

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: P317552

Luminaire Tested: **GLEON-SA8A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 28604 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

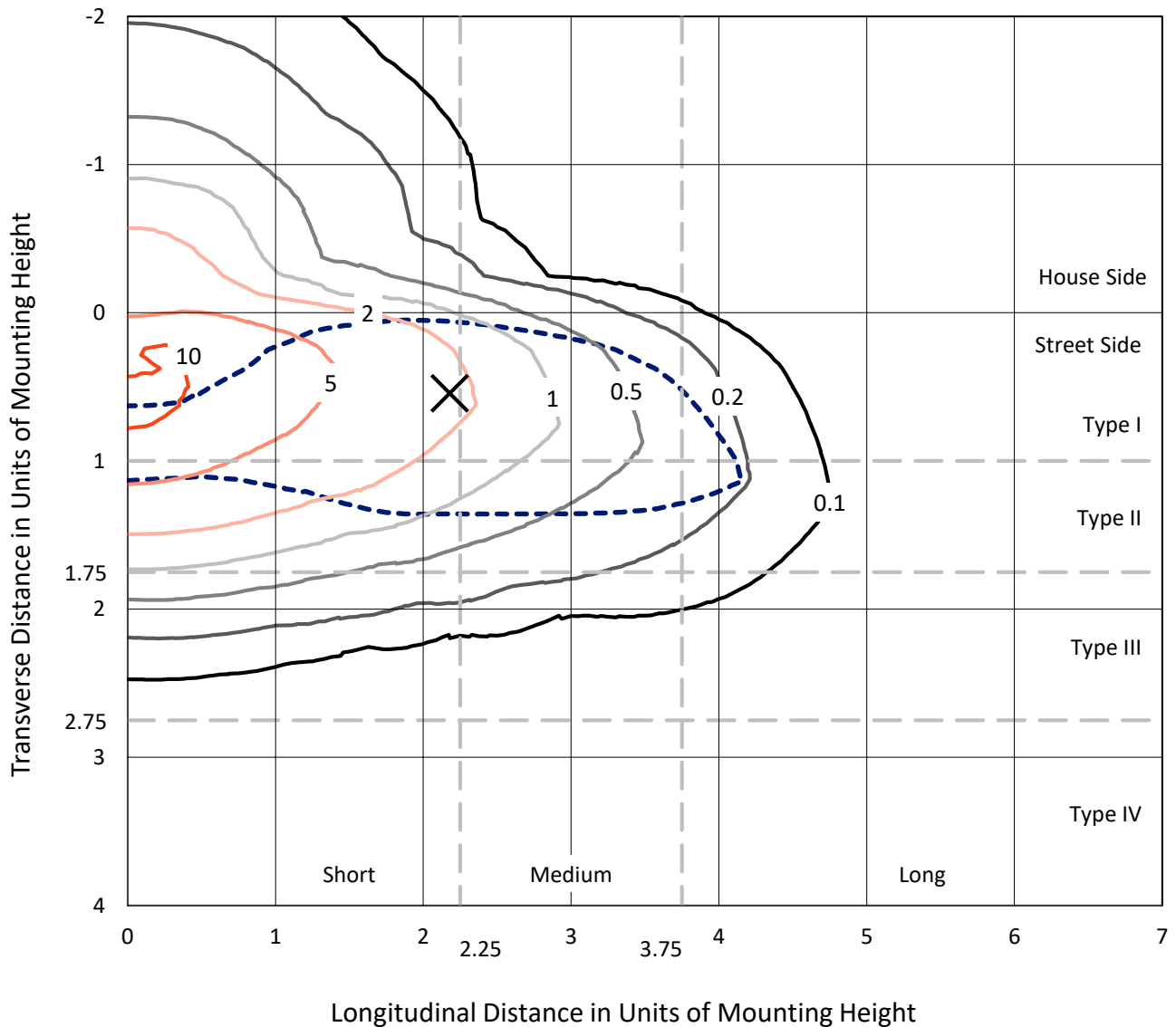
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

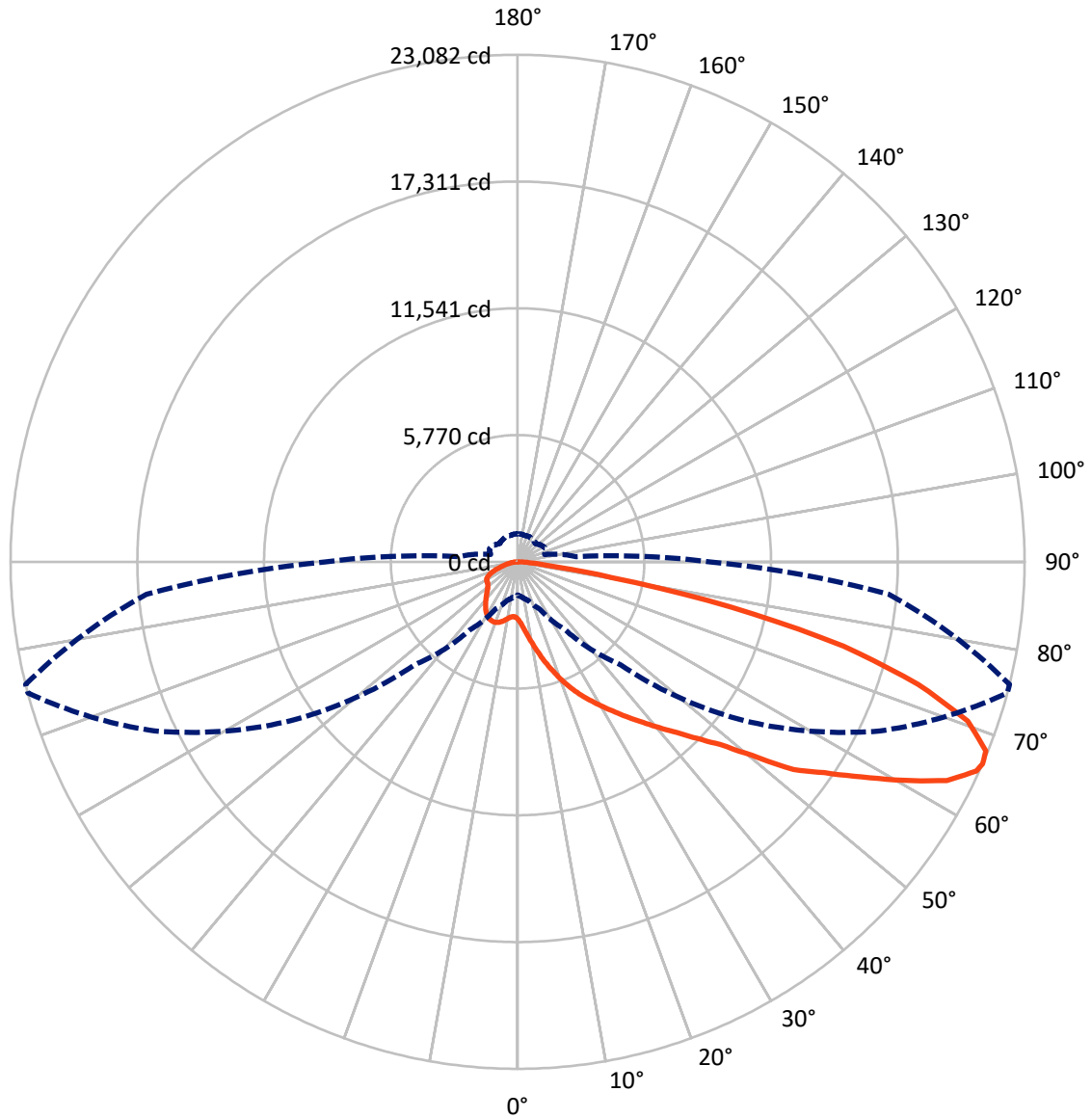
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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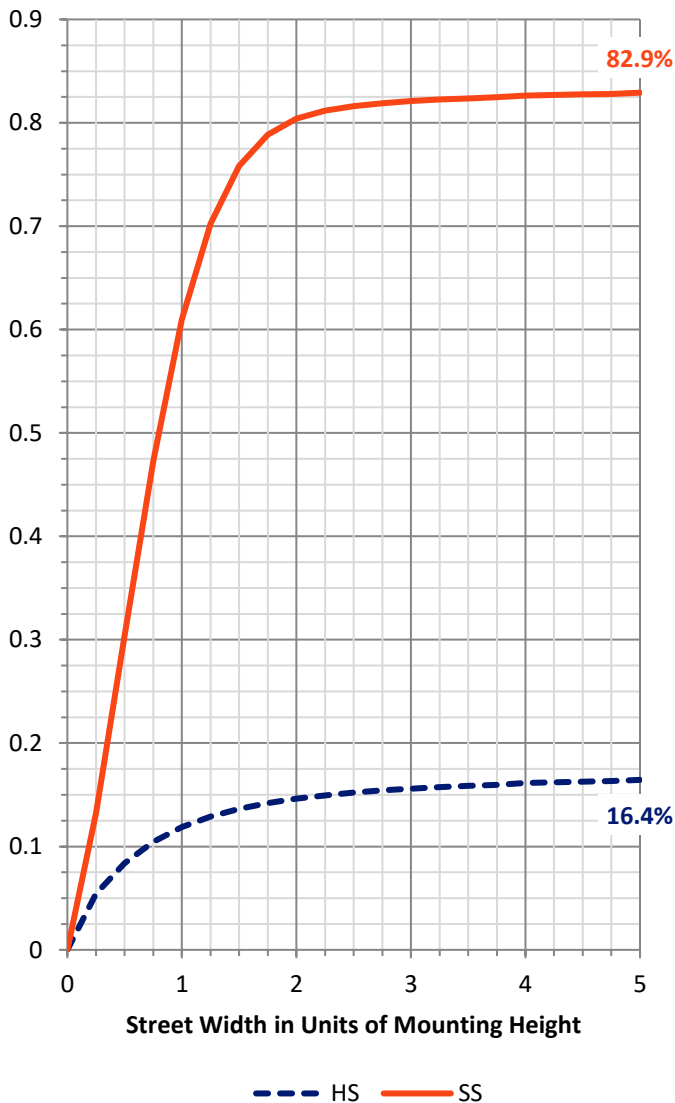
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4813.1	0.0	4813.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23790.9	0.0	23790.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	28604.0	0.0	28604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.1
10°-20°	1247.4	4.4
20°-30°	2424.0	8.5
30°-40°	3956.5	13.8
40°-50°	5405.6	18.9
50°-60°	6296.4	22.0
60°-70°	5644.8	19.7
70°-80°	2852.7	10.0
80°-90°	460.7	1.6
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°	28604.0	100.0
0°-180°	28604.0	100.0

Coefficient of Utilization



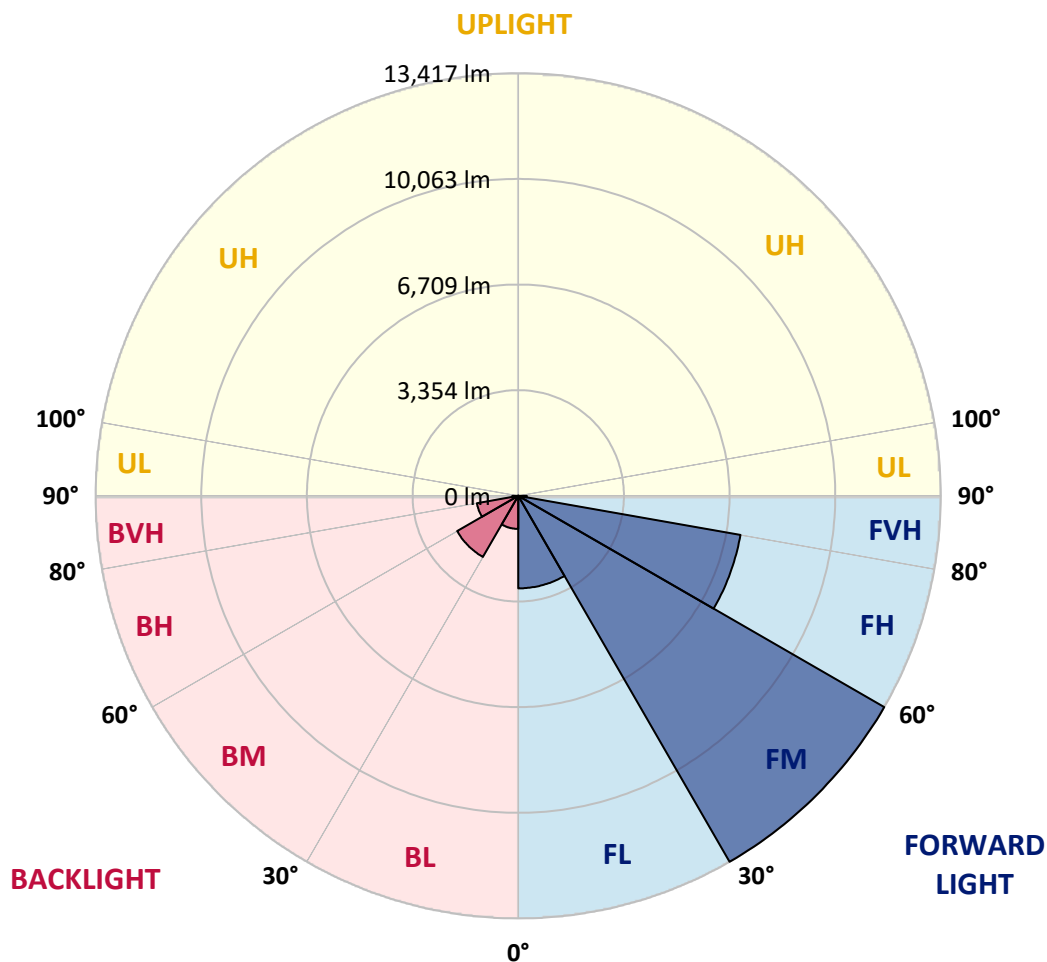
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2937.6	10.3			
FM (30°-60°)	13417.3	46.9			
FH (60°-80°)	7164.1	25.0			G3/7500
FVH (80°-90°)	272.0	1.0			G3/500
BL (0°-30°)	1049.8	3.7	B3/2500		
BM (30°-60°)	2241.3	7.8	B2/2500		
BH (60°-80°)	1333.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	188.6	0.7			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°	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2
2.5°	3467.7	3415.3	3410.4	3333.7	3316.2	3169.6	3061.8	2949.2	2821.0	2795.7	2694.7
5°	4454.3	4449.5	4382.5	4257.2	4159.1	3908.6	3661.0	3398.8	3111.3	3064.7	2837.5
7.5°	5341.9	5334.1	5282.6	5147.7	5005.9	4698.1	4344.6	3942.6	3476.4	3407.5	3030.7
10°	6015.8	6012.9	5995.4	5896.4	5776.0	5480.7	5090.4	4541.7	3900.8	3806.6	3272.5
12.5°	6536.3	6542.1	6553.8	6518.8	6461.5	6210.0	5809.9	5176.8	4353.3	4260.1	3541.5
15°	6888.8	6906.3	6966.5	7016.0	7046.1	6891.7	6504.3	5826.4	4860.2	4748.6	3839.6
17.5°	7066.5	7085.9	7189.8	7339.4	7477.3	7461.7	7153.9	6446.0	5346.7	5238.9	4160.1
20°	7219.9	7234.5	7351.0	7530.7	7774.4	7882.2	7709.4	7042.2	5879.9	5751.7	4500.0
22.5°	7664.7	7683.1	7718.1	7820.1	8035.6	8233.7	8150.2	7606.4	6368.3	6248.9	4822.4
25°	8523.1	8545.5	8469.7	8383.3	8424.1	8562.0	8577.5	8121.1	6863.6	6728.6	5169.0
27.5°	9557.3	9589.4	9460.2	9237.8	9043.6	8990.2	8971.8	8542.5	7336.5	7180.1	5511.8
30°	10570.1	10625.5	10457.5	10169.1	9812.7	9562.2	9376.7	8955.2	7802.6	7653.0	5835.2
32.5°	11559.7	11537.3	11293.6	11012.0	10594.4	10280.8	9832.1	9398.1	8327.0	8155.1	6156.6
35°	12237.5	12245.2	12019.0	11684.9	11286.8	11046.0	10442.0	9875.8	8862.0	8703.7	6521.7
37.5°	12814.3	12778.4	12522.0	12210.3	11867.5	11764.6	11155.7	10402.1	9441.8	9268.9	6910.2
40°	13006.6	12964.8	12796.8	12572.5	12297.7	12288.9	11943.2	10998.4	10097.2	9926.3	7348.1
42.5°	12890.0	12836.6	12767.7	12706.5	12622.0	12660.9	12683.2	11697.6	10817.8	10626.5	7855.0
45°	12459.9	12379.3	12427.8	12560.8	12744.4	12963.8	13351.3	12471.5	11624.7	11464.5	8450.3
47.5°	11798.6	11725.7	11877.2	12161.7	12660.9	13216.3	13983.5	13326.1	12588.0	12428.8	9298.0
50°	10868.3	10889.6	11106.2	11623.8	12378.3	13332.9	14762.3	14457.4	13988.3	13839.8	10454.6
52.5°	9341.7	9345.6	9955.5	10805.1	11877.2	13272.6	15194.4	15903.3	15900.4	15720.7	11555.8
55°	7924.0	8010.4	8493.0	9622.4	11065.4	13031.8	15496.4	16606.3	17156.0	16945.2	12582.2
57.5°	6539.2	6589.7	7047.1	8181.3	9906.9	12389.9	15806.2	17450.2	18602.9	18469.8	13858.2
60°	4964.1	5041.8	5514.7	6562.5	8425.0	11250.9	15835.3	18331.0	20332.4	20198.3	15282.8
62.5°	3222.0	3356.0	3798.8	4780.6	6632.4	9612.7	15159.4	18906.8	21971.5	21923.9	16547.1
65°	1851.8	1952.8	2260.7	3018.1	4575.7	7555.9	13552.3	18685.4	22980.5	22953.3	17020.0
66°	1512.9	1576.1	1812.0	2358.7	3775.5	6635.4	12618.1	18218.3	23080.5	23081.5	16965.6
67.5°	1210.0	1238.1	1344.0	1688.7	2786.0	5259.3	10948.9	17188.0	22956.2	22990.2	16615.1
70°	1001.2	1015.7	1048.8	1132.3	1520.7	3171.5	7771.5	14510.8	21708.4	21734.6	15246.8
72.5°	898.2	907.0	919.6	931.3	1073.0	1772.2	4746.6	11608.2	19033.1	19067.0	13161.9
75°	813.8	818.6	816.7	817.6	900.2	1129.4	2452.9	8666.8	15389.6	15321.6	10082.7
77.5°	714.7	719.6	709.9	711.8	796.3	868.1	1220.6	6067.3	10385.6	9905.9	5680.8
80°	604.0	607.9	604.0	610.8	693.3	655.5	709.9	3413.3	4592.2	4343.6	2019.8
82.5°	456.4	472.9	484.6	511.8	571.0	466.1	474.9	1329.4	1398.3	1331.3	619.5
85°	200.0	243.7	365.1	391.3	429.2	279.7	311.7	541.9	569.0	551.6	225.3
87.5°	52.4	57.3	180.6	227.2	237.9	126.2	162.2	246.7	260.2	246.7	74.8
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°	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2	2612.2
2.5°	2641.3	2593.7	2508.3	2432.5	2375.2	2336.4	2297.6	2278.1	2266.5	2254.8	2256.8
5°	2725.8	2629.7	2483.0	2379.1	2320.9	2284.0	2264.5	2256.8	2251.9	2240.3	2240.3
7.5°	2853.0	2717.1	2515.1	2408.3	2362.6	2334.5	2322.8	2318.9	2313.1	2299.5	2301.4
10°	3013.2	2822.9	2582.1	2478.2	2436.4	2405.4	2388.8	2383.0	2372.3	2356.8	2358.7
12.5°	3201.6	2954.0	2670.5	2561.7	2511.2	2469.4	2442.3	2425.7	2407.3	2386.9	2387.9
15°	3407.5	3096.8	2765.6	2636.5	2567.5	2509.3	2465.6	2437.4	2408.3	2383.0	2382.0
17.5°	3616.3	3234.6	2838.5	2677.3	2584.0	2507.3	2448.1	2404.4	2368.5	2337.4	2334.5
20°	3841.6	3358.9	2879.2	2673.4	2553.0	2461.7	2383.0	2328.6	2288.8	2257.7	2252.9
22.5°	4070.7	3475.5	2886.0	2633.6	2484.0	2372.3	2289.8	2229.6	2188.8	2156.8	2145.1
25°	4280.5	3565.8	2857.9	2556.8	2387.9	2267.5	2186.9	2125.7	2092.7	2054.8	2043.1
27.5°	4471.8	3628.9	2801.5	2458.8	2280.1	2161.6	2085.9	2033.4	1997.5	1968.4	1958.7
30°	4643.7	3662.9	2709.3	2342.2	2169.4	2061.6	1997.5	1961.6	1930.5	1893.6	1886.8
32.5°	4806.8	3662.9	2590.8	2215.0	2059.6	1973.2	1935.4	1913.0	1878.1	1842.1	1832.4
35°	4970.0	3640.6	2451.0	2082.0	1958.7	1910.1	1908.2	1881.9	1828.5	1780.0	1767.4
37.5°	5141.8	3594.9	2293.7	1957.7	1876.1	1881.9	1898.5	1840.2	1764.4	1695.5	1677.0
40°	5336.1	3531.8	2130.5	1849.9	1807.2	1869.3	1872.2	1780.0	1632.4	1569.3	1552.7
42.5°	5564.3	3468.7	1979.0	1754.7	1752.8	1831.4	1822.7	1649.9	1561.5	1529.4	1520.7
45°	5864.3	3432.7	1835.3	1664.4	1710.1	1770.3	1738.2	1578.0	1541.1	1522.6	1514.9
47.5°	6337.2	3451.2	1703.3	1592.6	1667.3	1709.1	1580.9	1548.9	1522.6	1500.3	1492.5
50°	6929.6	3440.5	1596.4	1543.0	1618.8	1645.0	1510.0	1511.0	1497.4	1472.1	1460.5
52.5°	7375.3	3357.0	1527.5	1514.9	1576.1	1531.4	1465.4	1474.1	1467.3	1430.4	1417.8
55°	7805.5	3285.1	1492.5	1504.2	1545.0	1389.6	1412.9	1434.3	1427.5	1391.5	1385.7
57.5°	8340.6	3271.5	1471.2	1507.1	1518.8	1318.7	1362.4	1390.6	1385.7	1370.2	1367.3
60°	8996.0	3275.4	1451.8	1512.0	1489.6	1266.3	1314.8	1350.8	1353.7	1350.8	1348.8
62.5°	9356.3	3169.6	1403.2	1498.4	1438.2	1220.6	1265.3	1317.7	1318.7	1324.5	1323.6
65°	9050.4	2853.0	1312.9	1450.8	1351.7	1182.8	1222.6	1279.9	1265.3	1291.5	1291.5
66°	8753.3	2670.5	1268.2	1419.7	1314.8	1168.2	1209.0	1260.5	1242.0	1277.9	1277.9
67.5°	8146.3	2362.6	1187.6	1353.7	1262.4	1147.8	1193.5	1228.4	1203.2	1256.6	1252.7
70°	7037.4	1827.6	1025.5	1204.1	1176.0	1117.7	1172.1	1164.3	1127.4	1209.0	1193.5
72.5°	5933.3	1388.6	823.5	1008.0	1044.9	1079.8	1142.0	1082.7	1036.1	1093.4	1059.4
75°	4603.9	1043.9	650.6	783.7	882.7	1020.6	1106.1	988.6	921.5	915.7	897.3
77.5°	2488.9	716.7	515.6	598.2	701.1	946.8	1081.8	887.6	786.6	763.3	748.7
80°	985.6	466.1	374.8	453.5	490.4	840.0	1023.5	770.1	648.7	625.4	603.0
82.5°	406.9	275.8	241.8	303.9	319.5	718.6	918.6	631.2	501.1	693.3	736.1
85°	174.8	151.5	143.7	157.3	180.6	504.0	731.2	481.7	540.9	482.6	383.6
87.5°	52.4	64.1	61.2	60.2	66.0	120.4	389.4	268.0	397.2	150.5	112.6
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)