

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: P383177

Luminaire Tested: **GLEON-SA5A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383177
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-SA5A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 22604.9 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

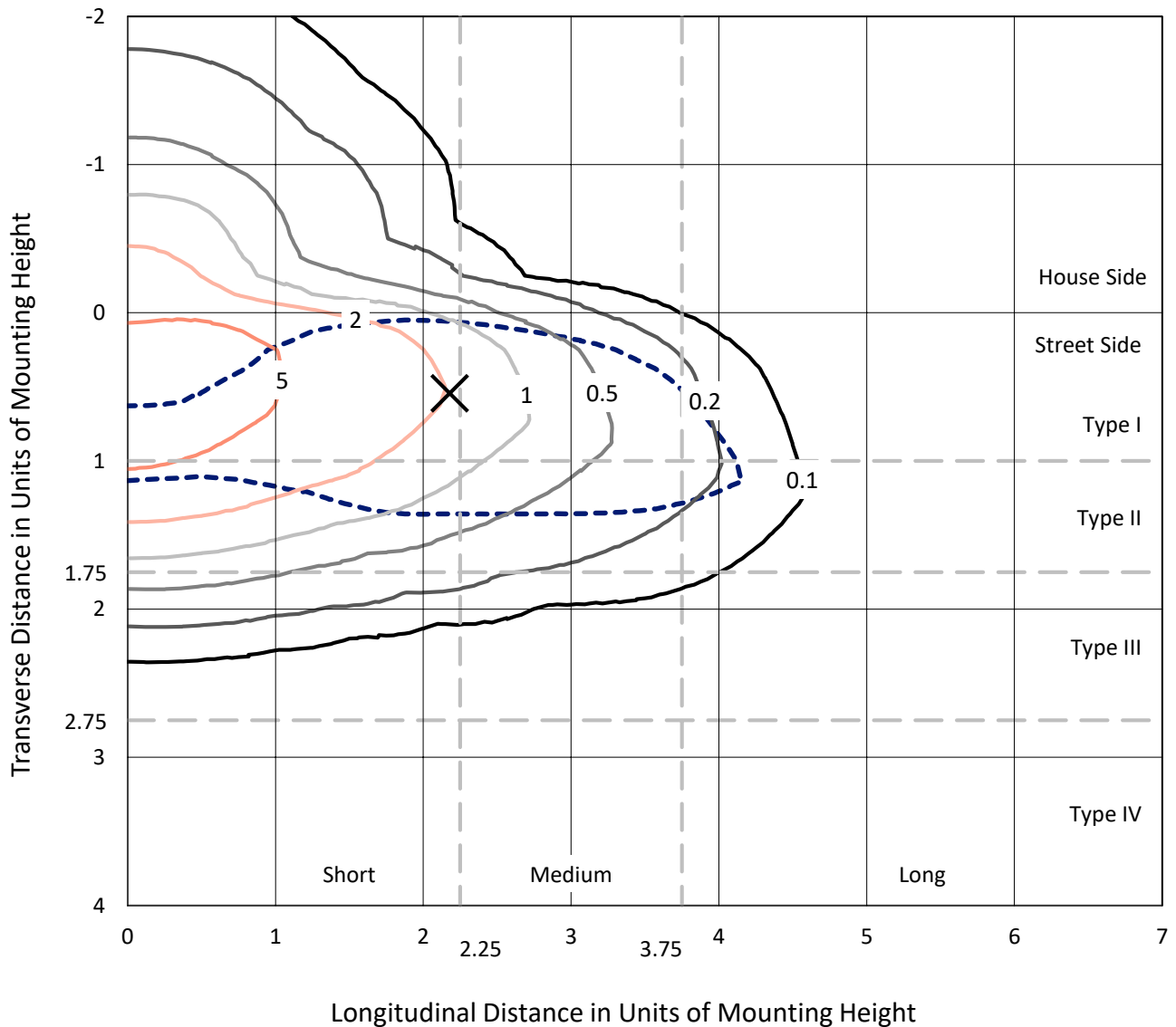
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

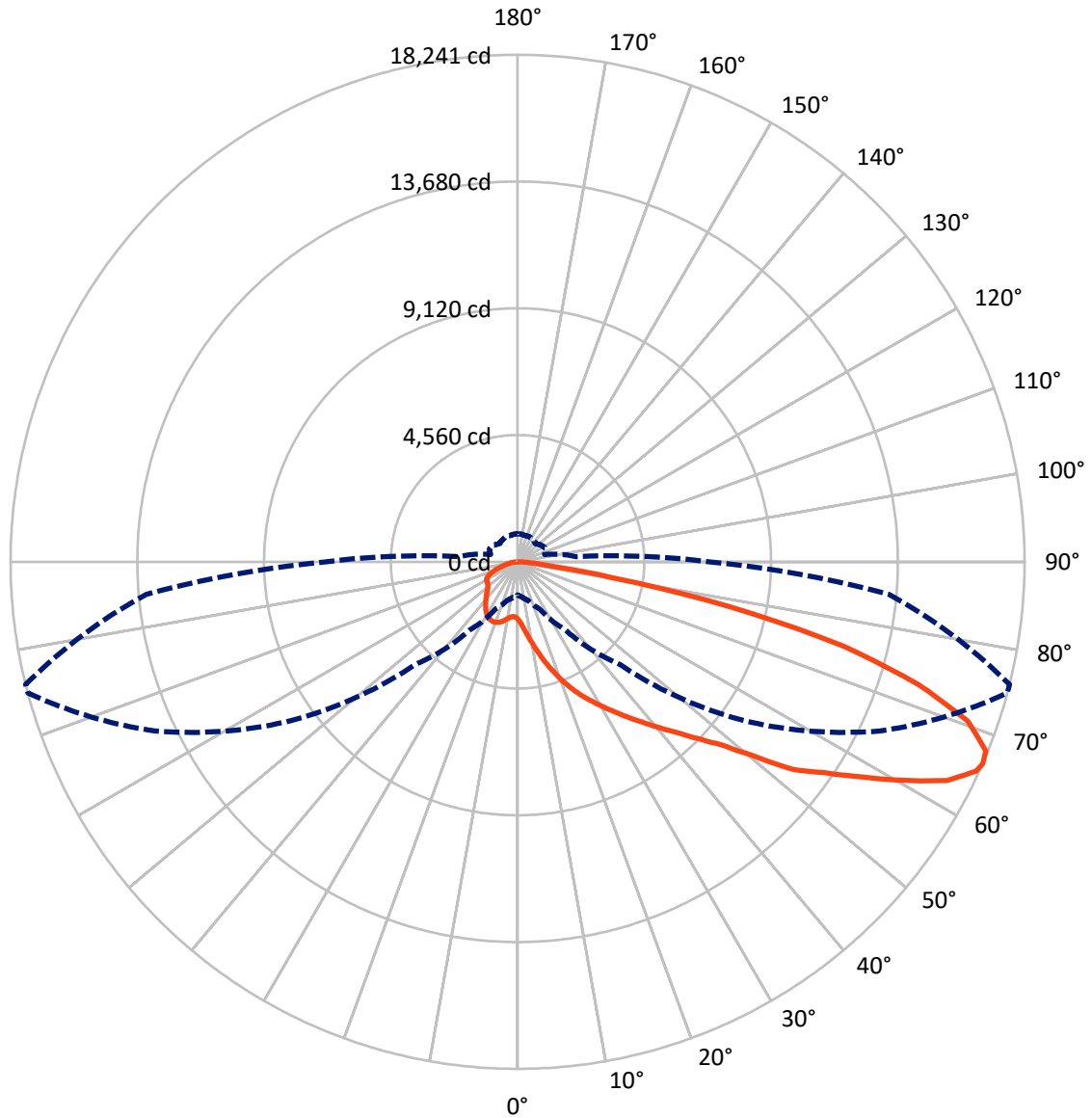
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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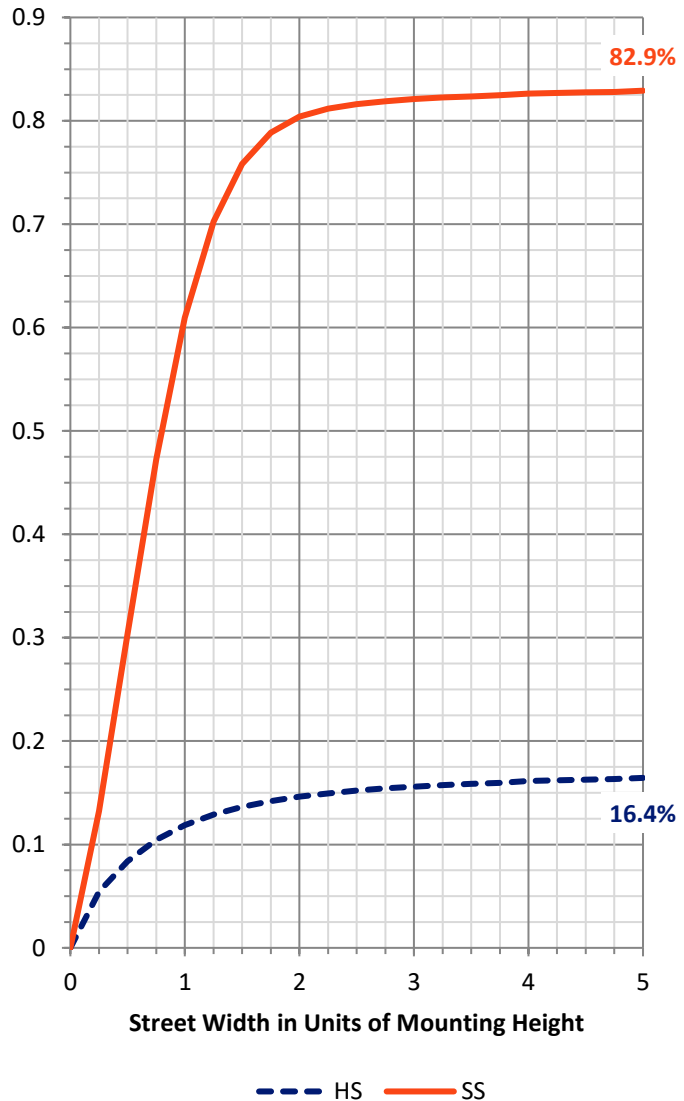
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3803.6	0.0	3803.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18801.3	0.0	18801.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	22604.9	0.0	22604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.1
10°-20°	985.8	4.4
20°-30°	1915.6	8.5
30°-40°	3126.7	13.8
40°-50°	4271.9	18.9
50°-60°	4975.9	22.0
60°-70°	4461.0	19.7
70°-80°	2254.4	10.0
80°-90°	364.1	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°	22604.9	100.0
0°-180°	22604.9	100.0

Coefficient of Utilization



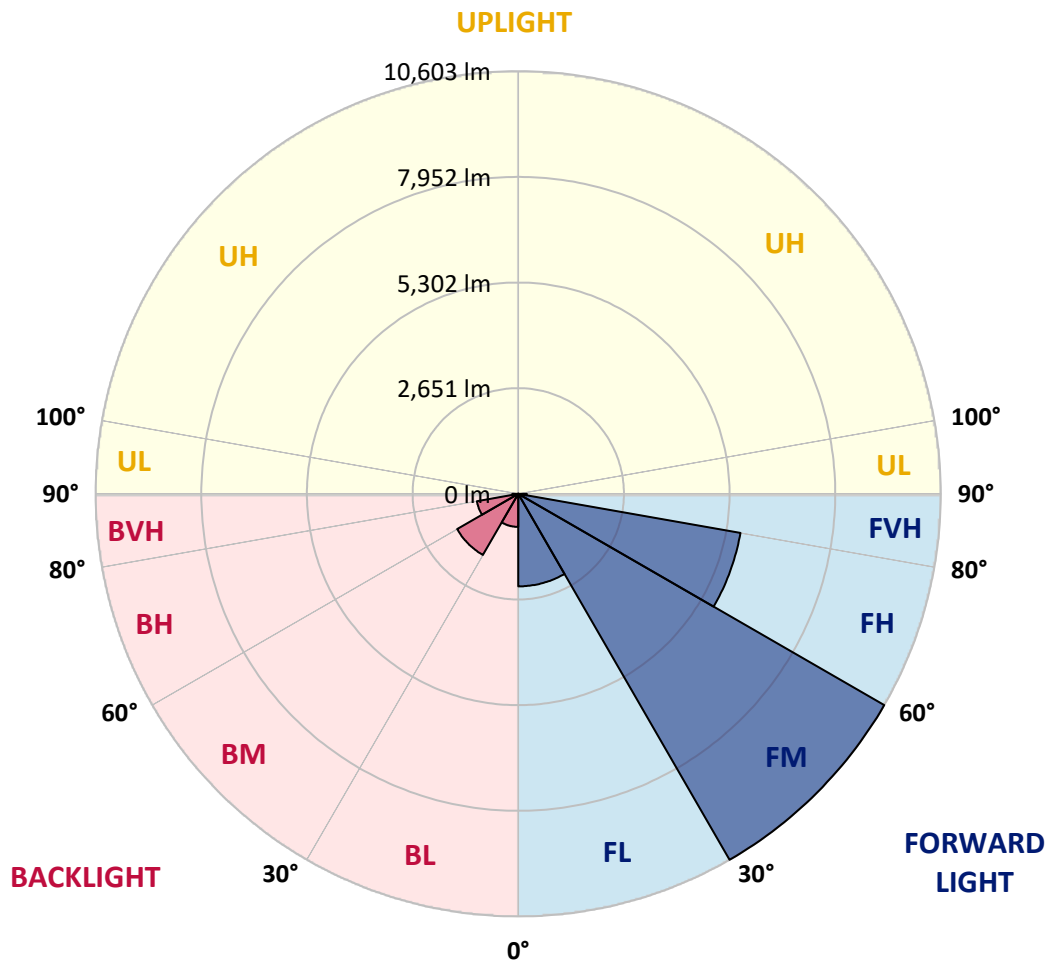
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2321.5	10.3			
FM (30°-60°)	10603.3	46.9			
FH (60°-80°)	5661.6	25.0			G3/7500
FVH (80°-90°)	215.0	1.0			G2/225
BL (0°-30°)	829.6	3.7	B2/1000		
BM (30°-60°)	1771.2	7.8	B2/2500		
BH (60°-80°)	1053.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	149.1	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°	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3
2.5°	2740.4	2699.0	2695.2	2634.5	2620.7	2504.8	2419.7	2330.6	2229.4	2209.4	2129.6
5°	3520.1	3516.3	3463.3	3364.4	3286.9	3088.8	2893.1	2685.9	2458.8	2421.9	2242.4
7.5°	4221.5	4215.4	4174.7	4068.1	3956.0	3712.8	3433.4	3115.7	2747.3	2692.8	2395.1
10°	4754.2	4751.8	4738.0	4659.7	4564.6	4331.3	4022.8	3589.2	3082.7	3008.2	2586.2
12.5°	5165.4	5170.1	5179.3	5151.6	5106.4	4907.6	4591.4	4091.1	3440.3	3366.6	2798.7
15°	5444.1	5457.8	5505.4	5544.6	5568.3	5446.3	5140.1	4604.5	3840.9	3752.6	3034.3
17.5°	5584.4	5599.8	5681.9	5800.1	5909.1	5896.8	5653.6	5094.1	4225.4	4140.2	3287.6
20°	5705.7	5717.2	5809.3	5951.3	6143.9	6229.1	6092.5	5565.3	4646.7	4545.4	3556.2
22.5°	6057.2	6071.7	6099.4	6180.0	6350.4	6506.9	6440.9	6011.2	5032.7	4938.3	3811.0
25°	6735.6	6753.3	6693.4	6625.1	6657.3	6766.3	6778.6	6417.9	5424.0	5317.4	4084.9
27.5°	7552.9	7578.2	7476.1	7300.4	7146.9	7104.7	7090.1	6750.9	5797.8	5674.2	4355.8
30°	8353.3	8397.1	8264.2	8036.4	7754.7	7556.7	7410.2	7077.1	6166.2	6048.0	4611.3
32.5°	9135.3	9117.6	8925.0	8702.4	8372.5	8124.6	7770.0	7427.0	6580.5	6444.7	4865.4
35°	9671.0	9677.1	9498.2	9234.2	8919.7	8729.3	8252.0	7804.6	7003.4	6878.4	5154.0
37.5°	10126.8	10098.3	9895.8	9649.4	9378.5	9297.2	8816.1	8220.5	7461.5	7324.9	5460.9
40°	10278.7	10245.7	10113.0	9935.7	9718.6	9711.6	9438.4	8691.7	7979.5	7844.5	5807.0
42.5°	10186.7	10144.5	10090.0	10041.6	9974.8	10005.6	10023.2	9244.2	8549.0	8397.8	6207.6
45°	9846.6	9783.0	9821.3	9926.5	10071.5	10245.0	10551.2	9855.9	9186.7	9060.0	6678.0
47.5°	9324.0	9266.5	9386.2	9611.1	10005.6	10444.5	11050.8	10531.2	9948.0	9822.1	7348.0
50°	8588.9	8605.7	8776.9	9185.9	9782.2	10536.5	11666.2	11425.2	11054.6	10937.2	8262.0
52.5°	7382.5	7385.6	7867.5	8539.0	9386.2	10489.0	12007.7	12567.9	12565.6	12423.7	9132.2
55°	6262.0	6330.4	6711.8	7604.3	8744.6	10298.7	12246.4	13123.5	13557.8	13391.4	9943.3
57.5°	5167.8	5207.6	5569.1	6465.4	7829.1	9791.4	12491.2	13790.4	14701.3	14596.2	10951.7
60°	3923.0	3984.4	4358.2	5186.2	6658.1	8891.2	12514.2	14486.5	16068.1	15962.2	12077.5
62.5°	2546.3	2652.2	3002.1	3778.0	5241.4	7596.6	11980.1	14941.6	17363.5	17325.9	13076.7
65°	1463.5	1543.3	1786.5	2385.1	3616.1	5971.2	10710.0	14766.5	18160.8	18139.4	13450.4
66°	1195.6	1245.5	1432.0	1864.0	2983.7	5243.8	9971.8	14397.4	18239.9	18240.6	13407.5
67.5°	956.2	978.5	1062.1	1334.5	2201.7	4156.3	8652.6	13583.2	18141.6	18168.5	13130.4
70°	791.2	802.7	828.8	894.8	1201.8	2506.3	6141.6	11467.4	17155.5	17176.2	12049.1
72.5°	709.8	716.7	726.7	735.9	848.0	1400.5	3751.2	9173.7	15041.3	15068.2	10401.5
75°	643.0	647.0	645.4	646.1	711.4	892.5	1938.5	6849.2	12161.9	12108.3	7968.1
77.5°	564.8	568.6	561.0	562.5	629.3	686.1	964.6	4794.8	8207.5	7828.4	4489.4
80°	477.3	480.4	477.3	482.7	547.9	518.0	561.0	2697.5	3629.1	3432.7	1596.2
82.5°	360.7	373.7	383.0	404.4	451.2	368.3	375.2	1050.6	1105.1	1052.1	489.6
85°	158.1	192.6	288.6	309.3	339.2	221.1	246.3	428.2	449.7	435.9	178.0
87.5°	41.5	45.3	142.7	179.6	188.0	99.8	128.2	194.9	205.7	194.9	59.1
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°	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3	2064.3
2.5°	2087.3	2049.8	1982.2	1922.3	1877.1	1846.4	1815.7	1800.3	1791.2	1782.0	1783.4
5°	2154.1	2078.2	1962.3	1880.1	1834.1	1805.0	1789.6	1783.4	1779.6	1770.4	1770.4
7.5°	2254.6	2147.2	1987.6	1903.2	1867.1	1844.8	1835.6	1832.5	1828.0	1817.3	1818.8
10°	2381.3	2230.9	2040.6	1958.4	1925.4	1900.9	1887.9	1883.2	1874.8	1862.5	1864.0
12.5°	2530.2	2334.5	2110.4	2024.4	1984.6	1951.5	1930.1	1917.0	1902.4	1886.3	1887.0
15°	2692.8	2447.3	2185.6	2083.5	2029.0	1983.0	1948.4	1926.2	1903.2	1883.2	1882.5
17.5°	2857.8	2556.3	2243.2	2115.7	2042.0	1981.5	1934.6	1900.1	1871.8	1847.2	1844.8
20°	3035.9	2654.4	2275.4	2112.7	2017.5	1945.4	1883.2	1840.3	1808.8	1784.2	1780.4
22.5°	3217.0	2746.6	2280.7	2081.3	1963.1	1874.8	1809.5	1762.0	1729.8	1704.5	1695.2
25°	3382.7	2817.9	2258.5	2020.6	1887.0	1791.9	1728.2	1679.9	1653.8	1623.9	1614.7
27.5°	3533.9	2867.9	2214.0	1943.1	1801.9	1708.3	1648.4	1606.9	1578.6	1555.6	1547.9
30°	3669.7	2894.7	2141.1	1851.0	1714.4	1629.2	1578.6	1550.2	1525.6	1496.4	1491.1
32.5°	3798.7	2894.7	2047.4	1750.5	1627.7	1559.4	1529.4	1511.8	1484.1	1455.8	1448.1
35°	3927.6	2877.0	1937.0	1645.3	1547.9	1509.5	1508.0	1487.2	1445.0	1406.6	1396.7
37.5°	4063.4	2840.9	1812.6	1547.1	1482.7	1487.2	1500.3	1454.2	1394.4	1339.9	1325.3
40°	4216.9	2791.1	1683.7	1461.9	1428.2	1477.2	1479.6	1406.6	1290.0	1240.2	1227.1
42.5°	4397.3	2741.2	1564.0	1386.7	1385.2	1447.3	1440.5	1303.8	1234.0	1208.7	1201.8
45°	4634.4	2712.8	1450.4	1315.3	1351.4	1399.0	1373.7	1247.1	1217.9	1203.3	1197.1
47.5°	5008.1	2727.4	1346.1	1258.5	1317.7	1350.7	1249.4	1224.1	1203.3	1185.7	1179.5
50°	5476.3	2718.9	1261.6	1219.4	1279.3	1300.0	1193.3	1194.1	1183.3	1163.4	1154.2
52.5°	5828.5	2653.0	1207.1	1197.1	1245.5	1210.2	1158.0	1164.9	1159.6	1130.4	1120.5
55°	6168.4	2596.1	1179.5	1188.7	1221.0	1098.2	1116.6	1133.5	1128.1	1099.7	1095.1
57.5°	6591.4	2585.4	1162.7	1191.0	1200.2	1042.1	1076.7	1098.9	1095.1	1082.8	1080.5
60°	7109.3	2588.5	1147.3	1194.9	1177.2	1000.7	1039.0	1067.5	1069.8	1067.5	1066.0
62.5°	7394.1	2504.8	1108.9	1184.1	1136.6	964.6	999.9	1041.4	1042.1	1046.8	1045.9
65°	7152.3	2254.6	1037.6	1146.5	1068.2	934.7	966.2	1011.5	999.9	1020.7	1020.7
66°	6917.5	2110.4	1002.3	1122.0	1039.0	923.2	955.4	996.1	981.5	1009.9	1009.9
67.5°	6437.8	1867.1	938.5	1069.8	997.6	907.0	943.2	970.8	950.8	993.0	990.0
70°	5561.4	1444.3	810.4	951.6	929.3	883.3	926.2	920.1	890.9	955.4	943.2
72.5°	4688.9	1097.4	650.8	796.6	825.7	853.4	902.5	855.6	818.8	864.1	837.3
75°	3638.3	825.0	514.1	619.3	697.5	806.5	874.1	781.2	728.3	723.6	709.1
77.5°	1966.9	566.4	407.5	472.8	554.1	748.2	854.9	701.5	621.6	603.2	591.7
80°	779.0	368.3	296.2	358.4	387.5	663.8	808.9	608.6	512.6	494.2	476.6
82.5°	321.6	218.0	191.1	240.2	252.4	567.9	726.0	498.8	396.0	547.9	581.7
85°	138.1	119.7	113.6	124.4	142.7	398.3	577.8	380.6	427.5	381.4	303.1
87.5°	41.5	50.7	48.3	47.6	52.2	95.2	307.7	211.8	313.8	119.0	89.1
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)