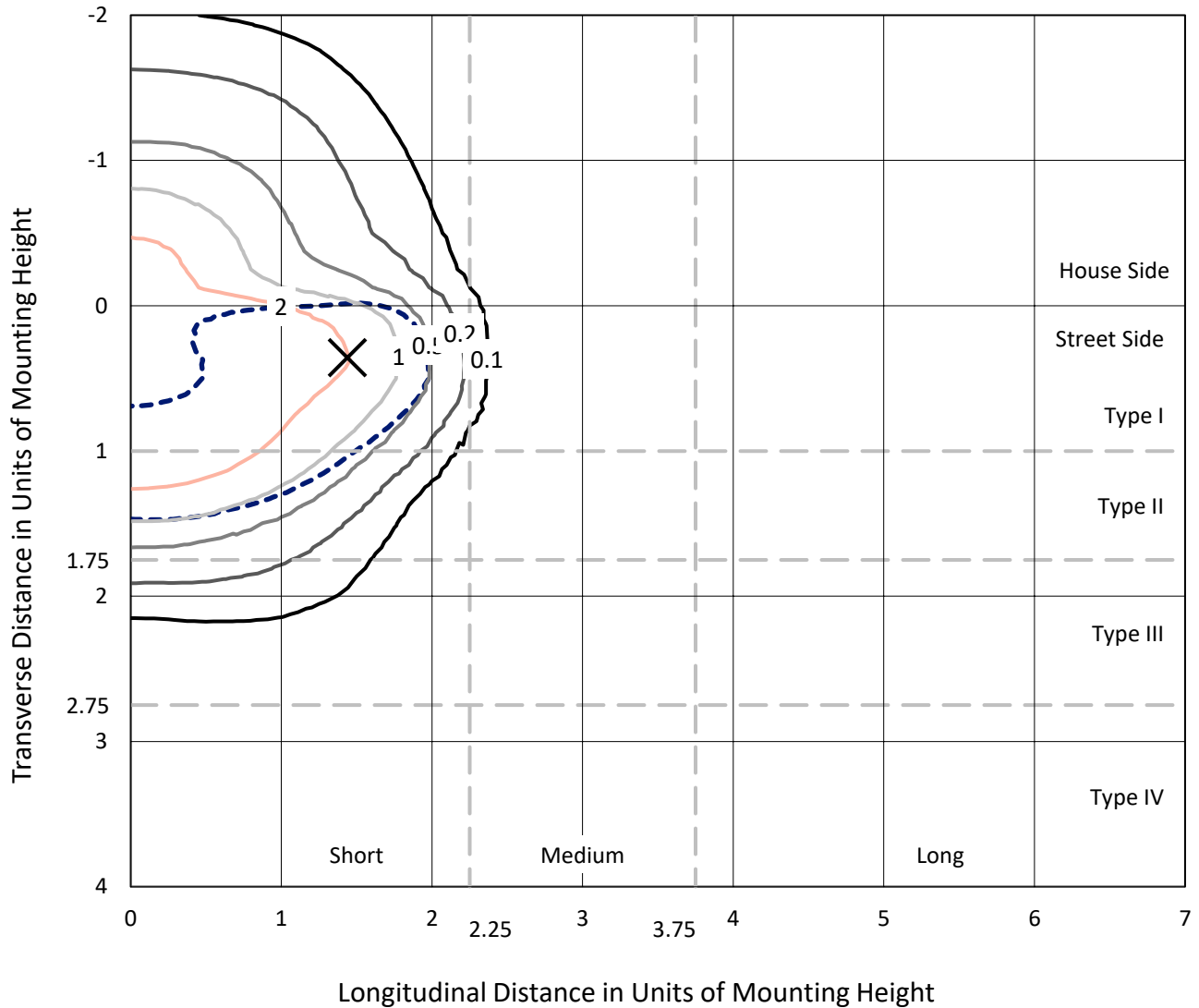
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

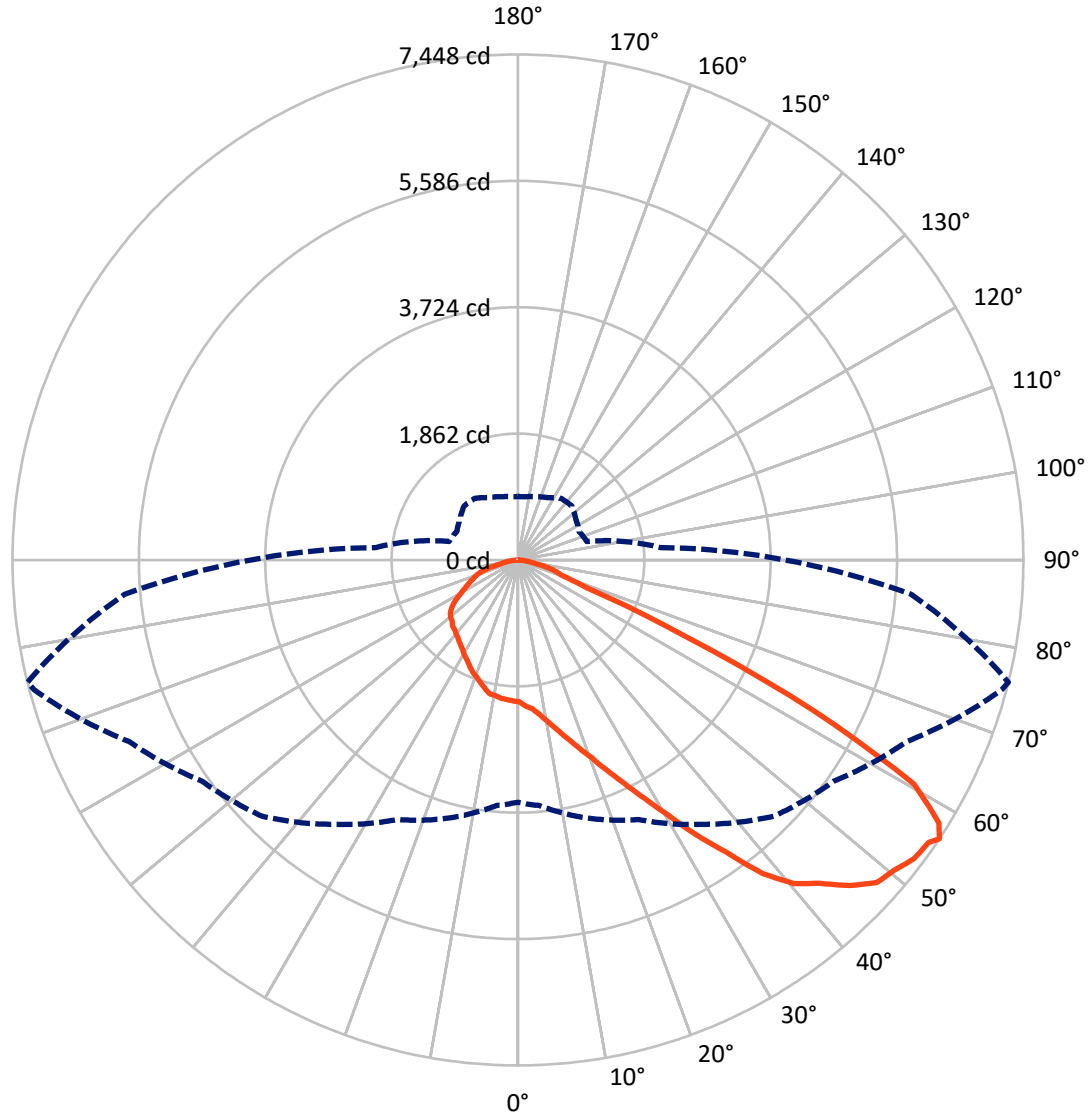
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2934.2	0.0	2934.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7978.8	0.0	7978.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	10913.0	0.0	10913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.9
10°-20°	650.5	6.0
20°-30°	1137.6	10.4
30°-40°	1781.2	16.3
40°-50°	2591.1	23.7
50°-60°	2847.8	26.1
60°-70°	1271.1	11.6
70°-80°	367.1	3.4
80°-90°	59.6	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°	10913.0	100.0
0°-180°	10913.0	100.0

Coefficient of Utilization



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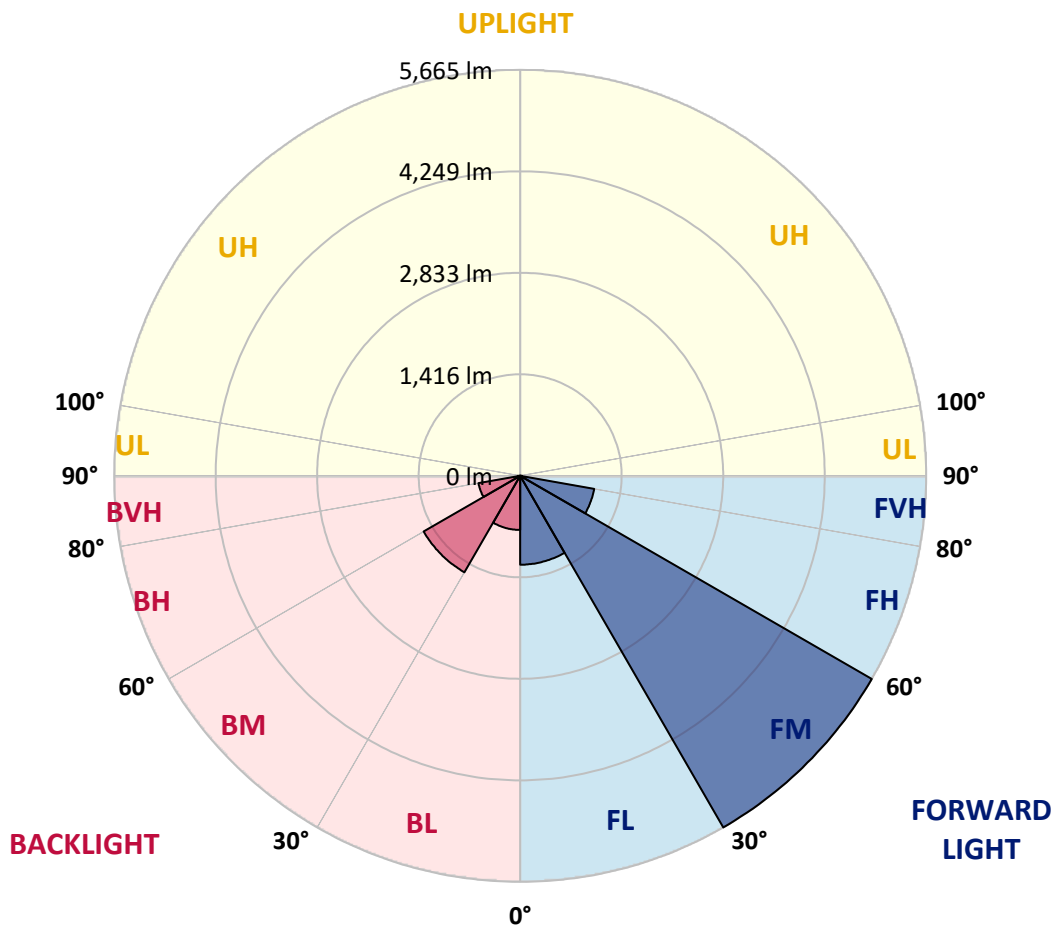
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.1	11.4			
FM (30°-60°)	5665.1	51.9			
FH (60°-80°)	1047.9	9.6			G1/1800
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	755.0	6.9	B2/1000		
BM (30°-60°)	1554.9	14.2	B2/2500		
BH (60°-80°)	590.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.9	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°	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1
2.5°	2300.3	2263.5	2260.7	2250.8	2256.4	2230.9	2204.1	2168.7	2131.9	2154.6	2100.8
5°	2461.5	2412.0	2431.8	2397.9	2402.1	2368.2	2313.0	2272.0	2226.7	2199.8	2161.6
7.5°	2518.1	2522.4	2536.5	2530.9	2502.6	2502.6	2465.8	2393.6	2314.4	2298.8	2235.2
10°	2594.5	2595.9	2580.4	2584.6	2624.2	2605.8	2573.3	2542.2	2440.3	2421.9	2308.8
12.5°	2621.4	2595.9	2621.4	2644.0	2690.7	2716.2	2709.1	2686.5	2577.5	2564.8	2399.3
15°	2625.6	2610.1	2631.3	2682.2	2723.3	2830.8	2884.5	2869.0	2724.7	2726.1	2501.1
17.5°	2605.8	2627.1	2635.5	2679.4	2774.2	2874.6	3030.2	3051.5	2932.6	2914.2	2629.9
20°	2632.7	2617.2	2628.5	2668.1	2794.0	2951.0	3154.7	3294.8	3127.8	3115.1	2762.9
22.5°	2736.0	2714.8	2711.9	2737.4	2827.9	2990.6	3286.3	3538.1	3365.5	3372.6	2928.4
25°	2816.6	2827.9	2818.0	2816.6	2873.2	3050.0	3460.3	3828.1	3688.1	3647.0	3123.6
27.5°	2955.3	2982.1	2962.3	2989.2	2976.5	3139.2	3584.8	4149.2	4036.1	3980.9	3300.4
30°	3147.7	3161.8	3143.4	3143.4	3105.2	3263.7	3698.0	4484.5	4437.8	4362.9	3508.4
32.5°	3400.9	3422.1	3385.3	3364.1	3358.4	3449.0	3901.7	4815.6	4894.8	4831.1	3784.3
35°	3736.2	3723.4	3679.6	3659.8	3583.4	3733.3	4204.4	5196.1	5404.1	5290.9	4118.1
37.5°	4031.8	4012.0	4009.2	3898.8	3917.2	4040.3	4461.9	5484.7	5897.8	5865.2	4470.4
40°	4307.7	4326.1	4355.8	4293.5	4265.2	4401.1	4761.8	5705.4	6281.2	6268.4	4742.0
42.5°	4603.4	4586.4	4638.7	4586.4	4543.9	4736.3	5087.2	5858.2	6617.9	6513.2	5026.3
45°	5032.0	4978.2	4996.6	5000.9	4969.8	5040.5	5221.6	5968.5	6854.1	6842.8	5234.3
47.5°	5389.9	5391.3	5360.2	5336.2	5241.4	5312.1	5371.5	6037.8	7125.7	7107.3	5314.9
50°	5522.9	5504.5	5595.0	5647.4	5653.0	5508.8	5488.9	6076.0	7268.6	7188.0	5395.6
52.5°	5044.7	5061.7	5204.6	5515.8	5695.5	5711.0	5626.2	6155.3	7326.6	7309.6	5460.7
55°	4060.1	4142.2	4377.0	4736.3	5162.2	5630.4	5774.7	6237.3	7357.7	7343.6	5749.2
56°	3569.2	3632.9	3938.5	4220.0	4754.7	5337.6	5681.3	6325.0	7381.8	7448.3	5817.1
57.5°	2873.2	2946.8	3166.0	3485.8	4116.7	4780.2	5423.9	6217.5	7288.4	7313.9	5866.7
60°	1796.6	1803.7	2066.8	2277.6	2721.8	3369.8	4139.3	5409.7	6745.2	6708.4	5269.7
62.5°	1178.4	1179.8	1418.9	1591.5	1793.8	1942.4	2436.1	3587.6	4976.8	4911.8	3751.7
65°	827.6	846.0	1031.3	1261.9	1343.9	1266.1	1250.6	1891.4	2779.8	2686.5	2015.9
67.5°	605.5	606.9	771.0	1018.6	1137.4	963.4	782.3	923.8	1100.6	1097.8	933.7
70°	400.4	417.3	543.2	761.1	896.9	773.8	639.4	660.7	700.3	700.3	694.6
72.5°	233.4	249.0	332.4	482.4	503.6	483.8	506.5	565.9	591.3	589.9	582.8
75°	133.0	140.1	158.4	200.9	250.4	295.7	372.1	428.6	454.1	469.7	451.3
77.5°	77.8	82.1	93.4	114.6	130.2	159.9	202.3	241.9	275.9	271.6	274.4
80°	41.0	41.0	52.3	67.9	90.5	113.2	134.4	157.0	175.4	179.7	183.9
82.5°	24.0	25.5	34.0	49.5	65.1	80.6	103.3	118.8	135.8	137.2	140.1
85°	12.7	14.1	21.2	32.5	43.9	49.5	50.9	48.1	52.3	49.5	56.6
87.5°	4.2	4.2	7.1	5.7	5.7	7.1	8.5	8.5	11.3	11.3	11.3
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°	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1
2.5°	2099.4	2099.4	2075.3	2030.1	2023.0	2004.6	1987.6	1986.2	1973.5	1962.2	1956.5
5°	2139.0	2095.1	2059.8	2018.7	1970.6	1948.0	1922.5	1894.3	1882.9	1894.3	1892.8
7.5°	2184.3	2147.5	2041.4	1965.0	1909.8	1887.2	1858.9	1829.2	1832.0	1832.0	1812.2
10°	2228.1	2178.6	2008.8	1911.2	1830.6	1813.6	1798.1	1809.4	1823.5	1826.3	1813.6
12.5°	2301.7	2189.9	1993.3	1857.5	1806.5	1769.8	1779.7	1810.8	1840.5	1832.0	1841.9
15°	2356.9	2199.8	1922.5	1802.3	1738.6	1755.6	1791.0	1812.2	1861.7	1856.1	1866.0
17.5°	2410.6	2205.5	1853.2	1728.7	1701.9	1748.5	1775.4	1836.3	1851.8	1885.8	1898.5
20°	2521.0	2216.8	1782.5	1683.5	1675.0	1728.7	1775.4	1803.7	1837.7	1867.4	1867.4
22.5°	2577.5	2211.1	1735.8	1624.0	1650.9	1684.9	1727.3	1775.4	1775.4	1803.7	1805.1
25°	2648.3	2188.5	1662.2	1595.8	1615.6	1648.1	1696.2	1679.2	1697.6	1697.6	1720.2
27.5°	2728.9	2140.4	1598.6	1544.8	1584.4	1619.8	1626.9	1615.6	1594.3	1591.5	1583.0
30°	2794.0	2081.0	1551.9	1527.9	1560.4	1580.2	1557.6	1533.5	1496.7	1493.9	1474.1
32.5°	2883.1	2007.4	1493.9	1485.4	1522.2	1523.6	1516.5	1479.8	1426.0	1403.4	1380.7
35°	3033.1	1965.0	1450.0	1462.8	1474.1	1469.8	1457.1	1417.5	1363.7	1353.8	1345.4
37.5°	3143.4	1933.9	1404.8	1420.3	1430.2	1435.9	1397.7	1353.8	1355.3	1335.5	1329.8
40°	3267.9	1914.1	1368.0	1375.1	1376.5	1394.9	1348.2	1327.0	1336.9	1324.1	1332.6
42.5°	3427.8	1919.7	1329.8	1324.1	1351.0	1343.9	1321.3	1293.0	1298.7	1260.5	1266.1
45°	3512.6	1957.9	1307.2	1281.7	1311.4	1310.0	1280.3	1253.4	1219.5	1145.9	1148.7
47.5°	3569.2	1967.8	1253.4	1236.4	1267.6	1285.9	1252.0	1189.7	1141.6	1089.3	1076.6
50°	3627.2	1986.2	1227.9	1192.6	1205.3	1249.2	1206.7	1147.3	1100.6	1053.9	1061.0
52.5°	3678.2	2021.6	1178.4	1126.1	1148.7	1196.8	1174.2	1102.0	1051.1	1012.9	1001.6
55°	3904.5	2100.8	1095.0	1027.1	1080.8	1141.6	1128.9	1041.2	986.0	966.2	963.4
56°	3939.9	2103.6	1051.1	993.1	1042.6	1123.3	1107.7	1014.3	964.8	933.7	935.1
57.5°	3945.5	2069.7	988.9	962.0	1004.4	1096.4	1076.6	993.1	925.2	896.9	888.4
60°	3471.6	1615.6	911.1	894.1	943.6	1014.3	1007.2	935.1	858.7	826.2	841.7
62.5°	2366.8	1184.1	850.2	847.4	872.9	942.2	923.8	858.7	795.0	773.8	763.9
65°	1377.9	898.3	790.8	779.5	800.7	837.5	850.2	782.3	715.8	701.7	697.4
67.5°	813.4	742.7	714.4	696.0	688.9	711.6	721.5	681.9	615.4	595.6	612.6
70°	680.5	660.7	662.1	630.9	614.0	598.4	589.9	554.6	499.4	473.9	466.8
72.5°	587.1	578.6	572.9	544.7	529.1	493.7	456.9	421.6	380.5	359.3	360.7
75°	448.5	445.6	448.5	434.3	407.4	379.1	345.2	299.9	268.8	241.9	247.6
77.5°	267.4	275.9	280.1	274.4	263.1	237.7	216.4	186.7	157.0	135.8	133.0
80°	183.9	191.0	198.1	191.0	179.7	161.3	138.6	116.0	94.8	83.5	80.6
82.5°	140.1	147.1	151.4	144.3	130.2	110.3	94.8	79.2	62.2	50.9	48.1
85°	50.9	58.0	56.6	67.9	73.6	70.7	60.8	46.7	35.4	25.5	24.0
87.5°	14.1	12.7	14.1	14.1	14.1	12.7	11.3	11.3	11.3	7.1	5.7
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)