

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: P317554

Luminaire Tested: **GLEON-SA0A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317554
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-SA0A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 35326 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

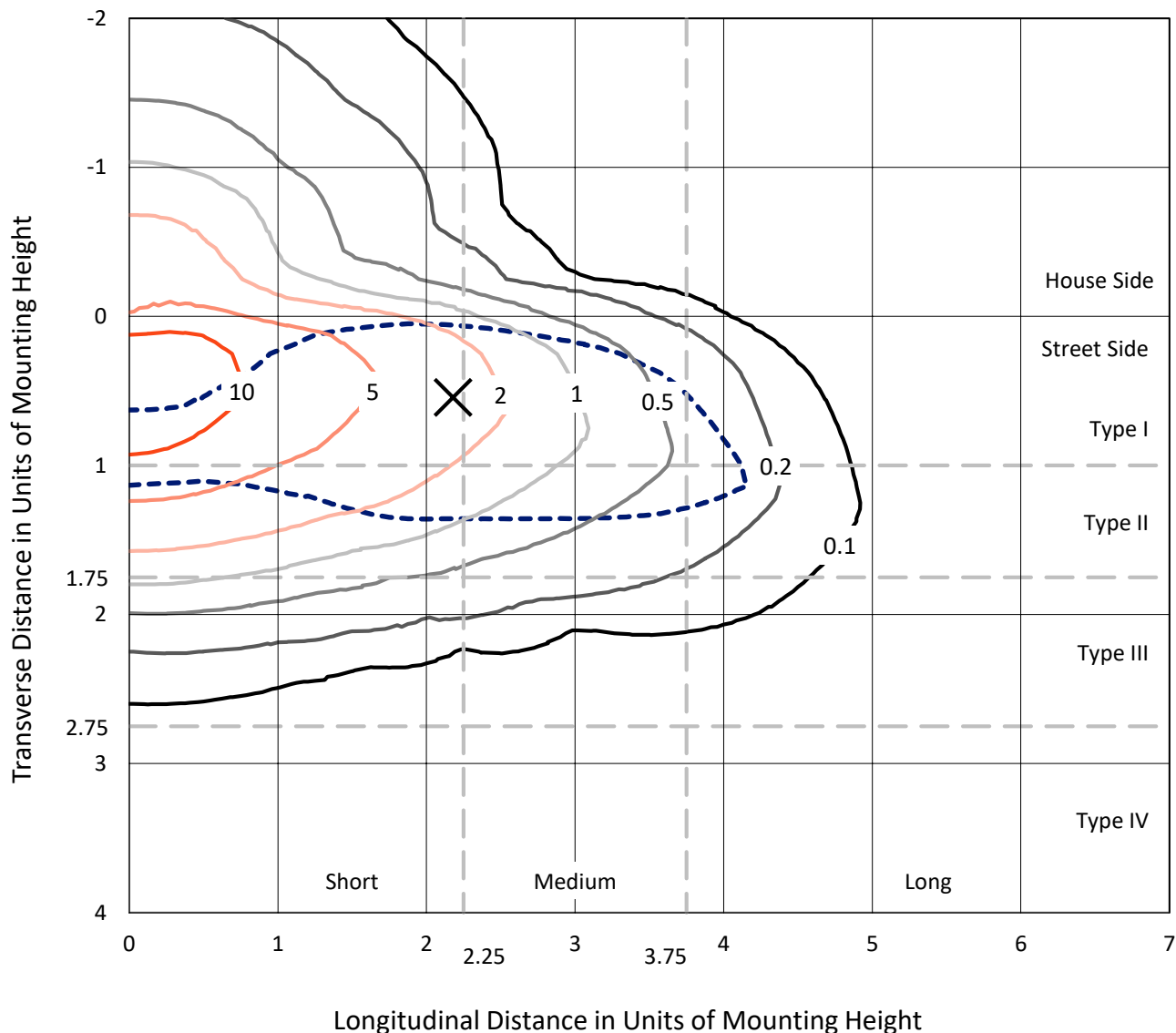
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

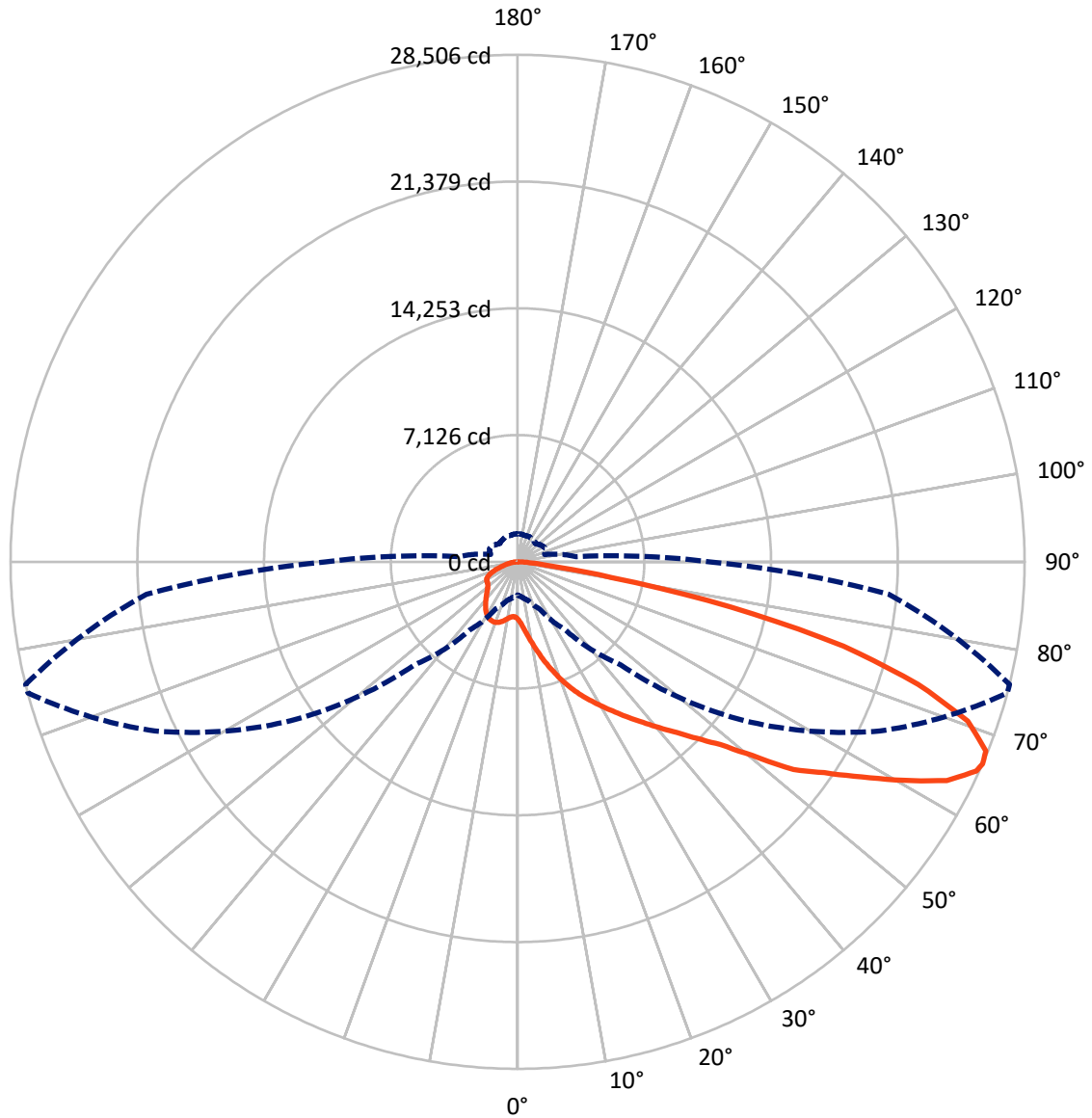
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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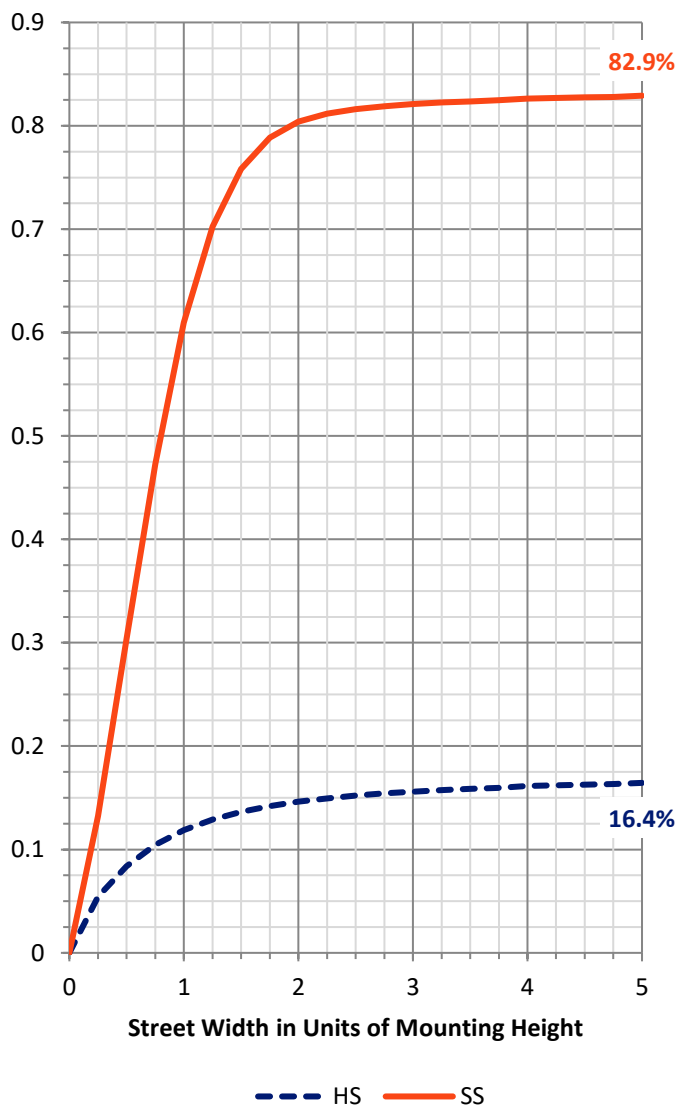
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5944.2	0.0	5944.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29381.8	0.0	29381.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	35326.0	0.0	35326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	1.1
10°-20°	1540.6	4.4
20°-30°	2993.7	8.5
30°-40°	4886.3	13.8
40°-50°	6675.9	18.9
50°-60°	7776.1	22.0
60°-70°	6971.4	19.7
70°-80°	3523.1	10.0
80°-90°	568.9	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°	35326.0	100.0
0°-180°	35326.0	100.0

Coefficient of Utilization



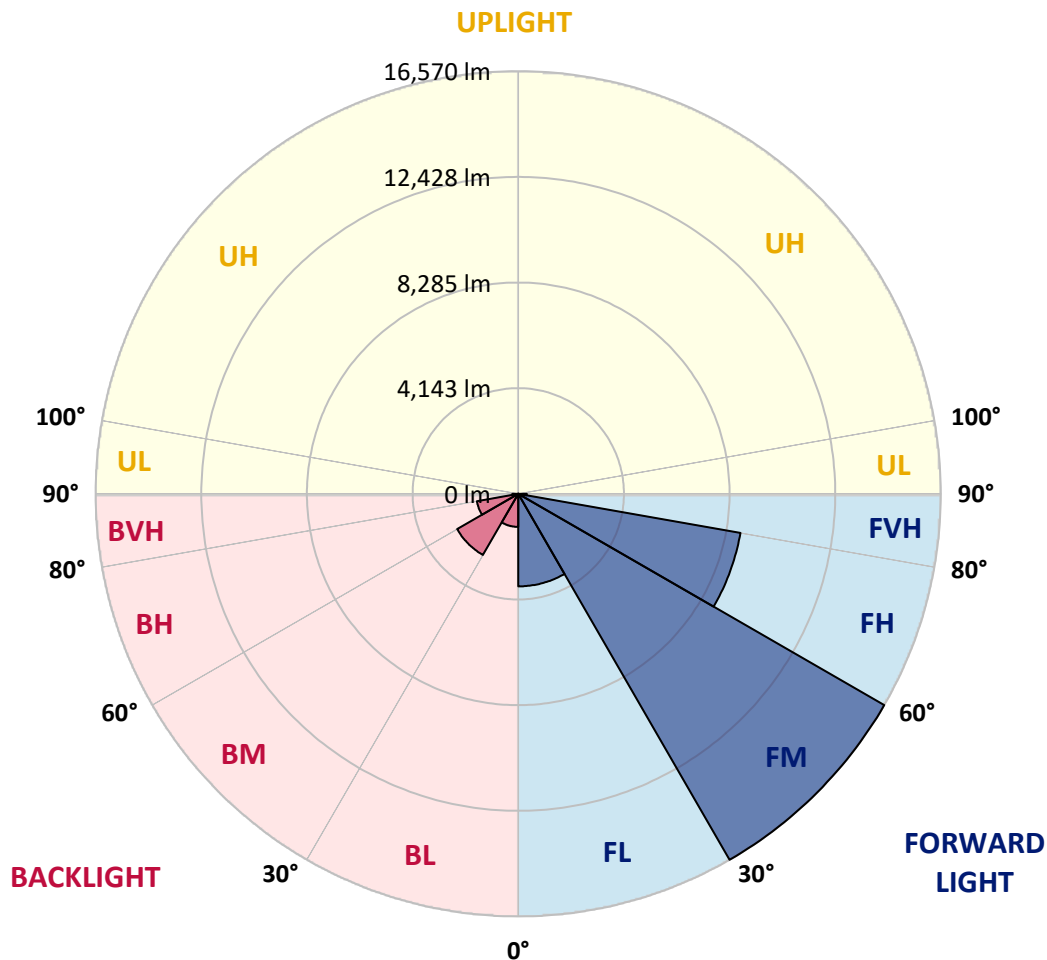
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3627.9	10.3			
FM (30°-60°)	16570.3	46.9			
FH (60°-80°)	8847.6	25.0			G4/12000
FVH (80°-90°)	336.0	1.0			G3/500
BL (0°-30°)	1296.4	3.7	B3/2500		
BM (30°-60°)	2768.0	7.8	B3/5000		
BH (60°-80°)	1646.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	232.9	0.7			G3/500
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°	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1
2.5°	4282.6	4217.9	4211.9	4117.1	4095.5	3914.4	3781.3	3642.2	3483.9	3452.7	3328.0
5°	5501.1	5495.1	5412.3	5257.6	5136.5	4827.1	4521.3	4197.5	3842.5	3784.9	3504.3
7.5°	6597.2	6587.6	6524.1	6357.4	6182.3	5802.1	5365.6	4869.1	4293.4	4208.3	3742.9
10°	7429.5	7425.9	7404.3	7282.0	7133.3	6768.7	6286.6	5609.0	4817.5	4701.2	4041.6
12.5°	8072.3	8079.5	8093.9	8050.8	7980.0	7669.4	7175.3	6393.4	5376.4	5261.2	4373.8
15°	8507.7	8529.3	8603.6	8664.8	8702.0	8511.3	8032.8	7195.7	6002.4	5864.5	4741.9
17.5°	8727.2	8751.1	8879.5	9064.2	9234.4	9215.3	8835.1	7960.8	6603.2	6470.1	5137.7
20°	8916.6	8934.6	9078.5	9300.4	9601.4	9734.5	9521.1	8697.2	7261.6	7103.3	5557.5
22.5°	9465.9	9488.7	9531.9	9657.8	9924.0	10168.7	10065.5	9394.0	7864.9	7717.4	5955.6
25°	10526.1	10553.7	10460.1	10353.4	10403.7	10574.0	10593.2	10029.6	8476.5	8309.8	6383.8
27.5°	11803.3	11842.9	11683.4	11408.7	11168.9	11102.9	11080.1	10550.1	9060.6	8867.5	6807.1
30°	13054.2	13122.5	12915.0	12558.8	12118.7	11809.3	11580.2	11059.8	9636.2	9451.5	7206.5
32.5°	14276.2	14248.6	13947.6	13599.8	13084.1	12696.8	12142.7	11606.6	10283.8	10071.5	7603.4
35°	15113.3	15122.9	14843.5	14430.9	13939.2	13641.8	12895.8	12196.7	10944.6	10749.1	8054.4
37.5°	15825.7	15781.3	15464.7	15079.7	14656.4	14529.3	13777.3	12846.7	11660.6	11447.1	8534.1
40°	16063.1	16011.6	15804.1	15527.1	15187.7	15176.9	14749.9	13583.0	12470.1	12259.0	9074.9
42.5°	15919.2	15853.3	15768.1	15692.6	15588.2	15636.2	15663.8	14446.5	13360.0	13123.7	9701.0
45°	15387.9	15288.4	15348.4	15512.7	15739.3	16010.4	16488.9	15402.3	14356.6	14158.7	10436.1
47.5°	14571.2	14481.3	14668.4	15019.8	15636.2	16322.2	17269.6	16457.7	15546.3	15349.6	11483.1
50°	13422.3	13448.7	13716.2	14355.4	15287.2	16466.1	18231.4	17854.9	17275.6	17092.1	12911.4
52.5°	11537.1	11541.9	12295.0	13344.4	14668.4	16391.7	18765.1	19640.6	19637.0	19415.1	14271.4
55°	9786.1	9892.9	10488.9	11883.7	13665.8	16094.3	19138.1	20508.9	21187.7	20927.4	15539.1
57.5°	8075.9	8138.3	8703.2	10103.9	12235.0	15301.6	19520.7	21551.0	22974.6	22810.3	17114.9
60°	6130.7	6226.7	6810.7	8104.7	10404.9	13894.8	19556.6	22638.8	25110.5	24945.0	18874.3
62.5°	3979.2	4144.7	4691.6	5904.1	8191.1	11871.7	18721.9	23350.0	27134.9	27076.1	20435.7
65°	2287.0	2411.8	2791.9	3727.4	5651.0	9331.6	16737.1	23076.5	28380.9	28347.4	21019.8
66°	1868.5	1946.4	2237.9	2913.0	4662.8	8194.7	15583.4	22499.7	28504.5	28505.7	20952.6
67.5°	1494.3	1529.1	1659.8	2085.5	3440.7	6495.3	13521.9	21227.2	28351.0	28392.9	20519.7
70°	1236.5	1254.4	1295.2	1398.4	1878.1	3916.8	9597.8	17920.8	26809.9	26842.3	18829.9
72.5°	1109.3	1120.1	1135.7	1150.1	1325.2	2188.7	5862.1	14336.2	23505.9	23547.8	16255.0
75°	1005.0	1011.0	1008.6	1009.8	1111.7	1394.8	3029.4	10703.6	19006.2	18922.2	12452.1
77.5°	882.7	888.7	876.7	879.1	983.4	1072.2	1507.5	7493.1	12826.3	12233.8	7015.8
80°	746.0	750.7	746.0	754.3	856.3	809.5	876.7	4215.5	5671.4	5364.4	2494.5
82.5°	563.7	584.0	598.4	632.0	705.2	575.7	586.4	1641.8	1727.0	1644.2	765.1
85°	247.1	301.0	450.9	483.3	530.1	345.4	385.0	669.2	702.8	681.2	278.2
87.5°	64.8	70.8	223.1	280.6	293.8	155.9	200.3	304.6	321.4	304.6	92.3
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°	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1	3226.1
2.5°	3262.0	3203.3	3097.7	3004.2	2933.4	2885.5	2837.5	2813.5	2799.1	2784.7	2787.1
5°	3366.4	3247.6	3066.6	2938.2	2866.3	2820.7	2796.7	2787.1	2781.1	2766.7	2766.7
7.5°	3523.5	3355.6	3106.1	2974.2	2917.8	2883.1	2868.7	2863.9	2856.7	2839.9	2842.3
10°	3721.4	3486.3	3188.9	3060.6	3009.0	2970.6	2950.2	2943.0	2929.8	2910.7	2913.0
12.5°	3954.0	3648.2	3298.0	3163.7	3101.3	3049.8	3016.2	2995.8	2973.0	2947.8	2949.0
15°	4208.3	3824.5	3415.5	3256.0	3170.9	3098.9	3045.0	3010.2	2974.2	2943.0	2941.8
17.5°	4466.1	3994.8	3505.5	3306.4	3191.3	3096.5	3023.4	2969.4	2925.0	2886.7	2883.1
20°	4744.3	4148.3	3555.9	3301.6	3152.9	3040.2	2943.0	2875.9	2826.7	2788.3	2782.3
22.5°	5027.4	4292.2	3564.3	3252.4	3067.8	2929.8	2827.9	2753.5	2703.2	2663.6	2649.2
25°	5286.4	4403.8	3529.5	3157.7	2949.0	2800.3	2700.8	2625.2	2584.4	2537.7	2523.3
27.5°	5522.7	4481.7	3459.9	3036.6	2815.9	2669.6	2576.1	2511.3	2466.9	2430.9	2418.9
30°	5735.0	4523.7	3346.0	2892.7	2679.2	2546.1	2466.9	2422.5	2384.2	2338.6	2330.2
32.5°	5936.4	4523.7	3199.7	2735.6	2543.7	2436.9	2390.2	2362.6	2319.4	2275.0	2263.0
35°	6137.9	4496.1	3027.0	2571.3	2418.9	2359.0	2356.6	2324.2	2258.2	2198.3	2182.7
37.5°	6350.2	4439.7	2832.7	2417.7	2317.0	2324.2	2344.6	2272.6	2179.1	2093.9	2071.2
40°	6590.0	4361.8	2631.2	2284.6	2231.9	2308.6	2312.2	2198.3	2016.0	1938.0	1917.6
42.5°	6871.9	4283.8	2444.1	2167.1	2164.7	2261.8	2251.0	2037.6	1928.4	1888.9	1878.1
45°	7242.4	4239.5	2266.6	2055.6	2111.9	2186.3	2146.7	1948.8	1903.3	1880.5	1870.9
47.5°	7826.5	4262.2	2103.5	1966.8	2059.2	2110.7	1952.4	1912.9	1880.5	1852.9	1843.3
50°	8558.1	4249.0	1971.6	1905.7	1999.2	2031.6	1864.9	1866.1	1849.3	1818.1	1803.7
52.5°	9108.5	4145.9	1886.5	1870.9	1946.4	1891.3	1809.7	1820.5	1812.1	1766.5	1750.9
55°	9639.8	4057.2	1843.3	1857.7	1908.1	1716.2	1745.0	1771.3	1762.9	1718.6	1711.4
57.5°	10300.6	4040.4	1816.9	1861.3	1875.7	1628.6	1682.6	1717.4	1711.4	1692.2	1688.6
60°	11110.1	4045.2	1792.9	1867.3	1839.7	1563.9	1623.8	1668.2	1671.8	1668.2	1665.8
62.5°	11555.1	3914.4	1733.0	1850.5	1776.1	1507.5	1562.7	1627.4	1628.6	1635.8	1634.6
65°	11177.3	3523.5	1621.4	1791.7	1669.4	1460.7	1509.9	1580.6	1562.7	1595.0	1595.0
66°	10810.3	3298.0	1566.3	1753.3	1623.8	1442.7	1493.1	1556.7	1533.9	1578.3	1578.3
67.5°	10060.8	2917.8	1466.7	1671.8	1559.1	1417.5	1473.9	1517.1	1485.9	1551.9	1547.1
70°	8691.2	2257.0	1266.4	1487.1	1452.3	1380.4	1447.5	1437.9	1392.4	1493.1	1473.9
72.5°	7327.6	1715.0	1017.0	1244.9	1290.4	1333.6	1410.4	1337.2	1279.6	1350.4	1308.4
75°	5685.8	1289.2	803.5	967.8	1090.1	1260.4	1366.0	1220.9	1138.1	1130.9	1108.1
77.5°	3073.8	885.1	636.8	738.8	865.9	1169.3	1336.0	1096.1	971.4	942.6	924.6
80°	1217.3	575.7	462.9	560.1	605.6	1037.4	1264.0	951.0	801.1	772.3	744.8
82.5°	502.5	340.6	298.6	375.4	394.6	887.5	1134.5	779.5	618.8	856.3	909.1
85°	215.9	187.1	177.5	194.3	223.1	622.4	903.1	594.8	668.0	596.0	473.7
87.5°	64.8	79.2	75.6	74.4	81.6	148.7	480.9	331.0	490.5	185.9	139.1
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)