

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: P318197

Luminaire Tested: **GLEON-SA3B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12586 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

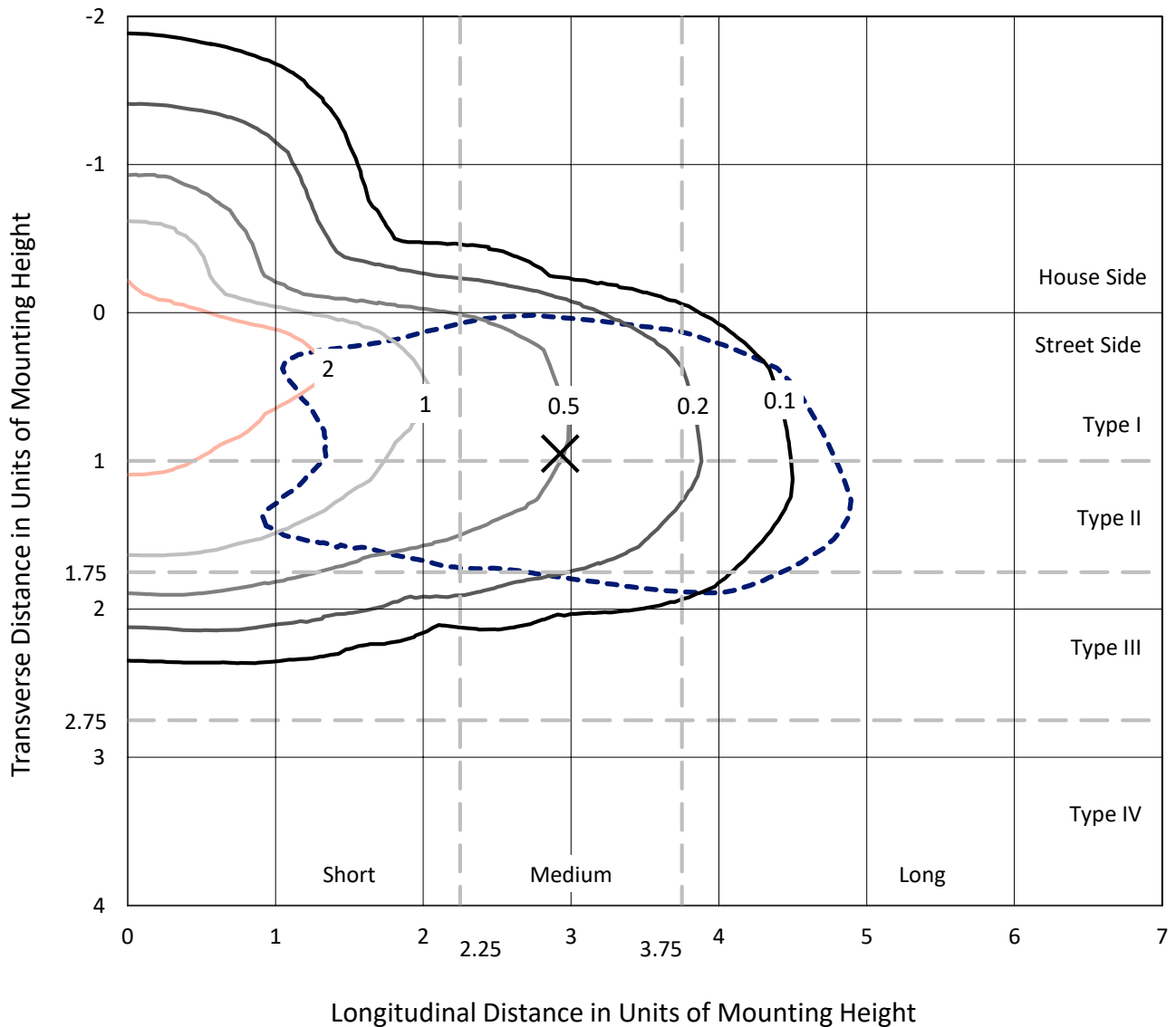
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

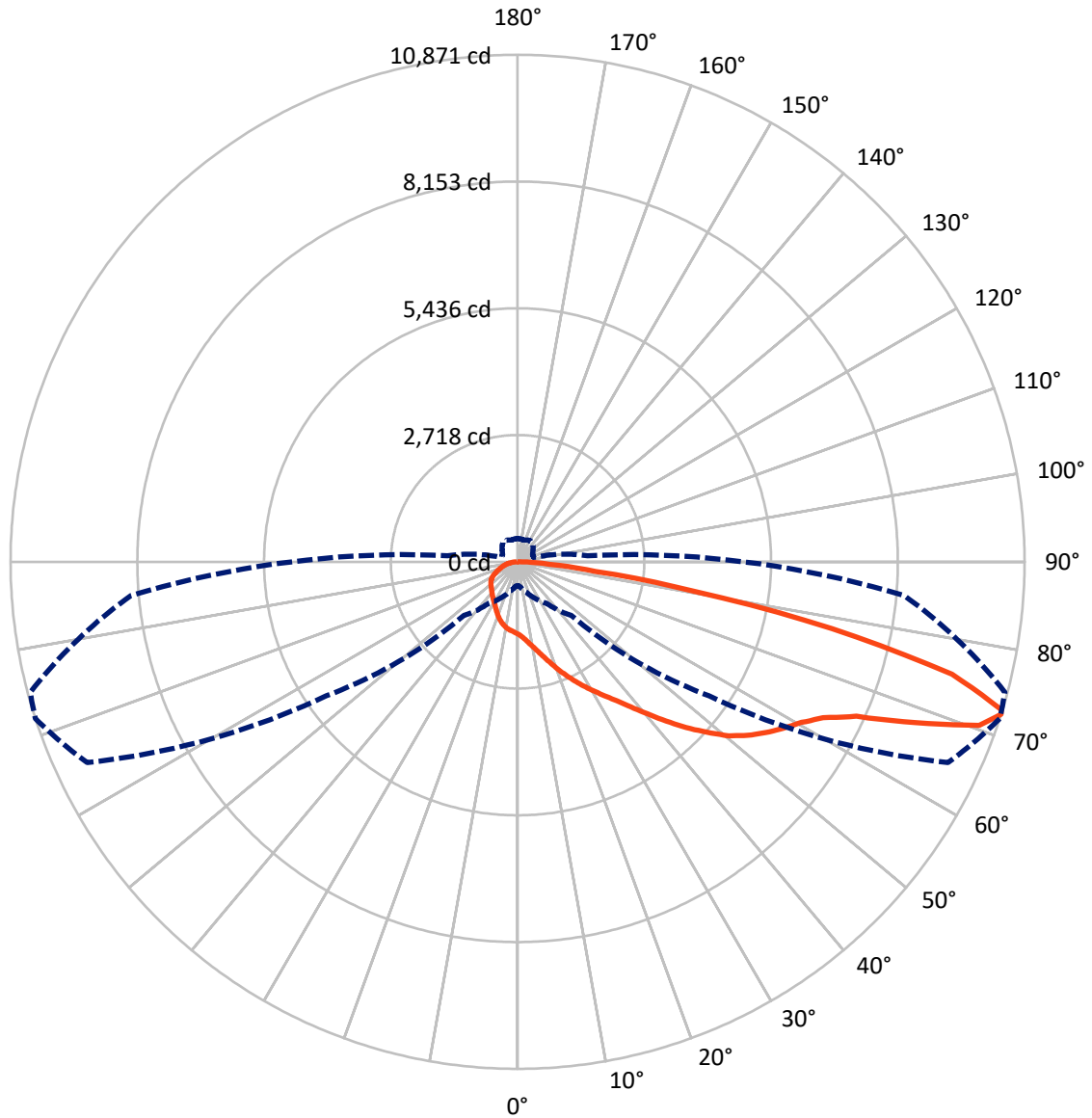
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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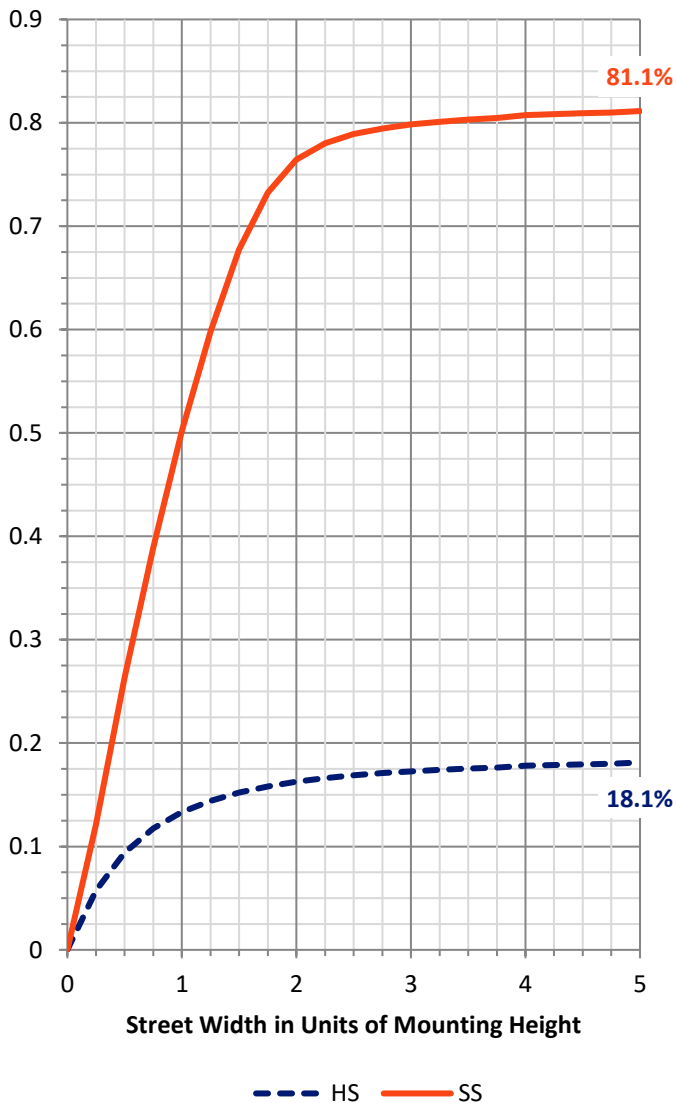
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2334.8	0.0	2334.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10251.2	0.0	10251.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	12586.0	0.0	12586.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.2
10°-20°	501.4	4.0
20°-30°	878.6	7.0
30°-40°	1302.7	10.4
40°-50°	1905.3	15.1
50°-60°	2621.6	20.8
60°-70°	2918.6	23.2
70°-80°	1977.7	15.7
80°-90°	325.0	2.6
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°	12586.0	100.0
0°-180°	12586.0	100.0



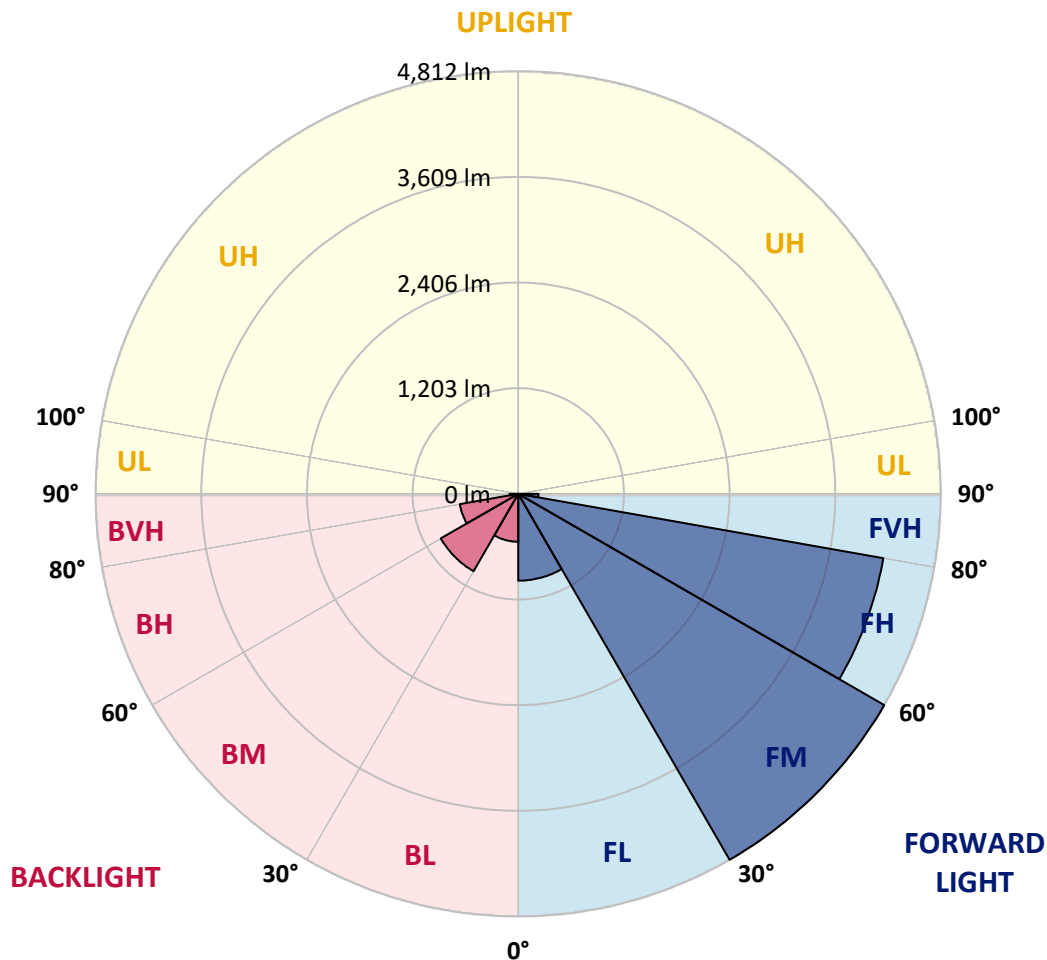
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.3	7.9			
FM (30°-60°)	4811.8	38.2			
FH (60°-80°)	4220.8	33.5			G2/5000
FVH (80°-90°)	229.3	1.8			G3/500
BL (0°-30°)	545.8	4.3	B2/1000		
BM (30°-60°)	1017.8	8.1	B2/2500		
BH (60°-80°)	675.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	95.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4
2.5°	1710.5	1707.9	1698.8	1698.8	1681.4	1666.7	1639.0	1620.3	1598.2	1590.4	1564.4
5°	1876.0	1876.9	1865.6	1857.8	1832.3	1801.1	1753.8	1710.9	1668.0	1650.7	1597.4
7.5°	2015.1	2013.4	2010.4	2003.9	1980.0	1948.0	1884.3	1820.6	1757.3	1731.3	1639.4
10°	2104.4	2108.3	2110.9	2113.9	2104.0	2081.0	2020.8	1943.2	1860.4	1824.9	1689.7
12.5°	2149.5	2156.4	2168.5	2189.4	2205.8	2203.2	2159.4	2077.1	1978.7	1934.1	1752.5
15°	2175.9	2185.0	2204.1	2241.4	2287.7	2314.2	2302.5	2227.9	2118.3	2063.2	1829.2
17.5°	2192.4	2199.8	2229.2	2279.1	2348.0	2418.2	2448.9	2386.5	2276.0	2213.2	1917.2
20°	2203.7	2209.3	2246.1	2304.6	2393.9	2505.7	2591.5	2575.9	2449.8	2368.3	2009.1
22.5°	2228.8	2233.6	2268.7	2327.6	2426.4	2570.7	2728.9	2752.3	2633.1	2540.8	2107.4
25°	2299.0	2299.0	2328.5	2369.6	2462.4	2627.0	2845.0	2948.6	2820.3	2712.9	2198.5
27.5°	2432.9	2431.6	2442.4	2456.7	2526.9	2684.3	2948.6	3121.9	3014.5	2897.0	2286.9
30°	2591.5	2600.2	2601.5	2594.5	2627.5	2755.8	3044.4	3304.8	3209.9	3083.4	2377.4
32.5°	2795.6	2801.3	2794.8	2771.8	2767.0	2857.2	3138.4	3496.4	3421.4	3278.0	2460.2
35°	3054.8	3043.9	3023.6	2976.8	2932.1	2992.8	3245.9	3687.9	3658.9	3513.3	2574.2
37.5°	3332.6	3333.0	3307.9	3201.7	3140.1	3166.2	3394.1	3905.0	3946.2	3793.2	2720.2
40°	3555.3	3567.0	3582.6	3443.1	3363.3	3399.3	3582.6	4156.8	4286.0	4125.2	2910.5
42.5°	3710.9	3724.3	3768.5	3681.0	3598.2	3665.0	3804.5	4425.5	4667.3	4508.3	3133.2
45°	3875.6	3882.9	3914.1	3876.4	3823.6	3973.9	4054.5	4703.7	5070.8	4916.5	3382.4
47.5°	4048.9	4056.7	4088.8	4063.6	4035.9	4262.6	4315.4	4965.9	5457.3	5365.0	3648.5
50°	4263.0	4268.2	4298.5	4253.0	4261.7	4480.1	4548.6	5206.4	5862.5	5768.1	3915.4
52.5°	4555.1	4556.4	4598.4	4557.2	4516.5	4639.6	4749.2	5433.1	6180.2	6135.6	4182.4
55°	4783.9	4797.8	4935.6	4926.9	4903.5	4784.3	4916.9	5648.9	6463.6	6484.8	4465.8
57.5°	4637.9	4692.0	4971.1	5167.9	5359.4	5144.5	5143.6	5892.0	6727.1	6827.6	4777.4
60°	4061.9	4135.6	4546.8	4983.2	5582.6	5771.1	5614.2	6188.9	6993.2	7167.4	5167.9
62.5°	2900.9	3022.3	3579.6	4276.4	5276.6	6186.3	6572.0	6659.9	7355.0	7560.9	5675.3
65°	1466.5	1558.4	2025.5	2865.0	4215.8	5915.0	7612.9	7691.3	7983.8	8166.7	6456.7
67.5°	891.0	925.7	1153.6	1593.5	2584.6	4607.5	7952.6	9410.5	9200.7	9297.8	7570.9
70°	656.5	682.1	824.3	1058.3	1486.4	2703.8	6910.0	10637.3	10499.5	10488.7	8394.2
72°	511.4	530.0	655.7	855.0	1086.9	1622.1	5008.4	10184.5	10871.3	10816.7	8318.8
72.5°	484.9	501.4	615.8	804.8	1027.1	1470.4	4503.1	9878.9	10844.5	10819.8	8221.3
75°	381.8	393.5	455.9	622.3	803.9	834.2	2467.6	7655.8	9620.2	10020.2	7394.5
77.5°	315.9	317.7	350.6	452.9	626.6	589.8	1212.1	5311.7	6888.7	7328.6	5238.1
80°	257.4	259.6	275.2	317.7	474.1	436.4	575.5	3054.3	3856.9	3861.7	2491.0
82.5°	205.0	205.4	222.7	232.3	340.6	312.0	329.8	1434.0	1685.3	1621.2	895.3
85°	144.3	141.3	217.5	190.7	222.7	200.2	182.0	567.7	696.8	666.5	280.4
87.5°	48.1	49.8	96.6	123.5	130.0	113.5	81.0	217.5	263.1	260.9	88.8
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°	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4
2.5°	1556.2	1542.3	1522.0	1499.4	1481.7	1463.5	1450.0	1443.1	1435.3	1428.8	1436.6
5°	1572.7	1546.7	1503.3	1460.9	1429.7	1401.9	1382.0	1371.6	1362.1	1355.6	1356.4
7.5°	1599.5	1557.5	1484.7	1422.7	1379.4	1349.5	1329.1	1322.2	1316.1	1314.4	1316.6
10°	1628.1	1566.2	1460.0	1377.7	1328.3	1303.6	1294.5	1299.2	1303.6	1307.5	1311.8
12.5°	1660.6	1574.0	1424.0	1324.8	1282.8	1273.2	1282.3	1303.1	1318.3	1327.4	1333.0
15°	1703.1	1580.9	1382.4	1271.9	1243.8	1254.6	1285.4	1321.3	1347.8	1364.7	1367.3
17.5°	1742.1	1580.5	1329.1	1218.6	1212.1	1243.8	1290.1	1340.8	1376.4	1400.2	1405.0
20°	1782.4	1568.8	1267.2	1166.6	1180.0	1232.1	1292.3	1353.4	1396.3	1424.0	1430.5
22.5°	1820.1	1548.4	1199.1	1119.4	1153.2	1216.5	1284.1	1346.0	1388.9	1411.5	1418.4
25°	1845.7	1512.9	1130.2	1079.5	1129.3	1197.4	1257.2	1307.0	1339.1	1350.4	1352.1
27.5°	1858.7	1466.5	1065.2	1044.8	1104.6	1166.2	1207.3	1232.1	1241.2	1240.3	1238.6
30°	1860.4	1405.4	1009.3	1016.7	1076.0	1120.2	1139.7	1135.0	1123.3	1103.3	1105.1
32.5°	1854.8	1336.5	962.5	989.8	1039.6	1064.3	1065.2	1042.2	1011.0	979.4	970.7
35°	1856.5	1268.9	921.3	959.5	995.4	1006.3	996.3	962.5	920.0	879.3	870.6
37.5°	1875.6	1209.9	885.8	924.4	946.5	949.1	934.8	899.2	868.0	828.2	824.7
40°	1921.1	1167.9	852.0	884.9	897.5	898.8	878.4	853.3	855.9	834.7	834.2
42.5°	2003.0	1149.7	822.1	843.8	851.6	854.2	838.6	822.5	845.1	831.2	826.4
45°	2108.7	1154.0	797.0	803.5	817.8	829.9	820.4	800.9	809.5	749.3	729.4
47.5°	2231.0	1181.8	777.0	768.8	793.5	816.5	801.7	772.3	741.5	681.7	670.4
50°	2374.0	1224.7	758.8	734.6	767.1	798.3	783.5	741.5	695.1	666.1	662.2
52.5°	2523.0	1277.1	740.6	696.8	733.7	784.4	777.0	734.6	677.3	648.7	643.5
55°	2692.1	1330.0	717.6	653.1	697.7	777.9	774.0	709.4	663.9	647.9	644.0
57.5°	2902.2	1390.2	687.3	607.6	663.9	754.5	742.4	694.2	650.0	637.9	636.6
60°	3176.1	1479.1	643.5	559.0	622.7	718.5	715.9	672.1	627.9	619.3	617.5
62.5°	3586.9	1626.0	583.3	510.5	576.8	657.4	681.2	642.2	604.5	604.1	605.0
65°	4224.0	1847.0	517.9	468.0	530.4	605.8	640.9	611.5	580.7	589.4	590.7
67.5°	4962.4	2030.3	453.7	426.4	483.2	556.9	604.5	580.7	549.1	571.6	572.0
70°	5208.2	1866.5	397.4	385.3	434.2	509.6	565.1	546.9	514.8	537.4	535.2
72°	4846.7	1506.8	361.0	354.1	397.4	470.6	530.0	515.3	483.6	498.8	493.2
72.5°	4732.8	1436.6	351.9	346.3	387.4	460.7	520.9	507.5	475.8	488.8	483.6
75°	4221.8	1247.7	302.5	303.8	338.0	412.1	469.8	465.4	432.9	434.2	432.5
77.5°	3062.1	914.8	254.8	263.5	287.8	362.3	418.2	415.6	380.1	373.6	372.3
80°	1421.0	466.7	207.6	211.5	236.6	302.9	356.7	353.2	324.6	316.4	311.6
82.5°	486.7	221.9	156.0	158.6	183.3	244.0	309.4	307.3	283.4	267.4	257.4
85°	173.8	110.5	109.2	106.6	130.9	192.0	269.6	257.9	222.7	189.8	188.9
87.5°	56.3	47.2	56.3	55.9	76.3	130.0	195.9	166.8	161.6	134.3	131.7
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)