

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: P317560

Luminaire Tested: **GLEON-SA6B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317560
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-SA6B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26176 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

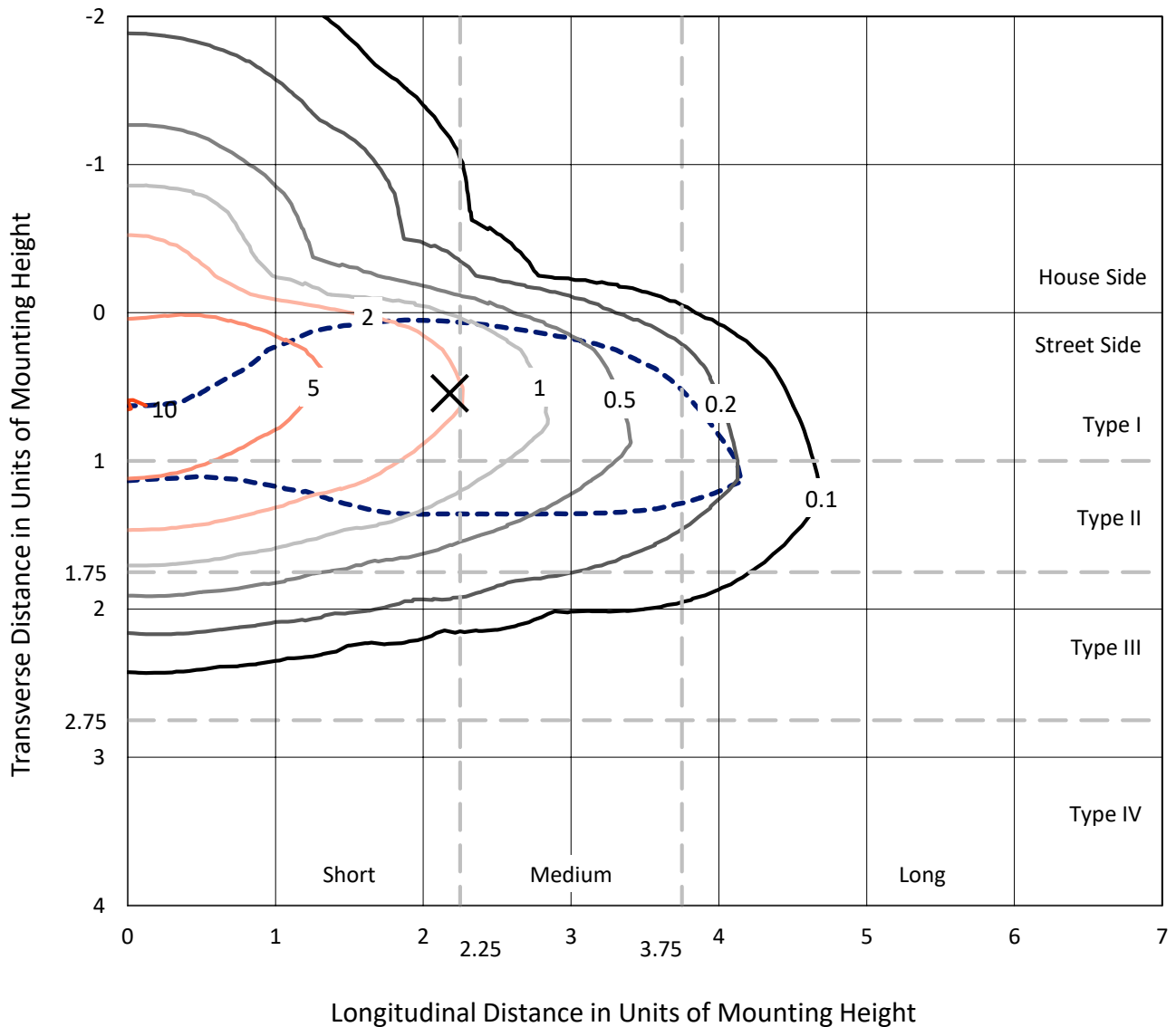
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

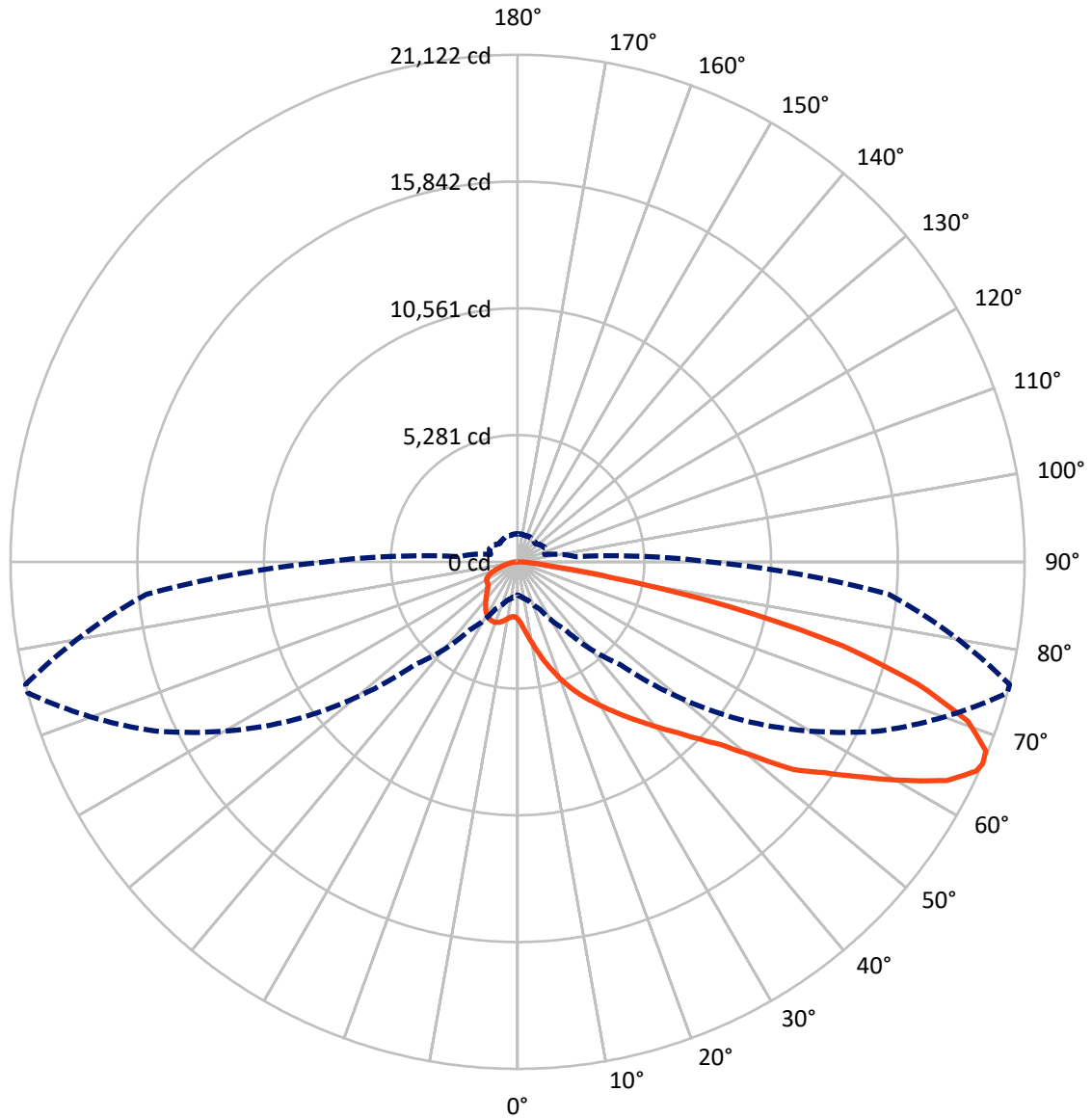
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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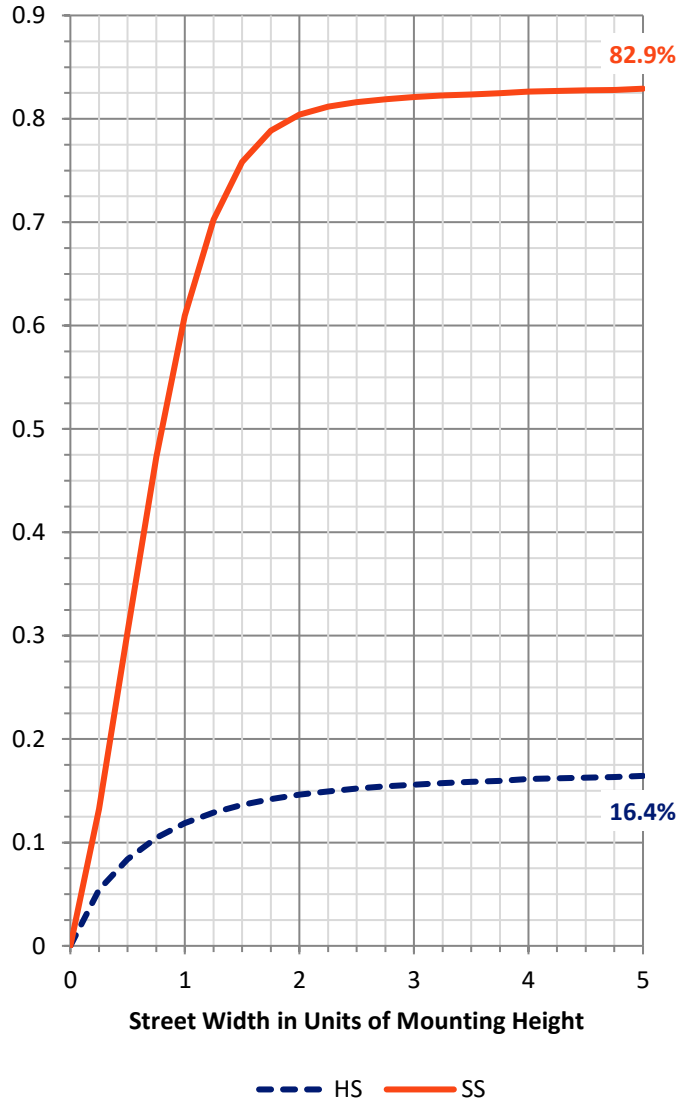
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4404.5	0.0	4404.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21771.5	0.0	21771.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	26176.0	0.0	26176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.1
10°-20°	1141.5	4.4
20°-30°	2218.3	8.5
30°-40°	3620.7	13.8
40°-50°	4946.7	18.9
50°-60°	5761.9	22.0
60°-70°	5165.7	19.7
70°-80°	2610.5	10.0
80°-90°	421.6	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°	26176.0	100.0
0°-180°	26176.0	100.0

Coefficient of Utilization



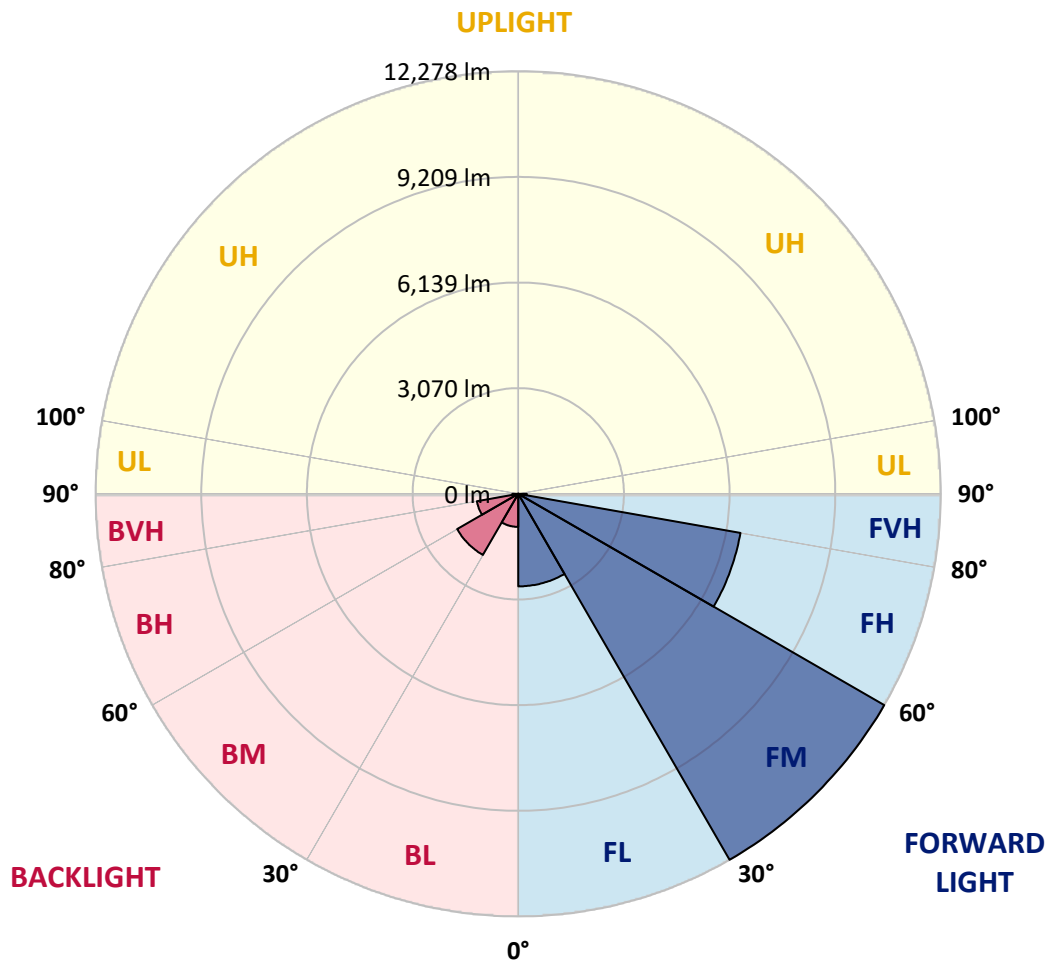
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.2	10.3			
FM (30°-60°)	12278.4	46.9			
FH (60°-80°)	6556.0	25.0			G3/7500
FVH (80°-90°)	249.0	1.0			G3/500
BL (0°-30°)	960.6	3.7	B2/1000		
BM (30°-60°)	2051.0	7.8	B2/2500		
BH (60°-80°)	1220.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	172.6	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°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	3173.4	3125.4	3120.9	3050.7	3034.7	2900.5	2801.9	2698.8	2581.5	2558.4	2466.0
5°	4076.2	4071.8	4010.5	3895.8	3806.1	3576.8	3350.2	3110.3	2847.2	2804.6	2596.6
7.5°	4888.4	4881.3	4834.2	4710.7	4581.0	4299.3	3975.8	3607.9	3181.4	3118.3	2773.5
10°	5505.2	5502.5	5486.5	5395.9	5285.7	5015.5	4658.3	4156.2	3569.7	3483.5	2994.7
12.5°	5981.5	5986.8	5997.5	5965.5	5913.1	5682.9	5316.8	4737.4	3983.8	3898.5	3240.9
15°	6304.1	6320.1	6375.2	6420.5	6448.0	6306.7	5952.2	5331.9	4447.7	4345.5	3513.7
17.5°	6466.7	6484.5	6579.5	6716.4	6842.6	6828.4	6546.7	5898.8	4892.9	4794.2	3807.0
20°	6607.1	6620.4	6727.1	6891.5	7114.5	7213.1	7055.0	6444.5	5380.8	5263.5	4118.0
22.5°	7014.1	7031.0	7063.0	7156.3	7353.6	7534.8	7458.4	6960.8	5827.7	5718.4	4413.0
25°	7799.7	7820.1	7750.8	7671.7	7709.0	7835.2	7849.4	7431.8	6281.0	6157.4	4730.3
27.5°	8746.1	8775.4	8657.2	8453.7	8276.0	8227.1	8210.2	7817.4	6713.7	6570.7	5044.0
30°	9672.9	9723.6	9569.8	9305.9	8979.8	8750.5	8580.8	8195.1	7140.3	7003.4	5339.9
32.5°	10578.4	10558.0	10335.0	10077.3	9695.1	9408.1	8997.5	8600.3	7620.1	7462.9	5634.0
35°	11198.7	11205.8	10998.8	10693.1	10328.7	10108.4	9555.6	9037.5	8109.8	7964.9	5968.2
37.5°	11726.6	11693.7	11459.1	11173.8	10860.1	10766.0	10208.8	9519.2	8640.3	8482.1	6323.6
40°	11902.5	11864.3	11710.6	11505.3	11253.8	11245.8	10929.5	10064.8	9240.1	9083.7	6724.4
42.5°	11795.9	11747.0	11683.9	11627.9	11550.6	11586.2	11606.6	10704.6	9899.5	9724.5	7188.3
45°	11402.2	11328.5	11372.9	11494.6	11662.6	11863.4	12218.0	11412.9	10638.0	10491.4	7733.0
47.5°	10797.1	10730.4	10869.0	11129.4	11586.2	12094.5	12796.5	12194.9	11519.5	11373.8	8508.8
50°	9945.7	9965.3	10163.5	10637.1	11327.6	12201.1	13509.2	13230.2	12801.0	12665.0	9567.2
52.5°	8548.8	8552.3	9110.4	9888.0	10869.0	12146.0	13904.7	14553.4	14550.7	14386.3	10574.9
55°	7251.4	7330.4	7772.1	8805.6	10126.1	11925.6	14181.0	15196.7	15699.7	15506.9	11514.2
57.5°	5984.1	6030.4	6448.9	7486.8	9066.0	11338.2	14464.5	15969.0	17023.8	16902.1	12681.9
60°	4542.8	4613.9	5046.6	6005.5	7709.9	10295.9	14491.2	16775.0	18606.5	18483.8	13985.5
62.5°	2948.5	3071.2	3476.4	4374.8	6069.5	8796.7	13872.7	17301.9	20106.5	20063.0	15142.5
65°	1694.6	1787.1	2068.8	2761.9	4187.3	6914.6	12402.0	17099.3	21029.8	21004.9	15575.3
66°	1384.5	1442.3	1658.2	2158.5	3455.1	6072.1	11547.1	16671.9	21121.4	21122.2	15525.5
67.5°	1107.3	1133.0	1229.9	1545.4	2549.5	4812.9	10019.5	15729.0	21007.6	21038.7	15204.7
70°	916.2	929.5	959.7	1036.2	1391.6	2902.3	7111.8	13279.0	19865.7	19889.7	13952.6
72.5°	822.0	830.0	841.5	852.2	982.0	1621.8	4343.7	10622.9	17417.5	17448.6	12044.7
75°	744.7	749.1	747.4	748.2	823.8	1033.5	2244.7	7931.2	14083.3	14021.1	9226.8
77.5°	654.0	658.5	649.6	651.4	728.7	794.5	1117.0	5552.3	9504.1	9065.1	5198.6
80°	552.7	556.3	552.7	559.0	634.5	599.8	649.6	3123.6	4202.4	3974.9	1848.4
82.5°	417.7	432.8	443.4	468.3	522.5	426.6	434.5	1216.6	1279.7	1218.3	567.0
85°	183.1	223.1	334.1	358.1	392.8	255.9	285.3	495.9	520.7	504.8	206.2
87.5°	48.0	52.4	165.3	207.9	217.7	115.5	148.4	225.7	238.2	225.7	68.4
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°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2417.1	2373.6	2295.4	2226.1	2173.6	2138.1	2102.5	2084.8	2074.1	2063.4	2065.2
5°	2494.4	2406.5	2272.3	2177.2	2123.9	2090.1	2072.3	2065.2	2060.8	2050.1	2050.1
7.5°	2610.8	2486.4	2301.6	2203.8	2162.1	2136.3	2125.6	2122.1	2116.8	2104.3	2106.1
10°	2757.5	2583.3	2362.9	2267.8	2229.6	2201.2	2186.1	2180.7	2171.0	2156.7	2158.5
12.5°	2929.9	2703.3	2443.8	2344.2	2298.0	2259.8	2234.9	2219.8	2203.0	2184.3	2185.2
15°	3118.3	2833.9	2530.9	2412.7	2349.6	2296.3	2256.3	2230.5	2203.8	2180.7	2179.8
17.5°	3309.3	2960.1	2597.5	2450.0	2364.7	2294.5	2240.3	2200.3	2167.4	2139.0	2136.3
20°	3515.5	3073.8	2634.8	2446.4	2336.3	2252.7	2180.7	2131.0	2094.5	2066.1	2061.7
22.5°	3725.2	3180.5	2641.1	2410.0	2273.2	2171.0	2095.4	2040.3	2003.0	1973.7	1963.0
25°	3917.2	3263.1	2615.3	2339.8	2185.2	2075.0	2001.2	1945.2	1915.0	1880.4	1869.7
27.5°	4092.2	3320.9	2563.7	2250.1	2086.5	1978.1	1908.8	1860.8	1827.9	1801.3	1792.4
30°	4249.5	3352.0	2479.3	2143.4	1985.2	1886.6	1827.9	1795.1	1766.6	1732.9	1726.6
32.5°	4398.8	3352.0	2370.9	2027.0	1884.8	1805.7	1771.1	1750.6	1718.6	1685.8	1676.9
35°	4548.1	3331.5	2242.9	1905.3	1792.4	1748.0	1746.2	1722.2	1673.3	1628.9	1617.3
37.5°	4705.4	3289.8	2099.0	1791.5	1716.9	1722.2	1737.3	1684.0	1614.7	1551.6	1534.7
40°	4883.1	3232.0	1949.7	1692.9	1653.8	1710.6	1713.3	1628.9	1493.8	1436.1	1420.9
42.5°	5091.9	3174.2	1811.1	1605.8	1604.0	1676.0	1668.0	1509.8	1428.9	1399.6	1391.6
45°	5366.5	3141.4	1679.5	1523.1	1564.9	1620.0	1590.7	1444.1	1410.3	1393.4	1386.3
47.5°	5799.3	3158.2	1558.7	1457.4	1525.8	1564.0	1446.7	1417.4	1393.4	1373.0	1365.8
50°	6341.4	3148.5	1460.9	1412.1	1481.4	1505.4	1381.8	1382.7	1370.3	1347.2	1336.5
52.5°	6749.3	3072.1	1397.8	1386.3	1442.3	1401.4	1341.0	1349.0	1342.7	1309.0	1297.4
55°	7142.9	3006.3	1365.8	1376.5	1413.8	1271.7	1293.0	1312.5	1306.3	1273.4	1268.1
57.5°	7632.6	2993.9	1346.3	1379.2	1389.8	1206.8	1246.8	1272.5	1268.1	1253.9	1251.2
60°	8232.4	2997.4	1328.5	1383.6	1363.2	1158.8	1203.2	1236.1	1238.8	1236.1	1234.3
62.5°	8562.1	2900.5	1284.1	1371.2	1316.1	1117.0	1157.9	1205.9	1206.8	1212.1	1211.2
65°	8282.2	2610.8	1201.5	1327.6	1237.0	1082.4	1118.8	1171.2	1157.9	1181.9	1181.9
66°	8010.3	2443.8	1160.6	1299.2	1203.2	1069.0	1106.4	1153.5	1136.6	1169.5	1169.5
67.5°	7454.9	2162.1	1086.8	1238.8	1155.2	1050.4	1092.1	1124.1	1101.0	1149.9	1146.4
70°	6440.0	1672.4	938.4	1101.9	1076.2	1022.8	1072.6	1065.5	1031.7	1106.4	1092.1
72.5°	5429.6	1270.8	753.6	922.4	956.2	988.2	1045.0	990.8	948.2	1000.6	969.5
75°	4213.1	955.3	595.4	717.1	807.8	934.0	1012.2	904.6	843.3	838.0	821.1
77.5°	2277.6	655.8	471.9	547.4	641.6	866.4	990.0	812.2	719.8	698.5	685.1
80°	902.0	426.6	343.0	415.0	448.8	768.7	936.6	704.7	593.6	572.3	551.8
82.5°	372.3	252.4	221.3	278.1	292.4	657.6	840.7	577.6	458.5	634.5	673.6
85°	160.0	138.6	131.5	144.0	165.3	461.2	669.2	440.8	495.0	441.7	351.0
87.5°	48.0	58.7	56.0	55.1	60.4	110.2	356.3	245.3	363.5	137.7	103.1
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)