

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: P317553

Luminaire Tested: **GLEON-SA9A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317553
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-SA9A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 31907 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

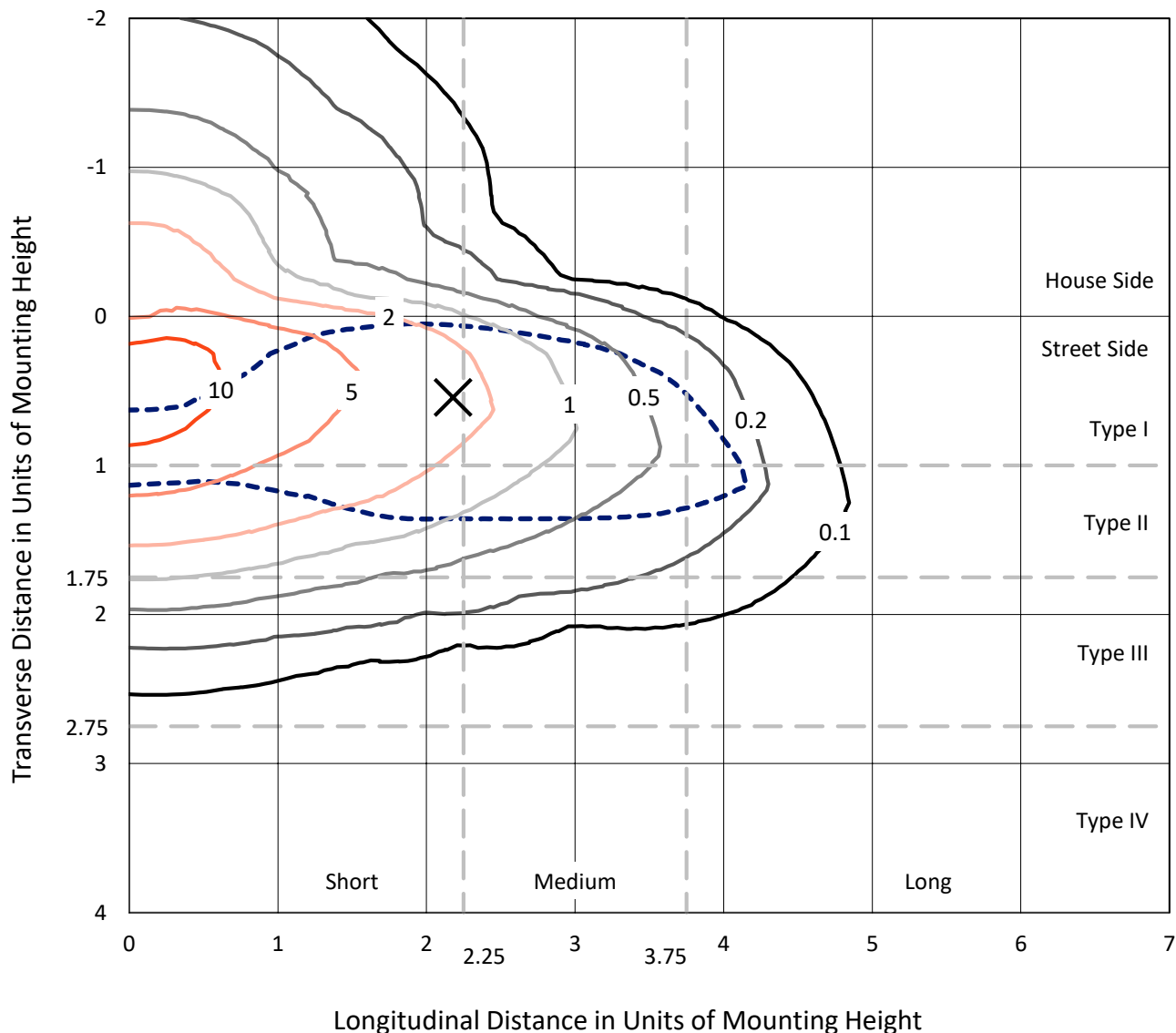
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

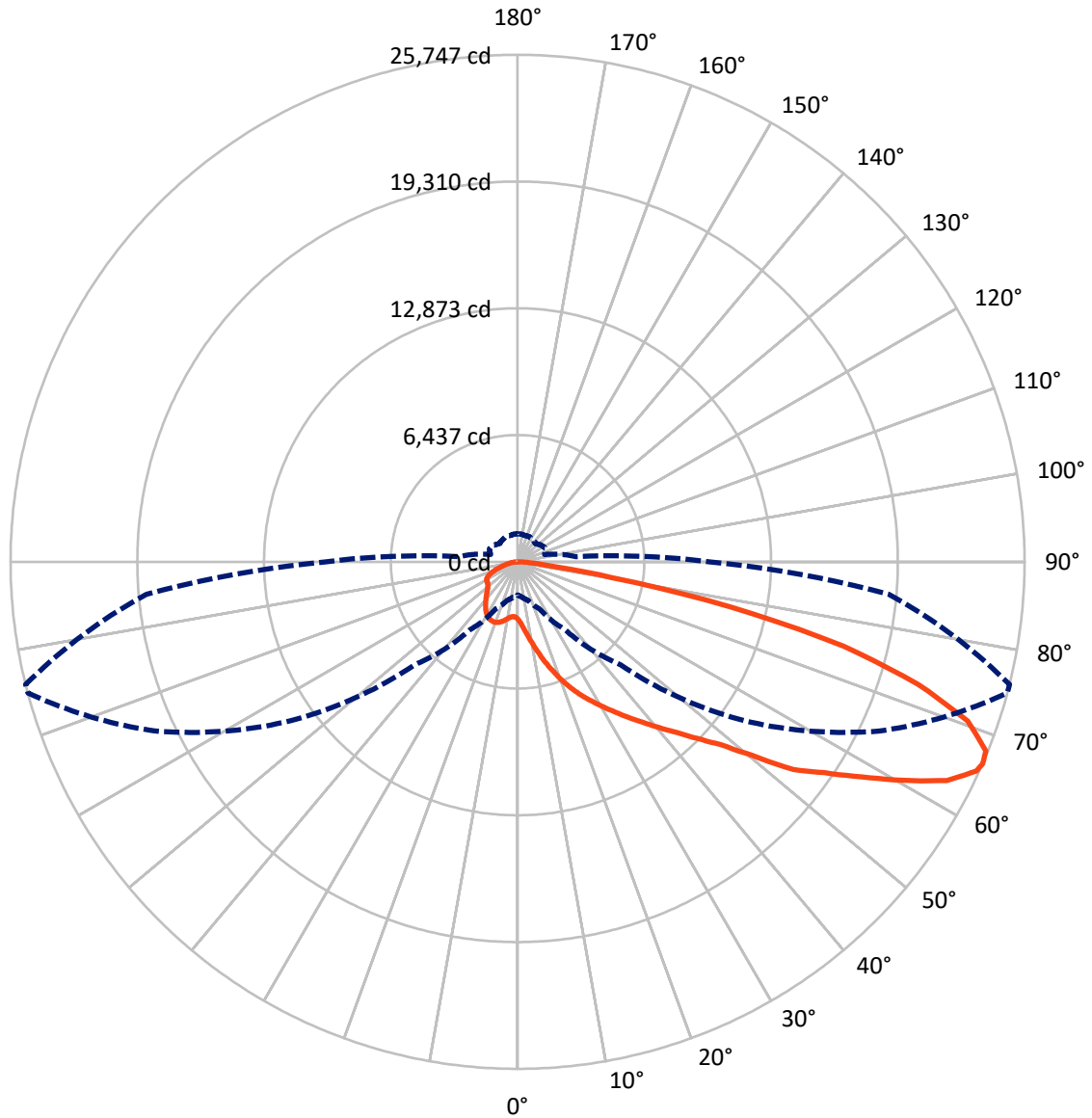
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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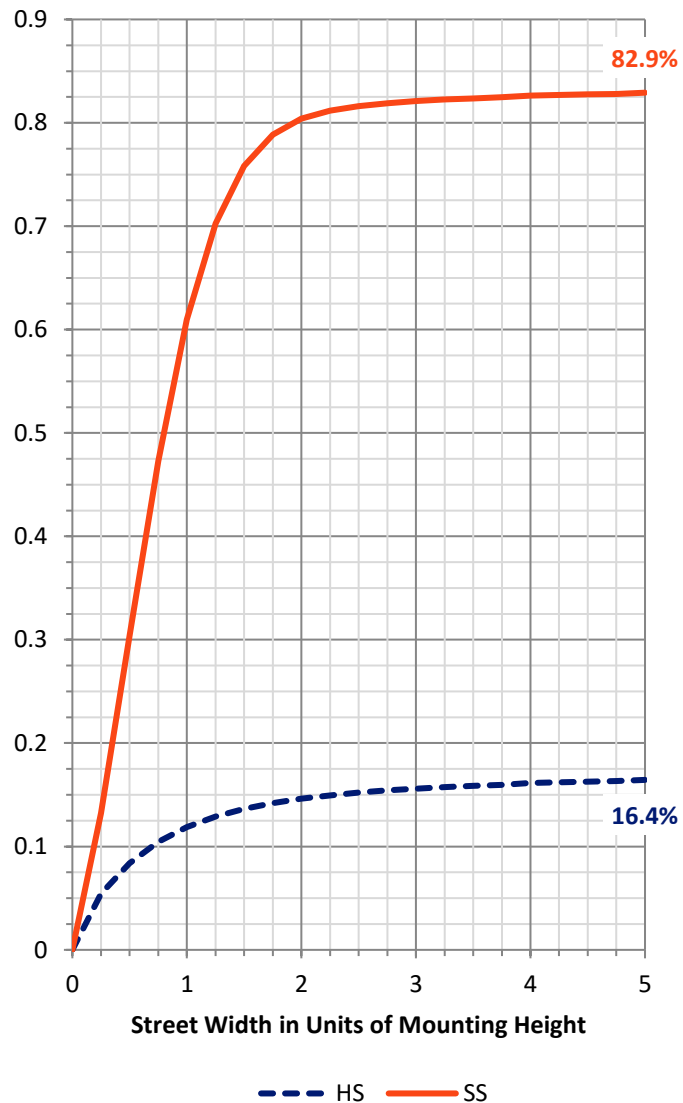
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5368.9	0.0	5368.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26538.1	0.0	26538.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	31907.0	0.0	31907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.1
10°-20°	1391.5	4.4
20°-30°	2703.9	8.5
30°-40°	4413.4	13.8
40°-50°	6029.8	18.9
50°-60°	7023.5	22.0
60°-70°	6296.7	19.7
70°-80°	3182.1	10.0
80°-90°	513.9	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°	31907.0	100.0
0°-180°	31907.0	100.0

Coefficient of Utilization



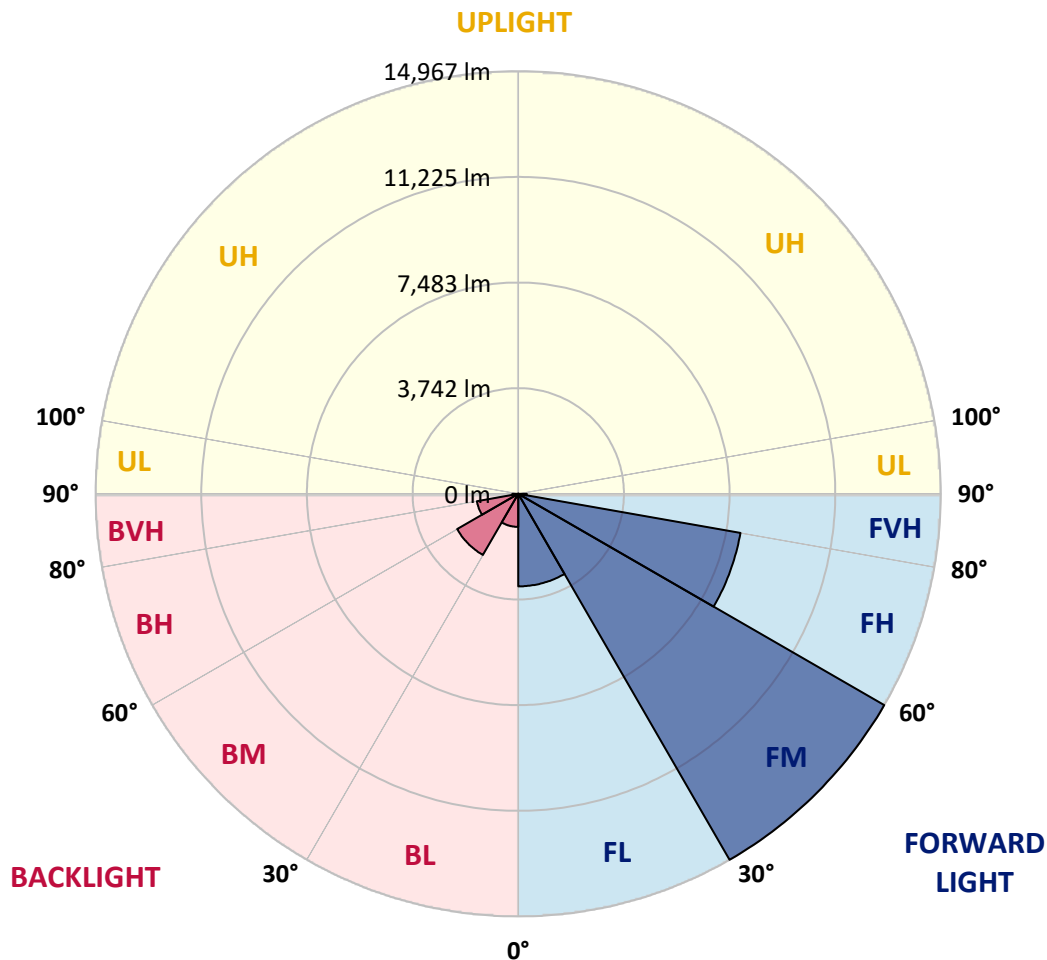
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.8	10.3			
FM (30°-60°)	14966.6	46.9			
FH (60°-80°)	7991.3	25.0			G4/12000
FVH (80°-90°)	303.5	1.0			G3/500
BL (0°-30°)	1171.0	3.7	B3/2500		
BM (30°-60°)	2500.1	7.8	B3/5000		
BH (60°-80°)	1487.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	210.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8
2.5°	3868.1	3809.6	3804.2	3718.7	3699.2	3535.6	3415.4	3289.7	3146.7	3118.6	3005.9
5°	4968.7	4963.3	4888.5	4748.8	4639.4	4359.9	4083.7	3791.2	3470.6	3418.6	3165.1
7.5°	5958.7	5950.1	5892.6	5742.1	5583.9	5240.6	4846.3	4397.8	3877.9	3801.0	3380.7
10°	6710.5	6707.2	6687.7	6577.2	6442.9	6113.6	5678.2	5066.2	4351.2	4246.2	3650.4
12.5°	7291.1	7297.6	7310.6	7271.6	7207.7	6927.1	6480.8	5774.6	4856.0	4752.0	3950.5
15°	7684.3	7703.8	7770.9	7826.2	7859.8	7687.5	7255.3	6499.2	5421.5	5296.9	4283.0
17.5°	7882.5	7904.2	8020.1	8186.9	8340.7	8323.4	7980.0	7190.3	5964.1	5843.9	4640.5
20°	8053.6	8069.9	8199.9	8400.3	8672.2	8792.4	8599.6	7855.4	6558.8	6415.8	5019.6
22.5°	8549.8	8570.3	8609.3	8723.1	8963.5	9184.5	9091.4	8484.8	7103.7	6970.4	5379.2
25°	9507.3	9532.2	9447.7	9351.3	9396.8	9550.6	9568.0	9058.9	7656.1	7505.5	5765.9
27.5°	10660.9	10696.7	10552.6	10304.6	10087.9	10028.3	10007.8	9529.0	8183.6	8009.2	6148.3
30°	11790.7	11852.5	11665.1	11343.4	10945.8	10666.3	10459.5	9989.3	8703.6	8536.8	6509.0
32.5°	12894.5	12869.6	12597.7	12283.6	11817.8	11467.9	10967.5	10483.3	9288.5	9096.8	6867.5
35°	13650.6	13659.2	13406.9	13034.2	12590.1	12321.5	11647.7	11016.2	9885.4	9708.8	7274.8
37.5°	14294.0	14253.9	13968.0	13620.3	13237.9	13123.1	12443.9	11603.3	10532.0	10339.2	7708.1
40°	14508.5	14461.9	14274.5	14024.3	13717.7	13708.0	13322.4	12268.4	11263.2	11072.5	8196.6
42.5°	14378.5	14318.9	14242.0	14173.8	14079.5	14122.9	14147.8	13048.3	12066.9	11853.5	8762.1
45°	13898.6	13808.7	13862.9	14011.3	14216.0	14460.8	14893.0	13911.6	12967.1	12788.4	9426.1
47.5°	13161.0	13079.7	13248.7	13566.1	14122.9	14742.5	15598.2	14864.9	14041.6	13864.0	10371.7
50°	12123.3	12147.1	12388.6	12966.0	13807.6	14872.4	16466.9	16126.8	15603.6	15437.9	11661.8
52.5°	10420.5	10424.8	11105.0	12052.9	13248.7	14805.3	16949.0	17739.7	17736.4	17536.0	12890.2
55°	8839.0	8935.4	9473.7	10733.5	12343.2	14536.6	17285.8	18523.9	19137.0	18902.0	14035.1
57.5°	7294.3	7350.6	7860.8	9126.0	11050.9	13820.6	17631.4	19465.2	20751.0	20602.6	15458.5
60°	5537.4	5624.0	6151.5	7320.3	9397.9	12550.0	17663.9	20447.7	22680.2	22530.7	17047.5
62.5°	3594.1	3743.6	4237.5	5332.6	7398.3	10722.7	16910.0	21090.1	24508.7	24455.6	18457.9
65°	2065.7	2178.3	2521.7	3366.6	5104.1	8428.4	15117.2	20843.1	25634.1	25603.8	18985.4
66°	1687.6	1758.0	2021.3	2631.1	4211.5	7401.6	14075.2	20322.1	25745.7	25746.8	18924.7
67.5°	1349.7	1381.1	1499.2	1883.7	3107.7	5866.7	12213.2	19172.8	25607.0	25644.9	18533.7
70°	1116.8	1133.0	1169.9	1263.0	1696.3	3537.8	8668.9	16186.4	24215.1	24244.4	17007.4
72.5°	1002.0	1011.7	1025.8	1038.8	1196.9	1976.9	5294.7	12948.7	21230.9	21268.8	14681.8
75°	907.7	913.1	911.0	912.1	1004.1	1259.8	2736.2	9667.6	17166.7	17090.9	11246.9
77.5°	797.2	802.7	791.8	794.0	888.2	968.4	1361.6	6767.9	11584.9	11049.8	6336.8
80°	673.8	678.1	673.8	681.3	773.4	731.2	791.8	3807.5	5122.5	4845.2	2253.1
82.5°	509.1	527.5	540.5	570.9	636.9	519.9	529.7	1482.9	1559.8	1485.1	691.1
85°	223.1	271.9	407.3	436.5	478.8	312.0	347.7	604.4	634.8	615.3	251.3
87.5°	58.5	63.9	201.5	253.5	265.4	140.8	180.9	275.1	290.3	275.1	83.4
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°	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8	2913.8
2.5°	2946.3	2893.2	2797.9	2713.4	2649.5	2606.2	2562.9	2541.2	2528.2	2515.2	2517.4
5°	3040.6	2933.3	2769.8	2653.9	2588.9	2547.7	2526.0	2517.4	2512.0	2499.0	2499.0
7.5°	3182.5	3030.8	2805.5	2686.4	2635.4	2604.0	2591.0	2586.7	2580.2	2565.0	2567.2
10°	3361.2	3148.9	2880.2	2764.3	2717.8	2683.1	2664.7	2658.2	2646.3	2628.9	2631.1
12.5°	3571.3	3295.1	2978.8	2857.5	2801.2	2754.6	2724.3	2705.9	2685.3	2662.5	2663.6
15°	3801.0	3454.3	3085.0	2940.9	2864.0	2799.0	2750.3	2718.9	2686.4	2658.2	2657.1
17.5°	4033.9	3608.2	3166.2	2986.4	2882.4	2796.8	2730.8	2682.0	2641.9	2607.3	2604.0
20°	4285.2	3746.8	3211.7	2982.1	2847.8	2745.9	2658.2	2597.5	2553.1	2518.5	2513.0
22.5°	4540.8	3876.8	3219.3	2937.7	2770.8	2646.3	2554.2	2487.0	2441.6	2405.8	2392.8
25°	4774.8	3977.5	3187.9	2852.1	2663.6	2529.3	2439.4	2371.1	2334.3	2292.1	2279.1
27.5°	4988.2	4047.9	3125.1	2742.7	2543.4	2411.2	2326.7	2268.2	2228.2	2195.7	2184.8
30°	5179.9	4085.9	3022.1	2612.7	2419.9	2299.6	2228.2	2188.1	2153.4	2112.3	2104.7
32.5°	5361.9	4085.9	2890.0	2470.8	2297.5	2201.1	2158.8	2133.9	2094.9	2054.8	2044.0
35°	5543.9	4060.9	2734.0	2322.4	2184.8	2130.7	2128.5	2099.3	2039.7	1985.5	1971.4
37.5°	5735.6	4010.0	2558.5	2183.7	2092.8	2099.3	2117.7	2052.7	1968.2	1891.3	1870.7
40°	5952.2	3939.6	2376.6	2063.5	2015.8	2085.2	2088.4	1985.5	1820.9	1750.5	1732.0
42.5°	6206.8	3869.2	2207.6	1957.4	1955.2	2042.9	2033.2	1840.4	1741.8	1706.1	1696.3
45°	6541.5	3829.1	2047.3	1856.6	1907.5	1974.7	1938.9	1760.2	1719.1	1698.5	1689.8
47.5°	7069.0	3849.7	1899.9	1776.5	1859.9	1906.4	1763.5	1727.7	1698.5	1673.6	1664.9
50°	7729.8	3837.8	1780.8	1721.2	1805.7	1835.0	1684.4	1685.5	1670.3	1642.1	1629.1
52.5°	8227.0	3744.6	1703.9	1689.8	1758.0	1708.2	1634.6	1644.3	1636.7	1595.6	1581.5
55°	8706.8	3664.5	1664.9	1677.9	1723.4	1550.1	1576.1	1599.9	1592.3	1552.2	1545.7
57.5°	9303.7	3649.3	1641.1	1681.1	1694.1	1471.0	1519.7	1551.2	1545.7	1528.4	1525.2
60°	10034.8	3653.7	1619.4	1686.6	1661.6	1412.5	1466.7	1506.7	1510.0	1506.7	1504.6
62.5°	10436.7	3535.6	1565.2	1671.4	1604.2	1361.6	1411.4	1469.9	1471.0	1477.5	1476.4
65°	10095.5	3182.5	1464.5	1618.3	1507.8	1319.3	1363.8	1427.7	1411.4	1440.7	1440.7
66°	9764.0	2978.8	1414.7	1583.6	1466.7	1303.1	1348.6	1406.0	1385.4	1425.5	1425.5
67.5°	9087.0	2635.4	1324.8	1510.0	1408.2	1280.4	1331.3	1370.3	1342.1	1401.7	1397.3
70°	7850.0	2038.6	1143.9	1343.2	1311.8	1246.8	1307.4	1298.8	1257.6	1348.6	1331.3
72.5°	6618.4	1549.0	918.6	1124.4	1165.5	1204.5	1273.9	1207.8	1155.8	1219.7	1181.8
75°	5135.5	1164.4	725.7	874.1	984.6	1138.5	1233.8	1102.7	1028.0	1021.5	1000.9
77.5°	2776.3	799.4	575.2	667.3	782.1	1056.1	1206.7	990.1	877.4	851.4	835.2
80°	1099.5	519.9	418.1	505.9	547.0	937.0	1141.7	859.0	723.6	697.6	672.7
82.5°	453.9	307.6	269.7	339.0	356.4	801.6	1024.7	704.1	558.9	773.4	821.1
85°	195.0	169.0	160.3	175.5	201.5	562.2	815.7	537.3	603.3	538.4	427.9
87.5°	58.5	71.5	68.2	67.2	73.7	134.3	434.4	299.0	443.0	167.9	125.7
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)