

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: P455778

Luminaire Tested: **GALN-SA7A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27148 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

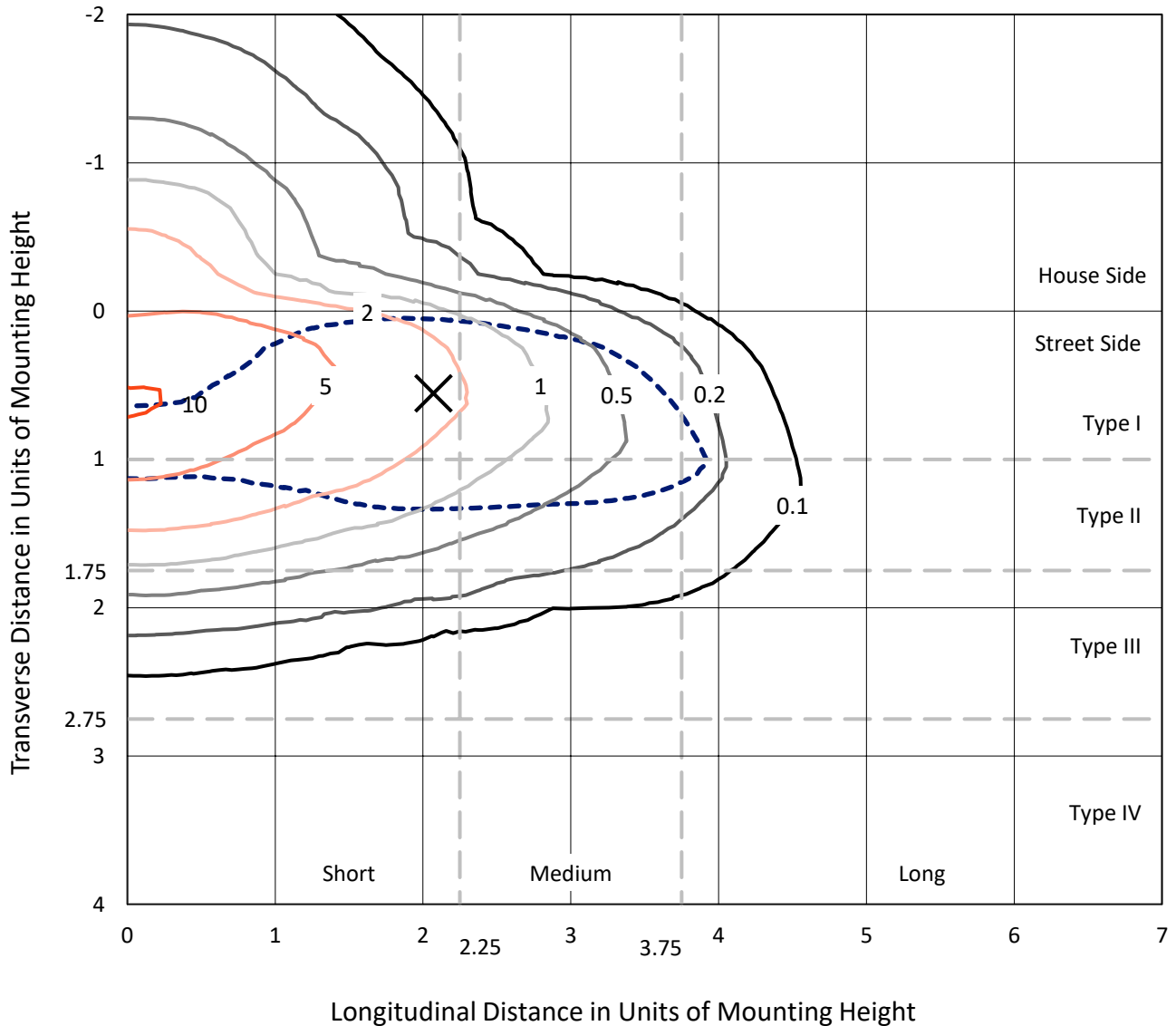
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

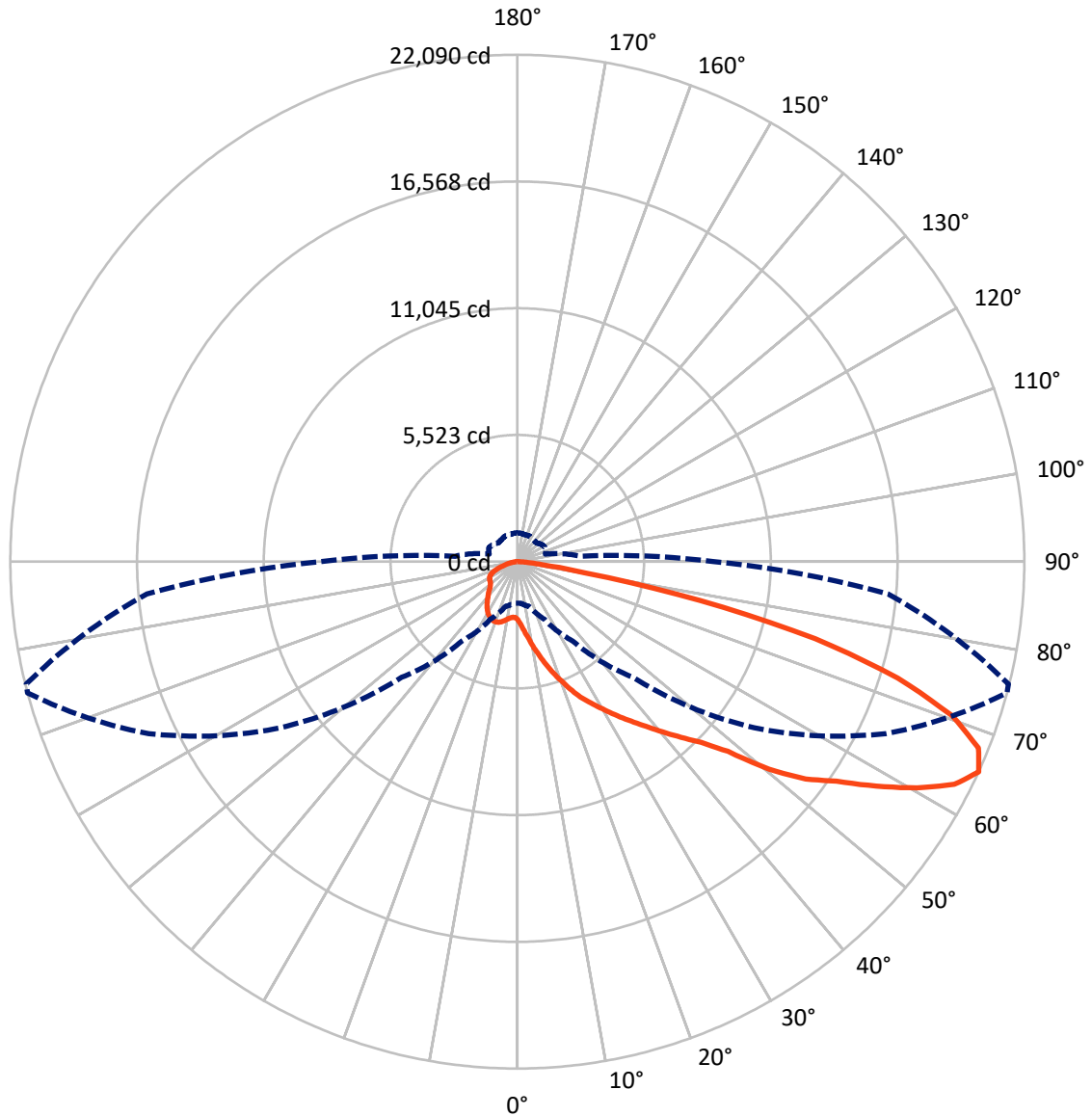
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4563.9	0.0	4563.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22584.1	0.0	22584.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	27148.0	0.0	27148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	1.1
10°-20°	1200.4	4.4
20°-30°	2318.7	8.5
30°-40°	3766.3	13.9
40°-50°	5180.9	19.1
50°-60°	6116.9	22.5
60°-70°	5359.4	19.7
70°-80°	2558.6	9.4
80°-90°	340.5	1.3
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°	27148.0	100.0
0°-180°	27148.0	100.0

Coefficient of Utilization



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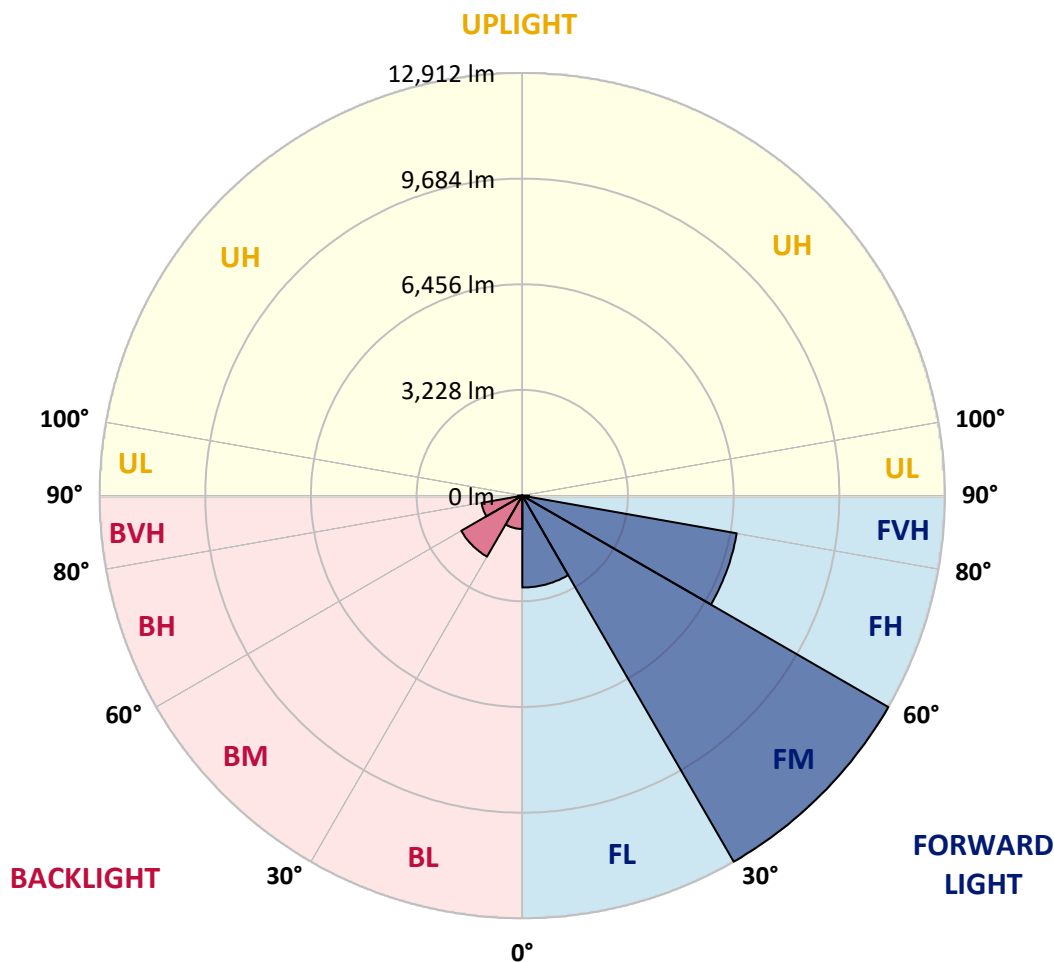
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.7	10.3			
FM (30°-60°)	12912.2	47.6			
FH (60°-80°)	6652.5	24.5			G3/7500
FVH (80°-90°)	212.8	0.8			G2/225
BL (0°-30°)	1018.9	3.8	B3/2500		
BM (30°-60°)	2151.9	7.9	B2/2500		
BH (60°-80°)	1265.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	127.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	3351.4	3329.3	3305.8	3241.0	3171.8	3093.7	2981.8	2874.3	2731.5	2727.1	2621.0
5°	4280.6	4265.8	4161.3	4100.9	3940.4	3726.9	3545.8	3264.5	3003.9	2973.0	2766.8
7.5°	5134.6	5077.2	5037.4	4928.5	4769.4	4495.5	4145.1	3765.2	3329.3	3288.1	2946.5
10°	5778.1	5772.2	5751.6	5657.3	5538.1	5265.7	4876.9	4332.1	3741.6	3660.6	3164.4
12.5°	6259.6	6264.0	6261.1	6259.6	6174.2	5943.0	5521.9	4947.6	4158.3	4100.9	3416.2
15°	6576.2	6620.4	6638.0	6711.7	6719.0	6564.4	6202.2	5542.5	4628.1	4542.7	3687.1
17.5°	6785.3	6807.4	6889.8	7015.0	7116.6	7088.6	6766.1	6093.2	5108.1	4965.3	3968.4
20°	6985.5	7023.8	7087.1	7258.0	7437.6	7520.1	7293.3	6657.2	5583.7	5492.4	4279.1
22.5°	7402.3	7456.7	7478.8	7565.7	7718.8	7864.6	7761.5	7197.6	6105.0	5981.3	4608.9
25°	8107.6	8165.0	8103.2	8082.6	8132.6	8204.8	8182.7	7707.1	6596.8	6420.1	4921.1
27.5°	9026.4	9033.8	8913.0	8798.2	8674.5	8637.7	8569.9	8159.1	7023.8	6876.6	5234.7
30°	10013.0	9977.7	9777.4	9569.8	9360.7	9154.5	8960.2	8595.0	7499.4	7330.1	5542.5
32.5°	10928.9	10909.8	10687.4	10364.9	10011.5	9817.2	9424.0	9035.3	8008.9	7845.5	5859.1
35°	11615.1	11643.1	11398.6	11046.7	10660.9	10488.6	9992.4	9497.6	8536.1	8357.9	6203.6
37.5°	12102.5	12087.8	11871.3	11566.5	11227.8	11077.6	10656.5	10002.7	9103.0	8932.2	6580.6
40°	12276.2	12267.4	12106.9	11884.5	11669.6	11616.6	11351.5	10547.5	9752.4	9552.1	7034.1
42.5°	12165.8	12184.9	12078.9	12018.5	11978.8	12017.1	12042.1	11261.7	10460.6	10276.6	7525.9
45°	11827.1	11816.8	11802.1	11900.7	12124.6	12376.4	12725.3	11936.1	11230.8	11083.5	8185.6
47.5°	11221.9	11295.5	11332.4	11604.8	12093.6	12690.0	13511.7	12840.2	12348.4	12220.3	9191.3
50°	10375.2	10434.1	10652.1	11136.5	11865.4	12807.8	14280.3	14318.6	14212.6	13972.6	10283.9
52.5°	9052.9	9144.2	9593.3	10481.3	11397.1	12759.2	14745.6	15586.4	15726.3	15546.7	11360.3
55°	7573.1	7701.2	8175.3	9340.1	10752.2	12494.2	15066.6	16321.2	16879.3	16712.9	12397.0
57.5°	6124.1	6259.6	6747.0	7874.9	9627.2	11908.1	15277.2	17139.9	18448.9	18232.5	13686.9
60°	4589.8	4731.1	5149.3	6311.1	8025.1	10762.5	15134.4	17849.6	20017.2	19924.4	14978.3
62.5°	2961.2	3117.3	3481.0	4442.5	6168.3	9197.2	14370.1	18241.3	21374.8	21262.9	15920.7
65°	1803.8	1821.5	2021.7	2758.0	4221.7	7121.0	12622.3	17721.5	22090.4	22056.6	16207.8
67.5°	1166.2	1194.2	1285.5	1652.1	2531.2	4946.1	10092.5	16006.1	21672.3	21660.5	15614.4
70°	985.1	993.9	1035.2	1114.7	1471.0	2999.5	7087.1	13271.6	20083.4	20083.4	14187.5
72.5°	880.6	892.3	907.1	932.1	1049.9	1699.3	4229.0	10331.1	17340.2	17455.0	12076.0
75°	799.6	796.6	805.5	809.9	895.3	1110.3	2186.7	7640.8	13414.5	13184.8	8745.2
77.5°	684.7	689.1	684.7	703.9	790.7	845.2	1110.3	5127.2	8129.7	7832.2	4389.5
80°	562.5	569.9	577.2	589.0	675.9	642.0	667.0	2336.9	3006.8	2943.5	1356.2
82.5°	422.6	432.9	444.7	472.7	531.6	424.1	421.1	998.4	1085.2	993.9	499.2
85°	170.8	201.7	304.8	332.8	334.3	232.7	259.2	416.7	443.2	432.9	195.8
87.5°	39.8	47.1	98.7	148.7	136.9	86.9	95.7	135.5	154.6	142.8	66.3
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°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	2572.5	2520.9	2432.6	2364.8	2316.2	2273.5	2247.0	2230.8	2224.9	2223.5	2224.9
5°	2659.3	2568.0	2428.2	2339.8	2291.2	2263.2	2247.0	2245.6	2247.0	2248.5	2244.1
7.5°	2778.6	2647.6	2465.0	2382.5	2345.7	2325.1	2317.7	2314.8	2316.2	2314.8	2314.8
10°	2937.6	2758.0	2537.1	2451.7	2420.8	2397.2	2385.4	2378.1	2372.2	2366.3	2363.4
12.5°	3112.9	2880.2	2615.2	2532.7	2488.5	2451.7	2425.2	2406.1	2392.8	2379.6	2376.6
15°	3308.7	3009.8	2702.0	2587.2	2523.9	2469.4	2423.7	2392.8	2369.3	2350.1	2348.6
17.5°	3495.7	3132.0	2760.9	2612.2	2519.4	2442.9	2382.5	2339.8	2310.4	2285.3	2282.4
20°	3696.0	3248.3	2787.4	2596.0	2475.3	2382.5	2303.0	2251.5	2217.6	2189.6	2185.2
22.5°	3897.7	3347.0	2784.5	2544.5	2398.7	2289.7	2205.8	2151.3	2111.6	2083.6	2073.3
25°	4090.6	3426.5	2747.7	2462.0	2292.7	2179.3	2093.9	2043.8	2008.5	1974.6	1974.6
27.5°	4264.4	3473.6	2678.5	2361.9	2183.7	2064.4	1996.7	1951.1	1918.7	1896.6	1883.3
30°	4435.2	3495.7	2584.2	2235.3	2068.9	1967.3	1912.8	1886.3	1856.8	1831.8	1828.8
32.5°	4588.3	3491.3	2466.4	2111.6	1959.9	1887.7	1865.7	1845.0	1814.1	1778.8	1769.9
35°	4737.0	3461.8	2326.5	1976.1	1868.6	1840.6	1846.5	1817.1	1761.1	1716.9	1709.6
37.5°	4899.0	3408.8	2173.4	1865.7	1792.0	1818.5	1833.3	1768.5	1677.2	1608.0	1591.8
40°	5086.0	3348.5	2014.4	1755.2	1731.7	1797.9	1797.9	1678.6	1553.5	1510.8	1499.0
42.5°	5305.4	3298.4	1881.9	1662.5	1681.6	1747.9	1740.5	1559.4	1507.8	1485.8	1479.9
45°	5652.9	3280.7	1744.9	1581.5	1640.4	1689.0	1628.6	1518.1	1488.7	1471.0	1465.1
47.5°	6202.2	3301.3	1624.2	1521.1	1593.2	1630.1	1503.4	1490.2	1469.6	1444.5	1441.6
50°	6711.7	3282.2	1538.8	1487.2	1552.0	1559.4	1451.9	1456.3	1444.5	1416.5	1410.7
52.5°	7128.4	3221.8	1484.3	1469.6	1516.7	1435.7	1403.3	1419.5	1415.1	1379.7	1373.8
55°	7586.3	3185.0	1457.8	1469.6	1493.1	1328.2	1357.6	1381.2	1375.3	1350.3	1348.8
57.5°	8141.5	3192.4	1438.6	1474.0	1469.6	1273.7	1312.0	1340.0	1338.5	1331.1	1331.1
60°	8709.8	3195.3	1409.2	1472.5	1441.6	1231.0	1264.9	1304.6	1307.6	1312.0	1312.0
62.5°	8898.3	3067.2	1351.8	1446.0	1379.7	1189.8	1220.7	1275.2	1272.2	1284.0	1285.5
65°	8546.4	2712.3	1266.3	1385.6	1300.2	1160.3	1186.8	1236.9	1220.7	1251.6	1257.5
67.5°	7779.2	2244.1	1133.8	1276.7	1211.9	1129.4	1164.7	1183.9	1154.4	1214.8	1216.3
70°	6723.4	1752.3	966.0	1122.0	1111.7	1097.0	1147.1	1117.6	1076.4	1150.0	1135.3
72.5°	5622.0	1338.5	771.6	917.4	977.7	1048.4	1116.2	1032.2	974.8	996.9	970.4
75°	4223.1	989.5	619.9	718.6	814.3	979.2	1088.2	929.1	840.8	820.2	814.3
77.5°	2152.8	646.4	463.8	537.5	611.1	885.0	1049.9	808.4	696.5	664.1	649.4
80°	768.6	402.0	326.9	371.1	412.3	761.3	917.4	668.5	540.4	534.5	540.4
82.5°	356.3	259.2	219.4	243.0	244.4	508.0	699.4	499.2	410.8	624.3	527.2
85°	153.1	129.6	123.7	120.7	111.9	226.8	393.2	268.0	418.2	187.0	172.3
87.5°	45.6	51.5	45.6	33.9	25.0	25.0	39.8	14.7	10.3	7.4	7.4
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)