

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: P383205

Luminaire Tested: **GLEON-SA5B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383205
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-SA5B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 27719.1 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

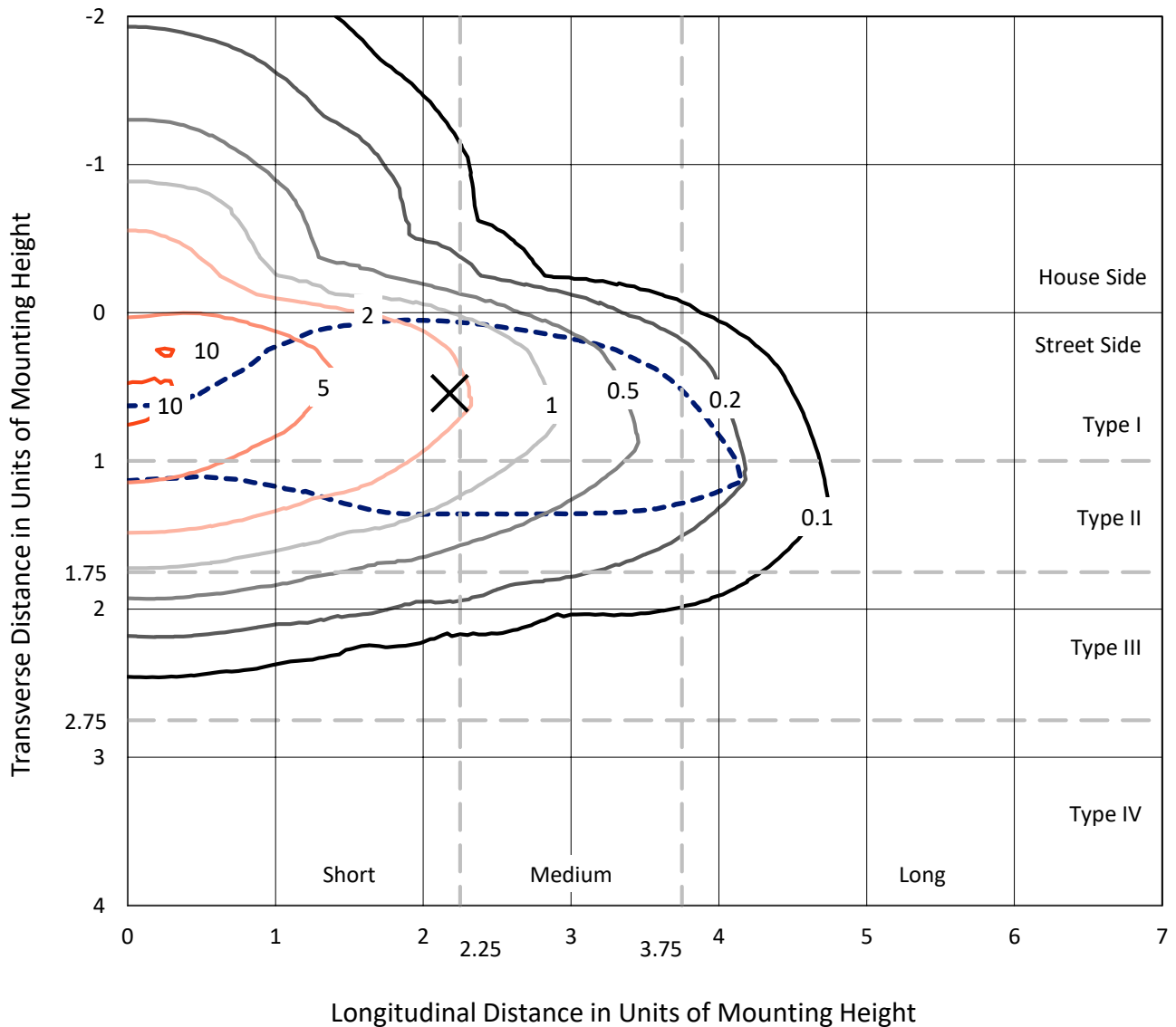
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

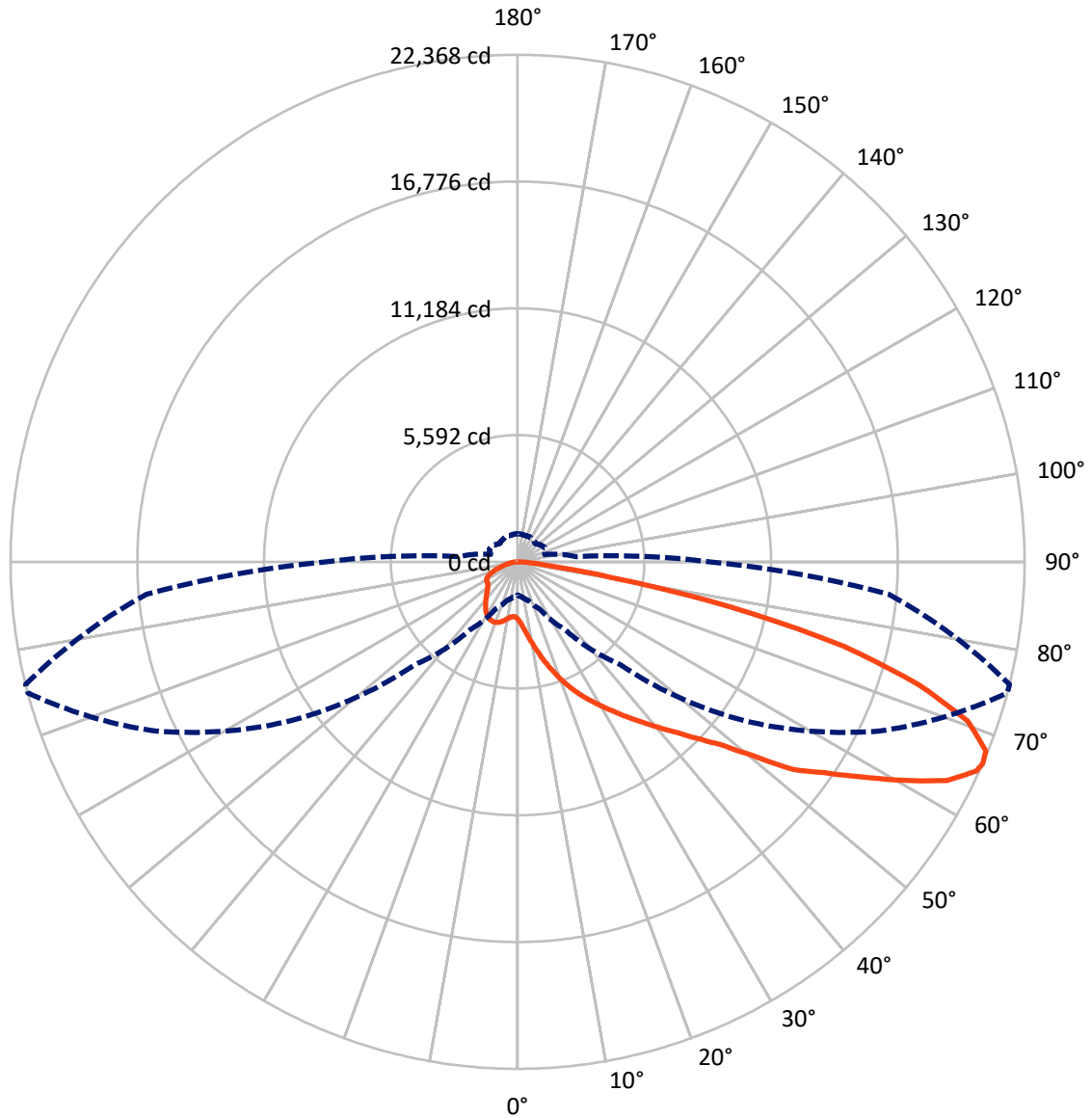
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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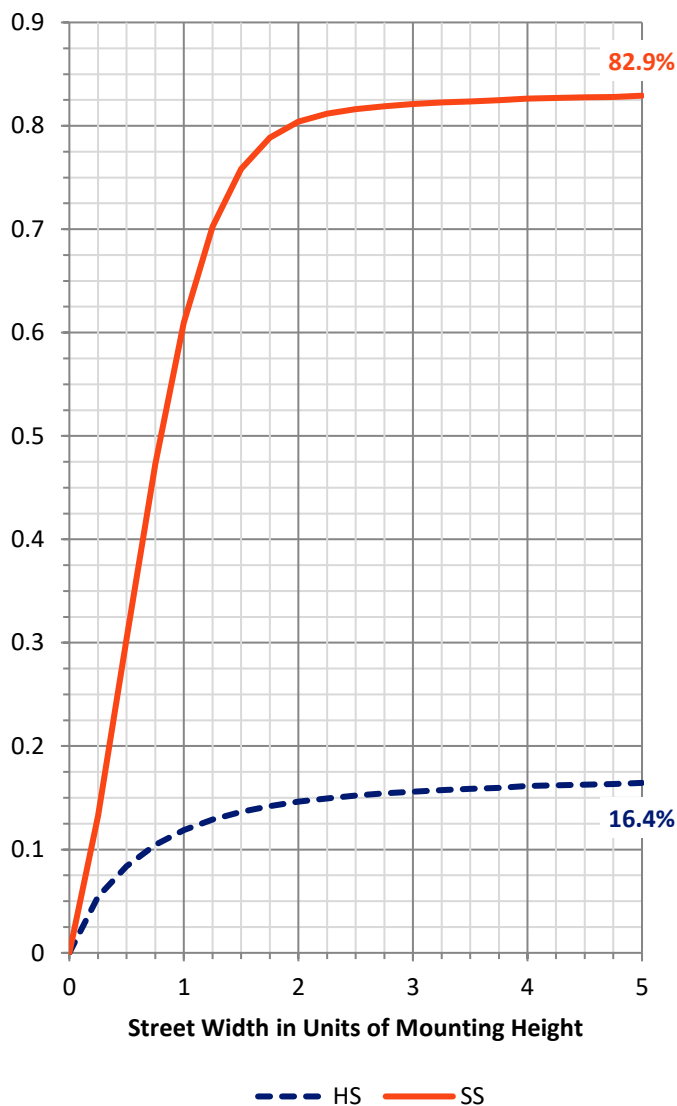
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4664.2	0.0	4664.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23055.0	0.0	23055.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	27719.1	0.0	27719.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	1.1
10°-20°	1208.8	4.4
20°-30°	2349.0	8.5
30°-40°	3834.1	13.8
40°-50°	5238.4	18.9
50°-60°	6101.6	22.0
60°-70°	5470.2	19.7
70°-80°	2764.4	10.0
80°-90°	446.4	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°	27719.1	100.0
0°-180°	27719.1	100.0

Coefficient of Utilization



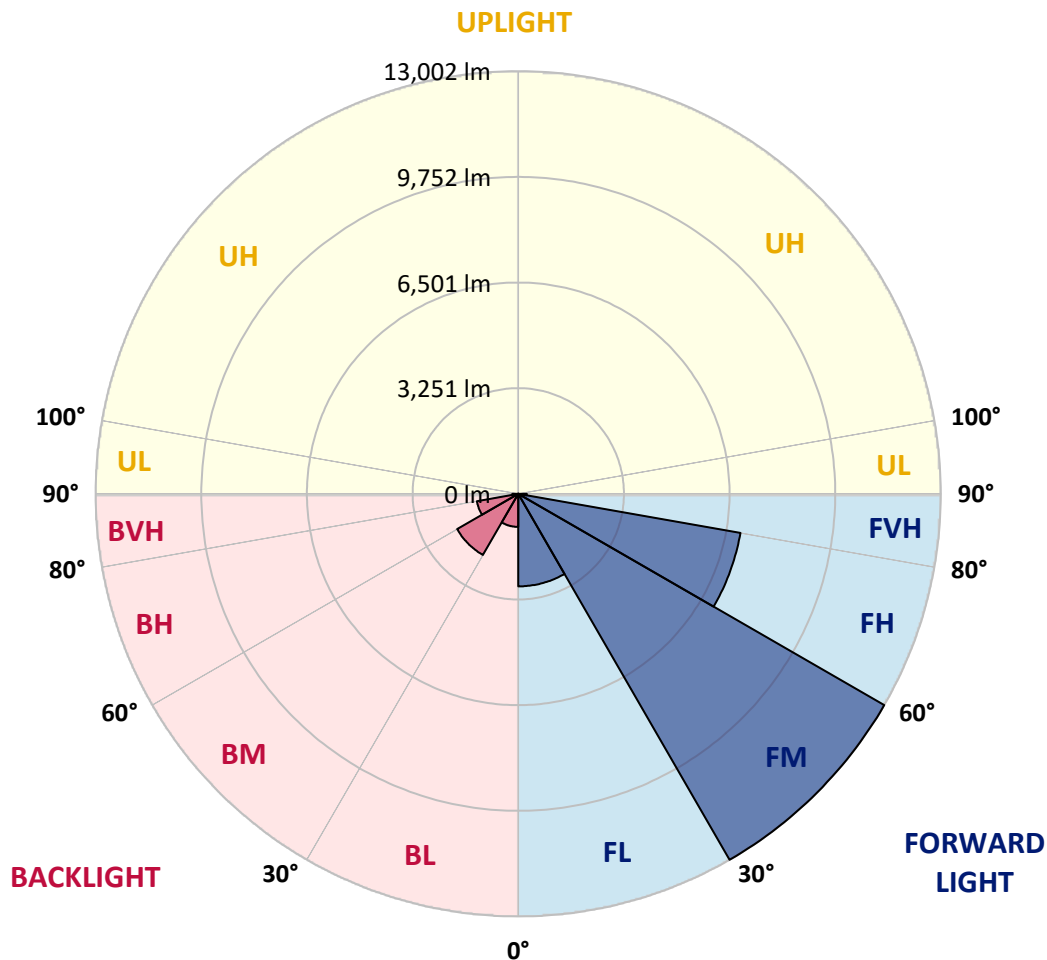
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.7	10.3			
FM (30°-60°)	13002.2	46.9			
FH (60°-80°)	6942.4	25.0			G3/7500
FVH (80°-90°)	263.6	1.0			G3/500
BL (0°-30°)	1017.3	3.7	B3/2500		
BM (30°-60°)	2171.9	7.8	B2/2500		
BH (60°-80°)	1292.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	182.8	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°	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4
2.5°	3360.5	3309.6	3304.9	3230.6	3213.7	3071.5	2967.1	2857.9	2733.7	2709.2	2611.4
5°	4316.5	4311.9	4246.9	4125.5	4030.4	3787.7	3547.7	3293.6	3015.0	2969.9	2749.7
7.5°	5176.6	5169.1	5119.2	4988.4	4851.0	4552.8	4210.2	3820.6	3368.9	3302.1	2937.0
10°	5829.7	5826.9	5810.0	5713.9	5597.3	5311.2	4932.9	4401.2	3780.1	3688.8	3171.3
12.5°	6334.1	6339.7	6351.0	6317.2	6261.7	6017.9	5630.2	5016.7	4218.7	4128.3	3431.9
15°	6675.7	6692.6	6751.0	6799.0	6828.2	6678.5	6303.0	5646.2	4709.9	4601.7	3720.9
17.5°	6847.9	6866.7	6967.4	7112.4	7245.9	7231.0	6932.6	6246.6	5181.4	5076.8	4031.4
20°	6996.6	7010.7	7123.6	7297.7	7533.9	7638.4	7470.8	6824.4	5698.0	5573.7	4360.8
22.5°	7427.6	7445.5	7479.3	7578.1	7787.1	7979.0	7898.1	7371.1	6171.3	6055.5	4673.2
25°	8259.5	8281.1	8207.7	8123.9	8163.4	8297.1	8312.2	7869.9	6651.2	6520.5	5009.1
27.5°	9261.6	9292.7	9167.5	8952.1	8763.8	8712.1	8694.2	8278.3	7109.5	6958.0	5341.3
30°	10243.1	10296.8	10134.0	9854.5	9509.1	9266.4	9086.6	8678.2	7561.2	7416.3	5654.7
32.5°	11202.0	11180.4	10944.2	10671.3	10266.7	9962.7	9528.0	9107.4	8069.3	7902.8	5966.2
35°	11858.9	11866.4	11647.1	11323.4	10937.7	10704.2	10118.9	9570.3	8587.8	8434.5	6320.0
37.5°	12417.9	12383.1	12134.6	11832.5	11500.4	11400.7	10810.6	10080.4	9149.7	8982.2	6696.4
40°	12604.2	12563.8	12400.9	12183.5	11917.3	11908.8	11573.7	10658.1	9784.9	9619.3	7120.8
42.5°	12491.3	12439.5	12372.7	12313.5	12231.6	12269.2	12290.8	11335.7	10483.1	10297.7	7612.0
45°	12074.4	11996.3	12043.3	12172.3	12350.1	12562.9	12938.3	12085.7	11265.1	11109.8	8188.9
47.5°	11433.5	11363.0	11509.8	11785.5	12269.2	12807.5	13550.9	12913.8	12198.6	12044.3	9010.4
50°	10532.1	10552.8	10762.6	11264.2	11995.4	12920.4	14305.6	14010.1	13555.6	13411.6	10131.1
52.5°	9052.8	9056.5	9647.5	10470.9	11509.8	12862.1	14724.3	15411.3	15408.4	15234.4	11198.3
55°	7678.8	7762.6	8230.3	9324.7	10723.0	12628.7	15017.0	16092.6	16625.2	16421.0	12192.9
57.5°	6336.9	6385.9	6829.1	7928.2	9600.4	12006.6	15317.3	16910.4	18027.4	17898.5	13429.5
60°	4810.6	4885.9	5344.1	6359.5	8164.5	10902.8	15345.5	17763.9	19703.3	19573.5	14810.0
62.5°	3122.4	3252.2	3681.3	4632.7	6427.3	9315.3	14690.5	18322.0	21291.8	21245.7	16035.2
65°	1794.5	1892.4	2190.7	2924.8	4434.2	7322.2	13133.1	18107.4	22269.6	22243.2	16493.5
66°	1466.2	1527.3	1756.0	2285.7	3658.7	6430.1	12227.8	17654.8	22366.5	22367.5	16440.8
67.5°	1172.5	1199.8	1302.4	1636.4	2699.8	5096.7	10610.1	16656.3	22246.0	22279.0	16101.1
70°	970.2	984.4	1016.3	1097.3	1473.6	3073.5	7531.1	14061.9	21036.9	21062.2	14775.2
72.5°	870.4	878.9	891.1	902.5	1039.9	1717.4	4599.8	11249.1	18444.3	18477.2	12754.7
75°	788.6	793.3	791.4	792.4	872.3	1094.4	2377.0	8398.7	14913.5	14847.7	9770.7
77.5°	692.6	697.3	687.9	689.8	771.7	841.3	1182.9	5879.6	10064.3	9599.5	5505.1
80°	585.3	589.1	585.3	591.9	671.9	635.2	687.9	3307.7	4450.2	4209.3	1957.4
82.5°	442.3	458.3	469.6	496.0	553.3	451.7	460.2	1288.2	1355.1	1290.2	600.4
85°	193.9	236.2	353.8	379.2	415.9	271.0	302.1	525.1	551.5	534.5	218.4
87.5°	50.8	55.5	175.0	220.2	230.6	122.3	157.2	239.0	252.2	239.0	72.5
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°	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4	2531.4
2.5°	2559.6	2513.5	2430.7	2357.3	2301.8	2264.1	2226.5	2207.7	2196.4	2185.0	2187.0
5°	2641.5	2548.3	2406.2	2305.5	2249.0	2213.4	2194.4	2187.0	2182.2	2171.0	2171.0
7.5°	2764.7	2633.0	2437.3	2333.8	2289.6	2262.3	2251.0	2247.2	2241.6	2228.4	2230.2
10°	2920.0	2735.6	2502.2	2401.5	2361.1	2330.9	2315.0	2309.3	2299.0	2283.9	2285.7
12.5°	3102.6	2862.6	2587.8	2482.5	2433.5	2393.1	2366.7	2350.7	2332.8	2313.0	2314.0
15°	3302.1	3001.0	2680.1	2554.9	2488.1	2431.6	2389.3	2362.0	2333.8	2309.3	2308.4
17.5°	3504.4	3134.6	2750.7	2594.5	2504.1	2429.8	2372.4	2330.0	2295.1	2265.1	2262.3
20°	3722.7	3255.0	2790.2	2590.6	2474.0	2385.5	2309.3	2256.6	2218.0	2187.9	2183.2
22.5°	3944.8	3367.9	2796.8	2552.1	2407.1	2299.0	2218.9	2160.6	2121.1	2090.0	2078.7
25°	4148.1	3455.5	2769.5	2477.7	2314.0	2197.3	2119.2	2059.9	2027.9	1991.2	1979.9
27.5°	4333.5	3516.7	2714.9	2382.7	2209.5	2094.8	2021.4	1970.5	1935.7	1907.4	1898.0
30°	4500.0	3549.6	2625.5	2269.8	2102.3	1997.8	1935.7	1900.9	1870.7	1835.1	1828.4
32.5°	4658.1	3549.6	2510.7	2146.5	1995.9	1912.2	1875.5	1853.9	1820.0	1785.1	1775.7
35°	4816.2	3528.0	2375.2	2017.5	1898.0	1851.0	1849.1	1823.7	1772.0	1724.9	1712.7
37.5°	4982.8	3483.7	2222.8	1897.1	1818.1	1823.7	1839.7	1783.3	1709.9	1643.1	1625.2
40°	5171.0	3422.5	2064.6	1792.7	1751.3	1811.5	1814.3	1724.9	1581.9	1520.8	1504.7
42.5°	5392.2	3361.4	1917.9	1700.4	1698.6	1774.8	1766.3	1598.8	1513.2	1482.1	1473.6
45°	5682.9	3326.6	1778.5	1613.0	1657.1	1715.5	1684.4	1529.1	1493.5	1475.6	1468.0
47.5°	6141.2	3344.4	1650.6	1543.3	1615.8	1656.2	1532.0	1500.9	1475.6	1453.9	1446.4
50°	6715.2	3334.1	1547.0	1495.3	1568.7	1594.2	1463.3	1464.2	1451.1	1426.6	1415.3
52.5°	7147.1	3253.2	1480.2	1468.0	1527.3	1484.0	1420.1	1428.5	1421.9	1386.1	1373.9
55°	7564.1	3183.6	1446.4	1457.7	1497.2	1346.6	1369.2	1389.9	1383.3	1348.5	1342.8
57.5°	8082.6	3170.3	1425.6	1460.5	1471.8	1277.9	1320.3	1347.6	1342.8	1327.8	1324.9
60°	8717.7	3174.1	1406.8	1465.2	1443.5	1227.1	1274.2	1309.0	1311.8	1309.0	1307.1
62.5°	9066.8	3071.5	1359.8	1452.0	1393.7	1182.9	1226.2	1277.0	1277.9	1283.6	1282.6
65°	8770.4	2764.7	1272.3	1405.9	1309.9	1146.2	1184.7	1240.3	1226.2	1251.5	1251.5
66°	8482.5	2587.8	1229.0	1375.8	1274.2	1132.1	1171.6	1221.4	1203.6	1238.4	1238.4
67.5°	7894.3	2289.6	1150.9	1311.8	1223.3	1112.3	1156.5	1190.4	1165.9	1217.7	1213.9
70°	6819.7	1771.1	993.8	1166.9	1139.6	1083.1	1135.8	1128.3	1092.5	1171.6	1156.5
72.5°	5749.7	1345.7	798.0	976.8	1012.6	1046.4	1106.7	1049.3	1004.1	1059.6	1026.7
75°	4461.5	1011.6	630.5	759.4	855.4	989.0	1071.8	958.0	893.1	887.4	869.5
77.5°	2411.9	694.5	499.7	579.7	679.5	917.5	1048.3	860.1	762.2	739.6	725.6
80°	955.1	451.7	363.2	439.5	475.2	814.0	991.8	746.3	628.6	606.1	584.4
82.5°	394.3	267.3	234.3	294.6	309.6	696.3	890.2	611.7	485.6	671.9	713.3
85°	169.4	146.8	139.3	152.4	175.0	488.4	708.6	466.8	524.2	467.7	371.7
87.5°	50.8	62.1	59.2	58.3	64.0	116.7	377.4	259.7	384.9	145.9	109.2
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)