

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: P317550

Luminaire Tested: **GLEON-SA6A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317550
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-SA6A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21346 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

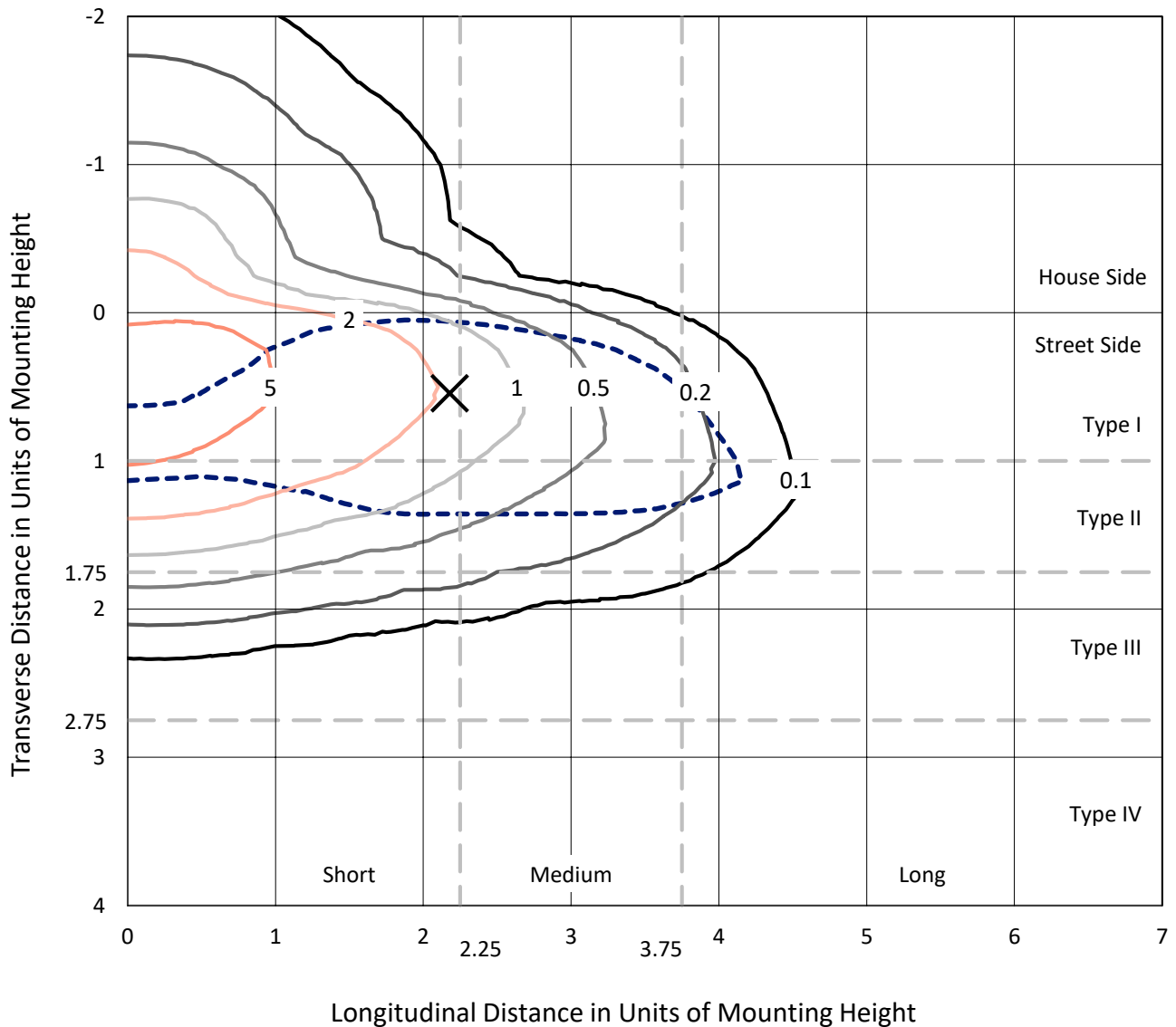
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

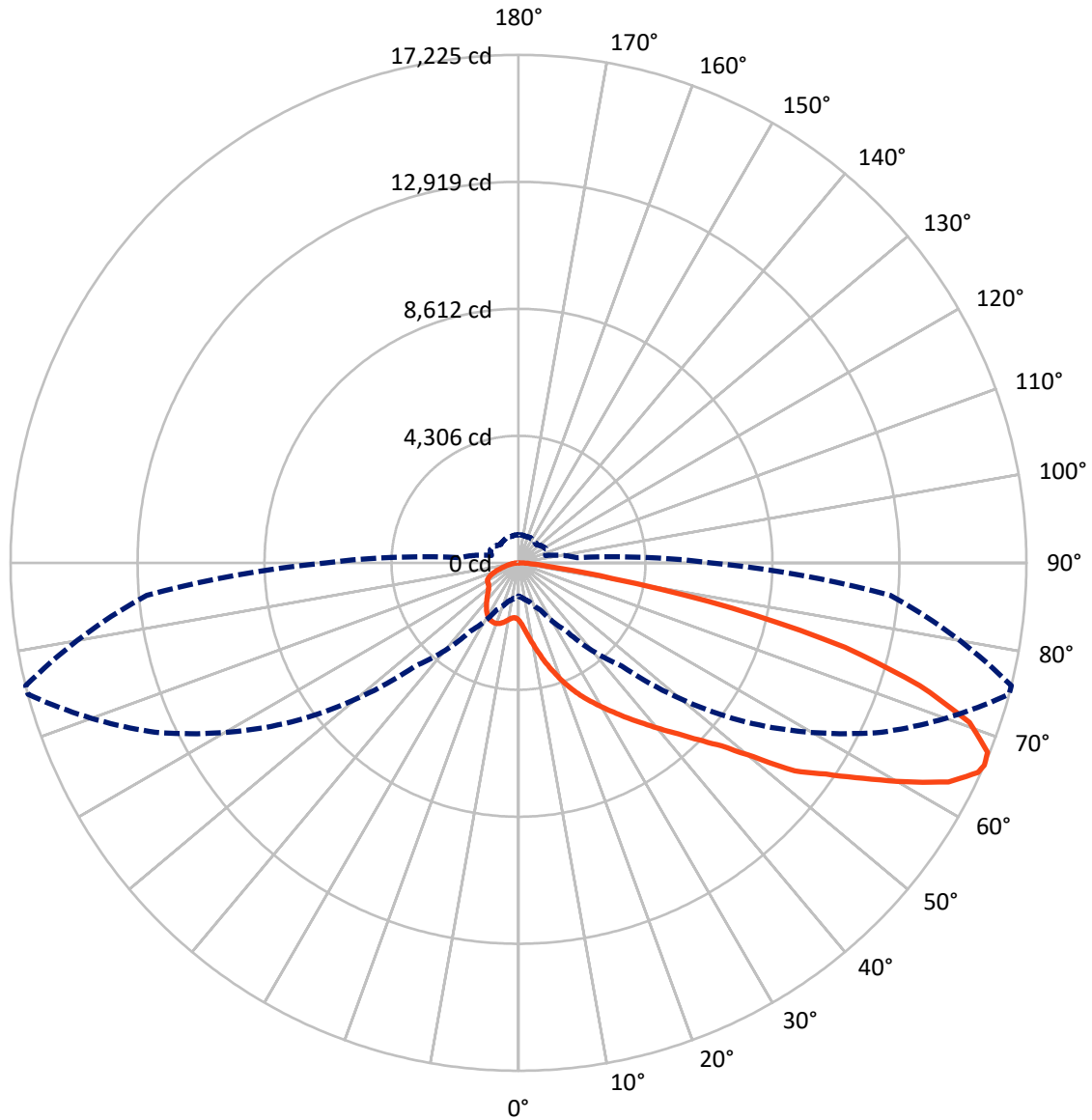
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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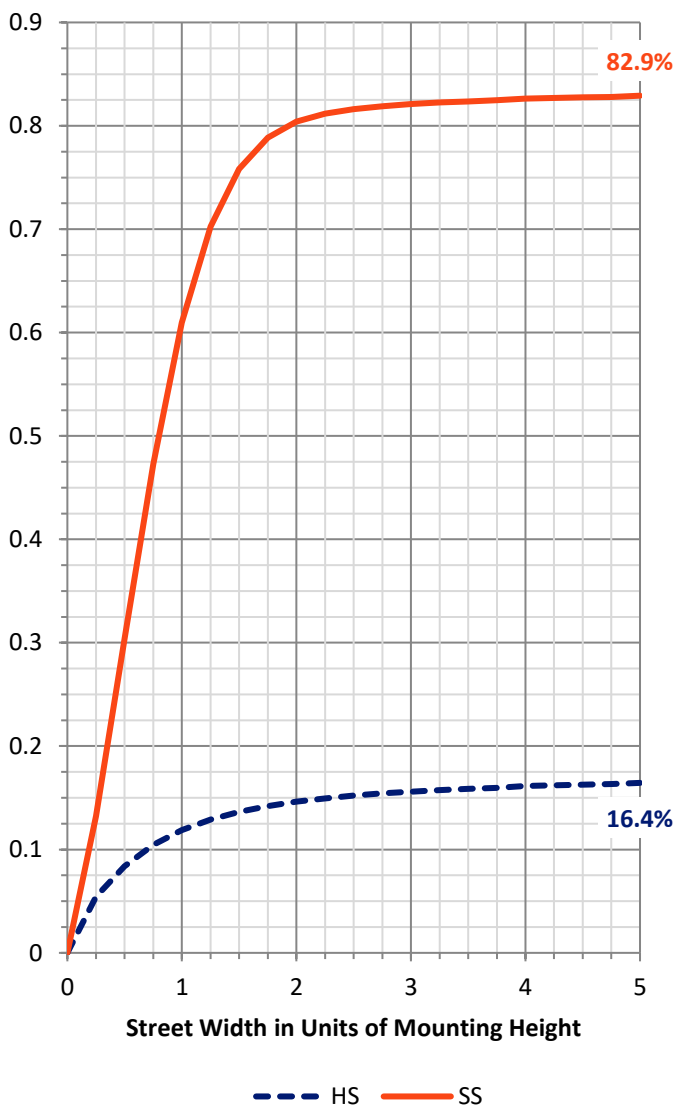
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.8	0.0	3591.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17754.2	0.0	17754.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	21346.0	0.0	21346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.1
10°-20°	930.9	4.4
20°-30°	1808.9	8.5
30°-40°	2952.6	13.8
40°-50°	4034.0	18.9
50°-60°	4698.8	22.0
60°-70°	4212.5	19.7
70°-80°	2128.8	10.0
80°-90°	343.8	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°	21346.0	100.0
0°-180°	21346.0	100.0

Coefficient of Utilization



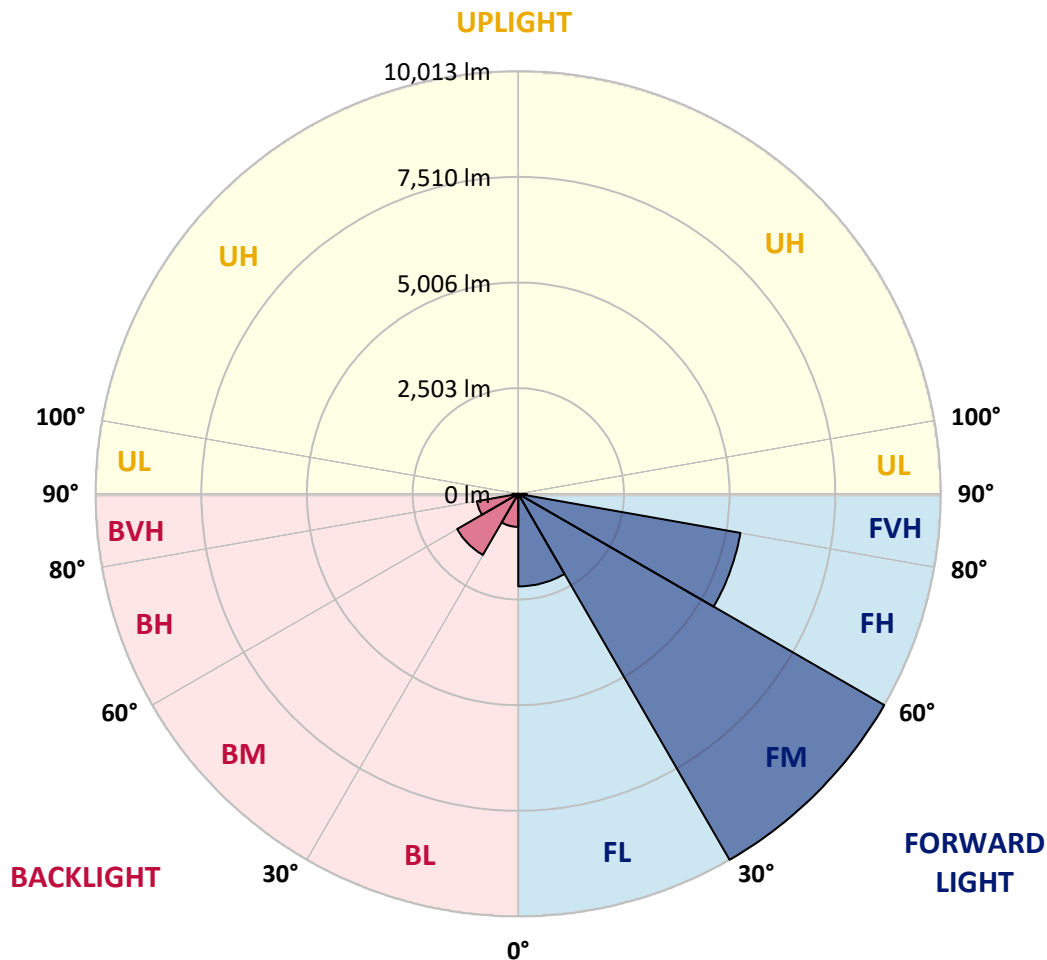
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.2	10.3			
FM (30°-60°)	10012.8	46.9			
FH (60°-80°)	5346.2	25.0			G3/7500
FVH (80°-90°)	203.0	1.0			G2/225
BL (0°-30°)	783.4	3.7	B2/1000		
BM (30°-60°)	1672.6	7.8	B2/2500		
BH (60°-80°)	995.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	140.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4
2.5°	2587.8	2548.7	2545.1	2487.8	2474.8	2365.3	2284.9	2200.8	2105.2	2086.3	2011.0
5°	3324.1	3320.5	3270.5	3177.0	3103.8	2916.8	2732.0	2536.4	2321.9	2287.1	2117.5
7.5°	3986.4	3980.6	3942.2	3841.5	3735.7	3506.0	3242.2	2942.2	2594.3	2542.9	2261.7
10°	4489.4	4487.2	4474.1	4400.2	4310.4	4090.1	3798.7	3389.3	2911.0	2840.7	2442.1
12.5°	4877.8	4882.1	4890.8	4864.7	4822.0	4634.3	4335.7	3863.2	3248.7	3179.1	2642.9
15°	5140.8	5153.9	5198.8	5235.8	5258.2	5143.0	4853.9	4348.0	3627.0	3543.7	2865.4
17.5°	5273.4	5287.9	5365.5	5477.1	5580.0	5568.4	5338.7	4810.4	3990.1	3909.6	3104.5
20°	5387.9	5398.8	5485.8	5619.8	5801.7	5882.2	5753.2	5255.3	4387.9	4292.2	3358.1
22.5°	5719.8	5733.6	5759.7	5835.8	5996.7	6144.5	6082.2	5676.4	4752.4	4663.3	3598.7
25°	6360.5	6377.1	6320.6	6256.1	6286.5	6389.4	6401.0	6060.4	5122.0	5021.3	3857.4
27.5°	7132.2	7156.1	7059.8	6893.8	6748.9	6709.0	6695.3	6375.0	5474.9	5358.2	4113.2
30°	7888.1	7929.4	7804.0	7588.8	7322.8	7135.9	6997.4	6682.9	5822.8	5711.2	4354.6
32.5°	8626.5	8609.8	8428.0	8217.8	7906.2	7672.1	7337.3	7013.4	6214.1	6085.8	4594.4
35°	9132.3	9138.1	8969.3	8720.0	8422.9	8243.2	7792.4	7369.9	6613.4	6495.2	4866.9
37.5°	9562.8	9536.0	9344.7	9112.0	8856.2	8779.4	8325.0	7762.7	7046.0	6917.0	5156.8
40°	9706.3	9675.1	9549.7	9382.3	9177.3	9170.7	8912.8	8207.7	7535.2	7407.6	5483.6
42.5°	9619.3	9579.5	9528.0	9482.4	9419.3	9448.3	9465.0	8729.4	8072.9	7930.1	5861.9
45°	9298.3	9238.1	9274.4	9373.6	9510.6	9674.4	9963.5	9307.0	8675.1	8555.5	6306.1
47.5°	8804.8	8750.4	8863.5	9075.8	9448.3	9862.8	10435.3	9944.7	9393.9	9275.1	6938.7
50°	8110.5	8126.5	8288.1	8674.3	9237.4	9949.8	11016.5	10788.9	10438.9	10328.0	7801.8
52.5°	6971.4	6974.3	7429.4	8063.4	8863.5	9904.8	11339.0	11868.0	11865.8	11731.7	8623.6
55°	5913.3	5977.8	6338.0	7180.8	8257.7	9725.1	11564.3	12392.6	12802.8	12645.5	9389.6
57.5°	4880.0	4917.6	5259.0	6105.4	7393.1	9246.1	11795.5	13022.4	13882.6	13783.3	10341.8
60°	3704.5	3762.5	4115.4	4897.3	6287.3	8396.1	11817.2	13679.7	15173.2	15073.2	11404.9
62.5°	2404.5	2504.5	2834.9	3567.6	4949.5	7173.5	11312.9	14109.4	16396.5	16360.9	12348.4
65°	1382.0	1457.3	1687.0	2252.3	3414.7	5638.7	10113.5	13944.2	17149.4	17129.1	12701.3
66°	1129.0	1176.1	1352.2	1760.2	2817.5	4951.7	9416.4	13595.6	17224.0	17224.8	12660.8
67.5°	902.9	924.0	1002.9	1260.2	2079.1	3924.8	8170.7	12826.7	17131.3	17156.6	12399.2
70°	747.1	758.0	782.6	845.0	1134.8	2366.8	5799.6	10828.8	16200.1	16219.6	11378.1
72.5°	670.3	676.8	686.3	695.0	800.8	1322.5	3542.2	8662.7	14203.6	14229.0	9822.2
75°	607.3	610.9	609.5	610.2	671.8	842.8	1830.5	6467.7	11484.6	11433.9	7524.3
77.5°	533.4	537.0	529.7	531.2	594.2	647.9	910.9	4527.8	7750.4	7392.4	4239.3
80°	450.7	453.6	450.7	455.8	517.4	489.2	529.7	2547.2	3427.0	3241.5	1507.3
82.5°	340.6	352.9	361.6	381.9	426.1	347.8	354.4	992.1	1043.5	993.5	462.3
85°	149.3	181.9	272.5	292.0	320.3	208.7	232.6	404.4	424.7	411.6	168.1
87.5°	39.1	42.8	134.8	169.6	177.5	94.2	121.0	184.1	194.2	184.1	55.8
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°	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4
2.5°	1971.1	1935.6	1871.8	1815.3	1772.6	1743.6	1714.6	1700.1	1691.4	1682.7	1684.1
5°	2034.2	1962.4	1853.0	1775.4	1732.0	1704.4	1689.9	1684.1	1680.5	1671.8	1671.8
7.5°	2129.1	2027.6	1876.9	1797.2	1763.1	1742.1	1733.4	1730.5	1726.2	1716.0	1717.5
10°	2248.7	2106.6	1926.9	1849.4	1818.2	1795.0	1782.7	1778.3	1770.4	1758.8	1760.2
12.5°	2389.2	2204.5	1992.9	1911.7	1874.0	1842.8	1822.6	1810.2	1796.5	1781.2	1782.0
15°	2542.9	2311.0	2063.9	1967.5	1916.0	1872.6	1839.9	1818.9	1797.2	1778.3	1777.6
17.5°	2698.7	2413.9	2118.2	1997.9	1928.4	1871.1	1826.9	1794.3	1767.5	1744.3	1742.1
20°	2866.8	2506.6	2148.7	1995.0	1905.2	1837.0	1778.3	1737.8	1708.1	1684.9	1681.2
22.5°	3037.8	2593.6	2153.7	1965.3	1853.7	1770.4	1708.8	1663.8	1633.4	1609.5	1600.8
25°	3194.4	2661.0	2132.7	1908.1	1782.0	1692.1	1632.0	1586.3	1561.7	1533.4	1524.7
27.5°	3337.1	2708.1	2090.7	1834.9	1701.5	1613.1	1556.6	1517.5	1490.7	1468.9	1461.7
30°	3465.4	2733.5	2021.8	1747.9	1618.9	1538.5	1490.7	1463.8	1440.7	1413.1	1408.0
32.5°	3587.1	2733.5	1933.4	1653.0	1537.0	1472.5	1444.3	1427.6	1401.5	1374.7	1367.5
35°	3708.9	2716.8	1829.1	1553.7	1461.7	1425.4	1424.0	1404.4	1364.6	1328.3	1318.9
37.5°	3837.1	2682.7	1711.7	1460.9	1400.1	1404.4	1416.7	1373.3	1316.7	1265.3	1251.5
40°	3982.1	2635.6	1589.9	1380.5	1348.6	1395.0	1397.2	1328.3	1218.2	1171.1	1158.8
42.5°	4152.4	2588.5	1476.9	1309.5	1308.0	1366.7	1360.2	1231.2	1165.3	1141.4	1134.8
45°	4376.3	2561.7	1369.6	1242.1	1276.1	1321.1	1297.2	1177.6	1150.1	1136.3	1130.5
47.5°	4729.2	2575.5	1271.1	1188.5	1244.3	1275.4	1179.8	1155.9	1136.3	1119.6	1113.8
50°	5171.3	2567.5	1191.4	1151.5	1208.0	1227.6	1126.9	1127.6	1117.4	1098.6	1089.9
52.5°	5503.9	2505.2	1139.9	1130.5	1176.1	1142.8	1093.5	1100.1	1095.0	1067.4	1058.0
55°	5824.9	2451.6	1113.8	1122.5	1153.0	1037.0	1054.4	1070.3	1065.3	1038.5	1034.1
57.5°	6224.2	2441.4	1097.9	1124.7	1133.4	984.1	1016.7	1037.7	1034.1	1022.5	1020.3
60°	6713.4	2444.3	1083.4	1128.3	1111.6	945.0	981.2	1008.0	1010.2	1008.0	1006.6
62.5°	6982.2	2365.3	1047.2	1118.2	1073.2	910.9	944.2	983.4	984.1	988.5	987.7
65°	6754.0	2129.1	979.8	1082.7	1008.7	882.7	912.4	955.1	944.2	963.8	963.8
66°	6532.2	1992.9	946.4	1059.5	981.2	871.8	902.2	940.6	926.9	953.7	953.7
67.5°	6079.3	1763.1	886.3	1010.2	942.1	856.6	890.6	916.7	897.9	937.7	934.8
70°	5251.7	1363.8	765.3	898.6	877.6	834.1	874.7	868.9	841.3	902.2	890.6
72.5°	4427.8	1036.3	614.5	752.2	779.7	805.8	852.2	808.0	773.2	816.0	790.6
75°	3435.7	779.0	485.5	584.8	658.7	761.6	825.4	737.7	687.7	683.4	669.6
77.5°	1857.3	534.8	384.8	446.4	523.2	706.6	807.3	662.4	587.0	569.6	558.7
80°	735.5	347.8	279.7	338.4	366.0	626.8	763.8	574.7	484.1	466.7	450.0
82.5°	303.6	205.8	180.4	226.8	238.4	536.3	685.5	471.0	373.9	517.4	549.3
85°	130.4	113.0	107.3	117.4	134.8	376.1	545.7	359.4	403.6	360.2	286.2
87.5°	39.1	47.8	45.7	44.9	49.3	89.9	290.6	200.0	296.4	112.3	84.1
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)