

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: P382987

Luminaire Tested: **GLEON-SA3B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16349.6 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

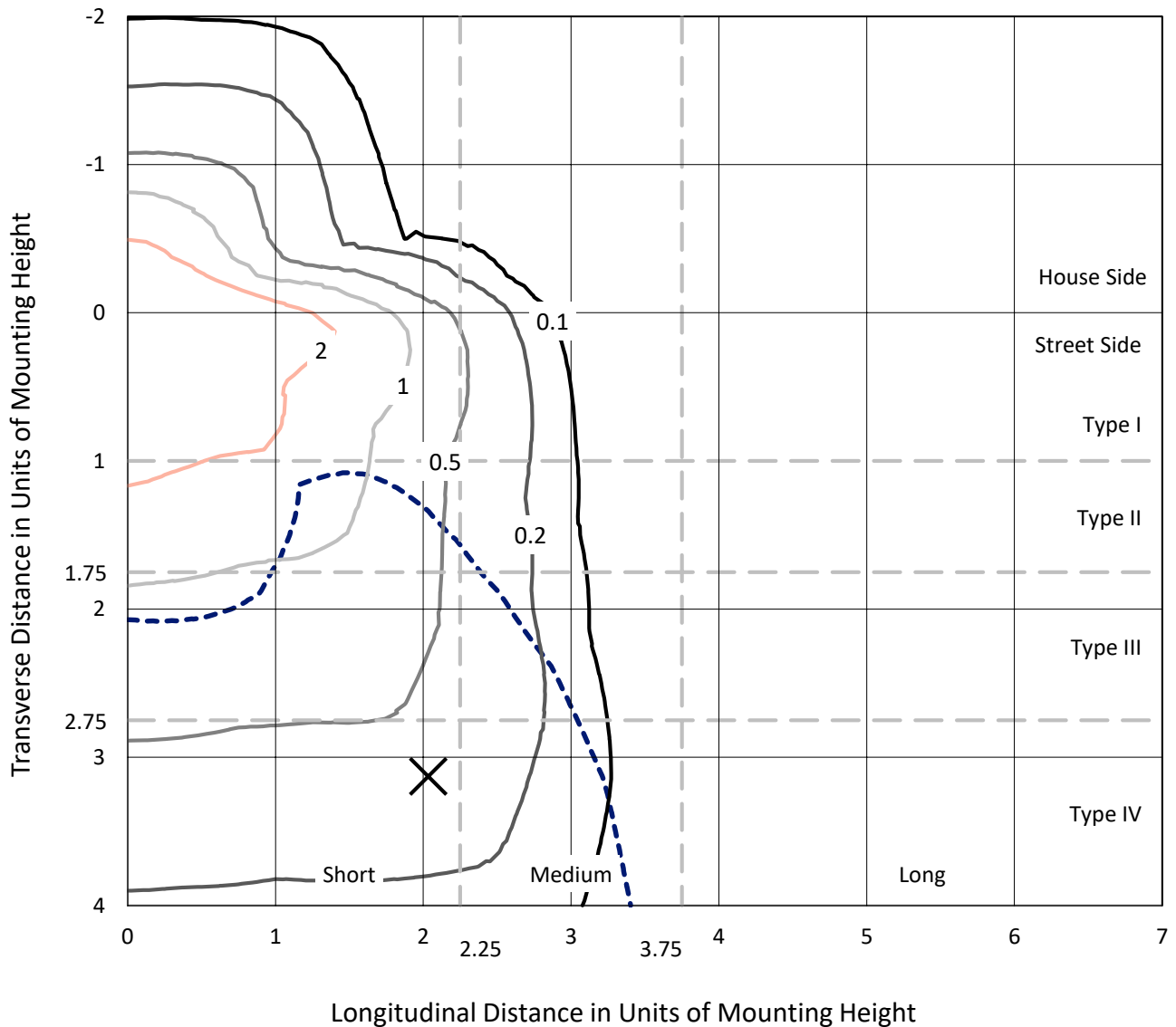
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

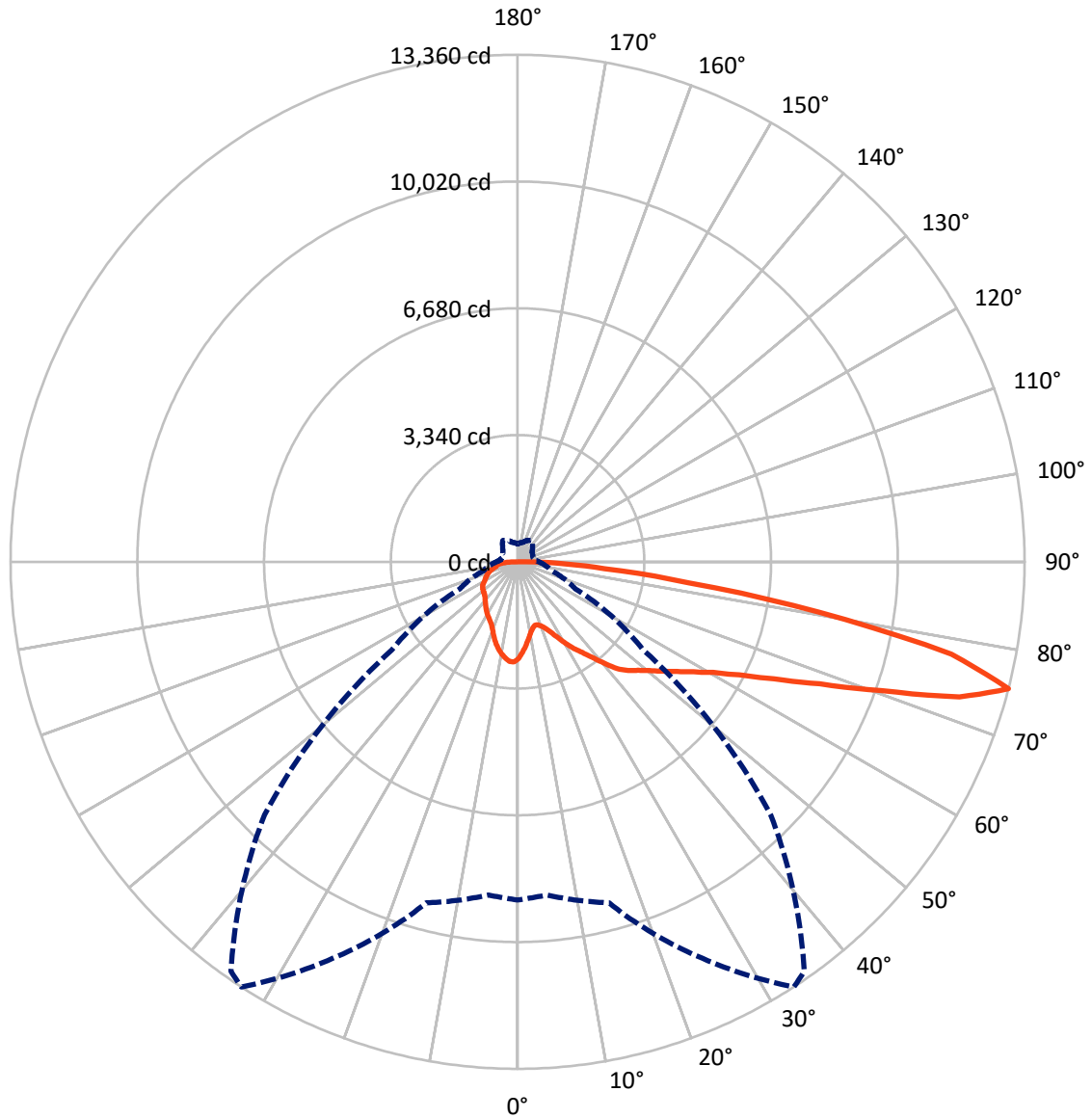
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.7	0.0	3510.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12838.9	0.0	12838.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	16349.6	0.0	16349.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.4
10°-20°	626.0	3.8
20°-30°	1022.3	6.3
30°-40°	1522.4	9.3
40°-50°	2183.6	13.4
50°-60°	2997.7	18.3
60°-70°	3753.0	23.0
70°-80°	3395.1	20.8
80°-90°	618.4	3.8
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°	16349.6	100.0
0°-180°	16349.6	100.0

Coefficient of Utilization



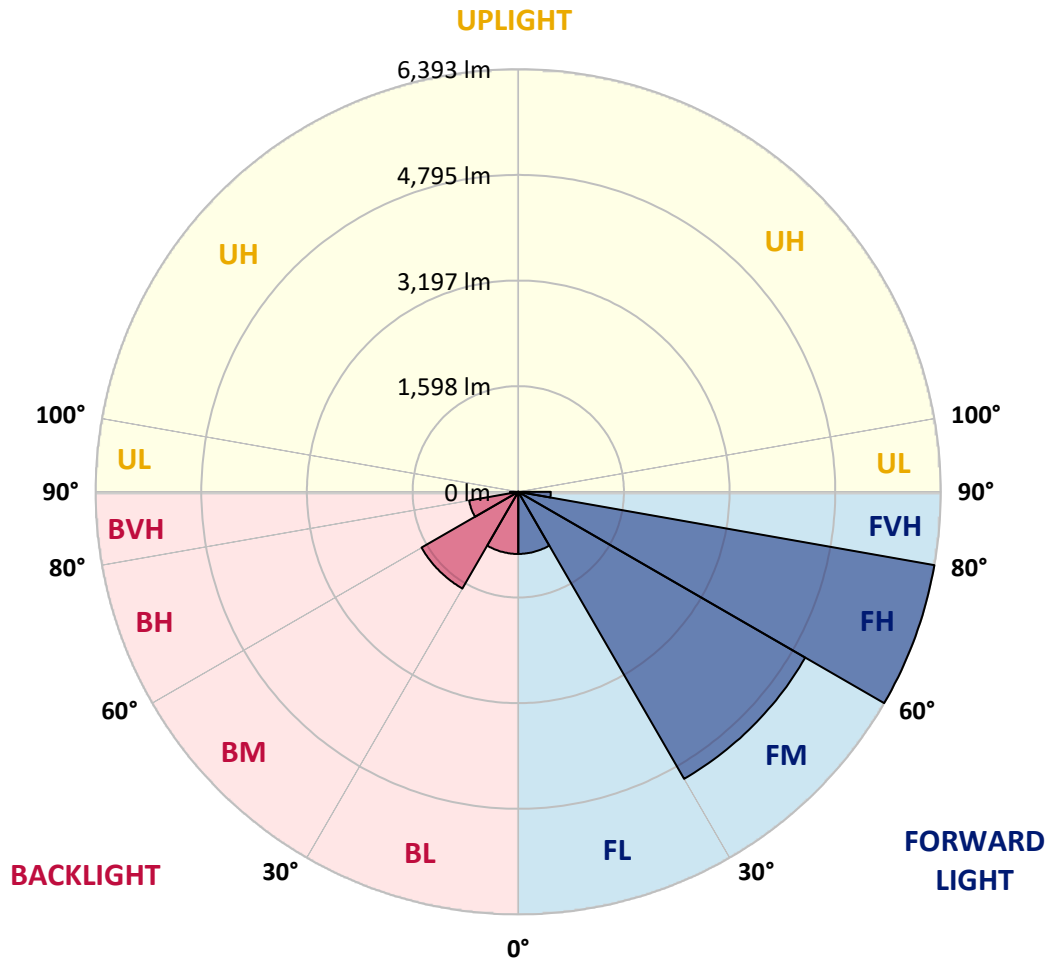
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.0	5.7			
FM (30°-60°)	5014.1	30.7			
FH (60°-80°)	6393.3	39.1			G3/7500
FVH (80°-90°)	492.5	3.0			G3/500
BL (0°-30°)	940.3	5.8	B2/1000		
BM (30°-60°)	1689.6	10.3	B2/2500		
BH (60°-80°)	754.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	125.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
2.5°	2373.1	2364.1	2381.0	2383.3	2398.0	2403.6	2424.0	2455.6	2481.5	2511.5	2538.6
5°	2157.9	2151.7	2175.4	2192.4	2224.6	2238.1	2286.1	2353.4	2413.2	2481.0	2542.6
7.5°	1953.5	1950.1	1976.7	2015.0	2052.3	2070.9	2154.0	2251.7	2351.7	2461.2	2555.5
10°	1781.2	1780.1	1805.5	1843.3	1898.1	1919.1	2026.4	2155.1	2295.1	2446.0	2577.6
12.5°	1684.7	1688.6	1700.4	1732.1	1783.0	1803.8	1923.0	2074.4	2247.7	2440.8	2609.7
15°	1708.4	1714.6	1694.3	1693.2	1729.3	1745.6	1857.5	2016.7	2213.8	2449.3	2656.6
17.5°	1809.5	1810.6	1757.0	1723.1	1745.1	1753.5	1837.2	1984.0	2194.1	2468.6	2715.4
20°	1951.8	1949.0	1854.1	1797.6	1809.5	1811.8	1866.0	1984.6	2192.4	2501.9	2791.6
22.5°	2140.4	2119.6	1991.9	1915.1	1912.3	1908.9	1939.9	2026.4	2217.3	2556.1	2882.5
25°	2386.6	2366.9	2191.3	2086.2	2063.7	2055.2	2059.7	2115.5	2266.4	2614.3	2984.2
27.5°	2660.6	2626.1	2456.7	2308.2	2261.3	2249.4	2222.3	2241.5	2320.0	2670.2	3105.0
30°	2889.8	2871.2	2723.3	2547.0	2491.7	2474.7	2403.6	2382.7	2397.4	2746.4	3257.5
32.5°	3018.0	3005.6	2915.8	2773.5	2722.2	2698.4	2597.9	2556.1	2521.6	2866.7	3464.2
35°	3173.4	3165.5	3111.3	3007.9	2931.7	2906.8	2828.8	2785.4	2696.7	3032.2	3731.3
37.5°	3371.1	3362.6	3363.7	3280.1	3189.2	3166.1	3114.6	3068.9	2923.8	3249.6	4021.7
40°	3594.7	3578.4	3572.1	3568.1	3510.5	3497.6	3470.5	3408.3	3208.4	3509.4	4307.9
42.5°	3931.3	3873.1	3748.8	3795.8	3852.8	3846.0	3868.1	3778.8	3524.7	3816.6	4587.5
45°	4256.1	4160.6	3945.9	3956.1	4080.9	4118.7	4283.7	4220.5	3867.5	4153.2	4876.7
47.5°	4404.0	4331.7	4149.3	4149.9	4273.6	4352.0	4713.4	4668.3	4227.8	4535.6	5229.7
50°	4569.4	4497.1	4333.4	4394.9	4502.8	4586.4	5128.5	5105.4	4570.6	4954.1	5652.6
52.5°	4750.1	4627.6	4523.7	4633.9	4785.2	4882.3	5544.2	5480.9	4885.1	5375.4	6138.9
55°	4752.5	4719.1	4798.2	4879.0	5105.4	5224.6	5979.7	5812.5	5141.6	5789.4	6534.8
57.5°	5023.0	4968.8	5136.5	5173.7	5469.7	5604.1	6412.9	6101.1	5402.5	6106.8	6748.3
60°	5381.0	5334.7	5471.9	5570.2	5920.4	6100.0	6875.4	6397.6	5607.5	6346.2	6738.2
62.5°	5999.4	5946.9	5945.2	6083.0	6554.6	6763.6	7394.3	6688.4	5688.8	6393.7	6450.7
65°	6904.7	6821.2	6663.5	6729.1	7430.5	7639.0	7974.4	6899.1	5581.6	6139.5	5710.3
67.5°	7785.8	7782.9	7589.2	7723.6	8587.2	8754.3	8635.2	6920.0	5246.6	5254.5	4396.6
70°	8664.0	8675.2	8642.5	9110.2	10149.9	10323.8	9338.9	6639.3	4493.8	3794.7	2634.0
72.5°	9359.7	9356.9	9521.8	10727.6	12177.9	12138.9	9931.9	5788.7	3226.5	2048.4	1258.9
75°	8909.0	8810.8	9302.2	11528.5	13360.0	13169.6	9427.5	4038.0	1674.5	932.4	677.7
77.5°	5810.8	5904.0	6625.2	9523.5	11686.0	11454.4	6916.6	1884.1	788.9	611.7	491.3
80°	2104.3	2202.6	3102.2	5394.6	8051.2	8013.4	3406.0	774.3	533.7	462.0	358.1
82.5°	724.0	760.1	1223.9	2395.7	4545.8	4715.2	1281.4	440.0	388.0	327.5	245.1
85°	284.0	325.3	559.7	1152.7	2292.9	2309.9	519.1	263.2	270.0	214.6	134.4
87.5°	107.9	131.1	267.7	535.4	1047.1	961.8	185.8	125.4	153.6	127.6	63.8
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°	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
2.5°	2559.5	2571.4	2596.2	2613.2	2631.2	2636.3	2638.5	2643.1	2647.6	2645.9	2646.4
5°	2575.3	2598.5	2638.5	2655.5	2663.4	2654.4	2636.8	2622.8	2612.6	2606.9	2605.3
7.5°	2601.3	2634.0	2677.0	2674.1	2656.0	2616.0	2570.8	2536.9	2508.7	2498.5	2492.8
10°	2635.7	2674.1	2704.1	2671.9	2619.3	2549.9	2482.1	2429.6	2387.3	2370.9	2368.0
12.5°	2679.8	2718.7	2724.4	2656.0	2569.1	2474.2	2382.2	2312.7	2249.4	2229.1	2224.6
15°	2736.8	2773.5	2738.5	2628.4	2507.0	2379.4	2260.1	2165.8	2099.2	2074.4	2065.3
17.5°	2796.7	2831.7	2741.4	2582.6	2425.7	2266.9	2117.3	2020.7	1944.4	1915.6	1912.3
20°	2868.4	2884.3	2729.4	2517.1	2313.8	2121.2	1963.7	1872.8	1832.1	1811.8	1809.5
22.5°	2957.1	2940.2	2702.3	2428.5	2172.1	1952.9	1824.7	1782.4	1772.2	1767.7	1769.4
25°	3050.8	2998.8	2662.3	2312.7	1993.0	1784.7	1723.1	1734.9	1748.5	1746.8	1746.8
27.5°	3154.2	3058.7	2600.7	2159.0	1794.8	1646.8	1654.1	1697.7	1718.0	1717.4	1716.8
30°	3286.9	3126.5	2522.3	1974.4	1609.5	1549.7	1594.3	1647.4	1675.1	1674.0	1674.5
32.5°	3450.1	3201.1	2415.5	1768.3	1475.8	1478.0	1529.3	1581.9	1614.1	1611.3	1611.9
35°	3641.0	3284.6	2270.9	1564.9	1387.1	1420.9	1461.6	1498.3	1528.8	1524.9	1520.9
37.5°	3848.9	3366.5	2078.8	1383.1	1314.8	1367.9	1401.7	1407.9	1422.1	1411.9	1404.6
40°	4046.5	3429.2	1831.5	1234.0	1241.9	1322.7	1344.7	1319.8	1294.4	1291.0	1280.9
42.5°	4218.8	3450.1	1581.3	1114.9	1165.1	1275.2	1288.8	1236.8	1191.1	1169.7	1160.6
45°	4400.6	3457.4	1348.0	1014.8	1091.1	1232.9	1247.5	1178.1	1113.7	1067.4	1052.2
47.5°	4638.4	3510.5	1166.8	940.9	1034.7	1204.6	1225.5	1131.2	1047.6	981.6	967.4
50°	4949.5	3615.6	1019.4	884.4	998.0	1186.0	1209.7	1085.4	993.4	913.8	899.7
52.5°	5295.2	3712.1	900.2	838.7	962.4	1153.3	1189.4	1052.7	942.5	851.1	835.9
55°	5536.9	3638.2	804.2	791.3	916.1	1106.4	1161.2	1025.1	869.7	790.1	776.5
57.5°	5583.2	3385.2	731.4	742.1	860.1	1047.6	1117.7	963.5	830.2	763.6	749.4
60°	5456.7	3032.7	677.1	696.9	800.3	973.7	1036.3	920.0	792.4	735.3	723.4
62.5°	5138.7	2671.9	637.1	656.3	744.3	898.6	985.5	874.3	754.0	703.1	691.3
65°	4496.6	2243.3	598.6	620.1	692.4	833.5	939.7	831.9	716.1	677.1	665.9
67.5°	3394.2	1680.1	562.5	581.7	646.1	777.1	890.1	790.1	679.4	654.6	641.0
70°	1998.6	1052.2	521.3	541.6	597.5	718.4	837.0	744.3	633.6	622.4	604.9
72.5°	930.2	633.1	474.4	494.2	536.5	639.9	768.6	684.5	579.4	554.6	530.9
75°	555.2	463.1	419.0	436.5	466.5	556.3	682.8	623.5	528.1	495.3	470.4
77.5°	415.1	354.1	358.1	376.7	400.9	486.8	604.9	575.5	488.5	463.1	446.1
80°	298.7	268.8	291.9	312.3	337.7	442.8	579.4	532.0	441.6	407.7	391.9
82.5°	199.4	193.1	219.7	240.6	265.4	387.4	544.4	466.0	377.3	334.3	299.3
85°	110.1	116.4	147.9	157.0	178.5	272.8	446.1	374.4	284.0	228.7	218.5
87.5°	45.7	53.7	79.6	76.9	94.9	162.6	293.7	225.9	180.7	135.0	105.1
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)