

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: P317577

Luminaire Tested: **GLEON-SA3D-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317577
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-SA3D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18143 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 191
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

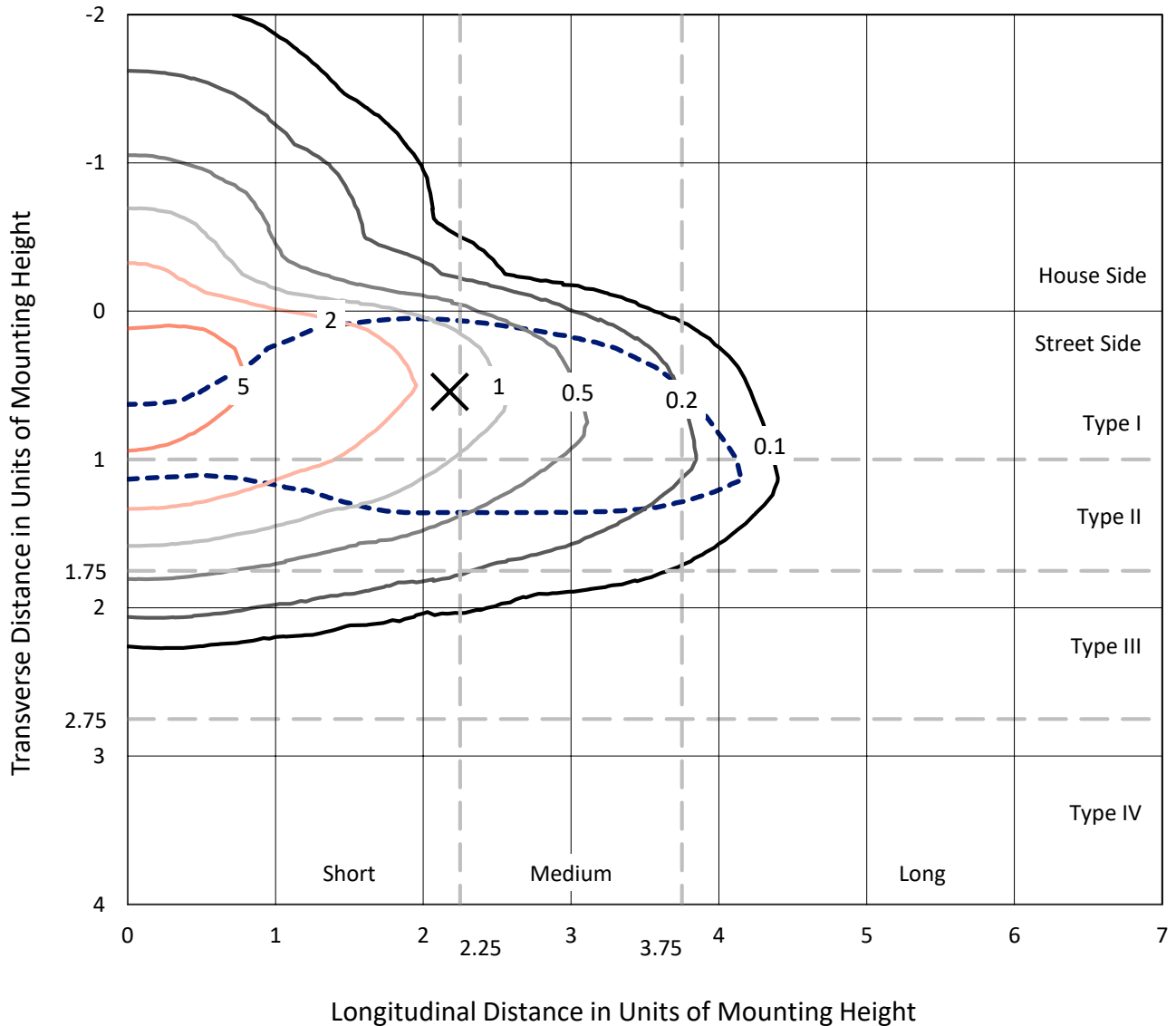




REPORT NUMBER: P317577
 CATALOG NUMBER: GLEON-SA3D-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

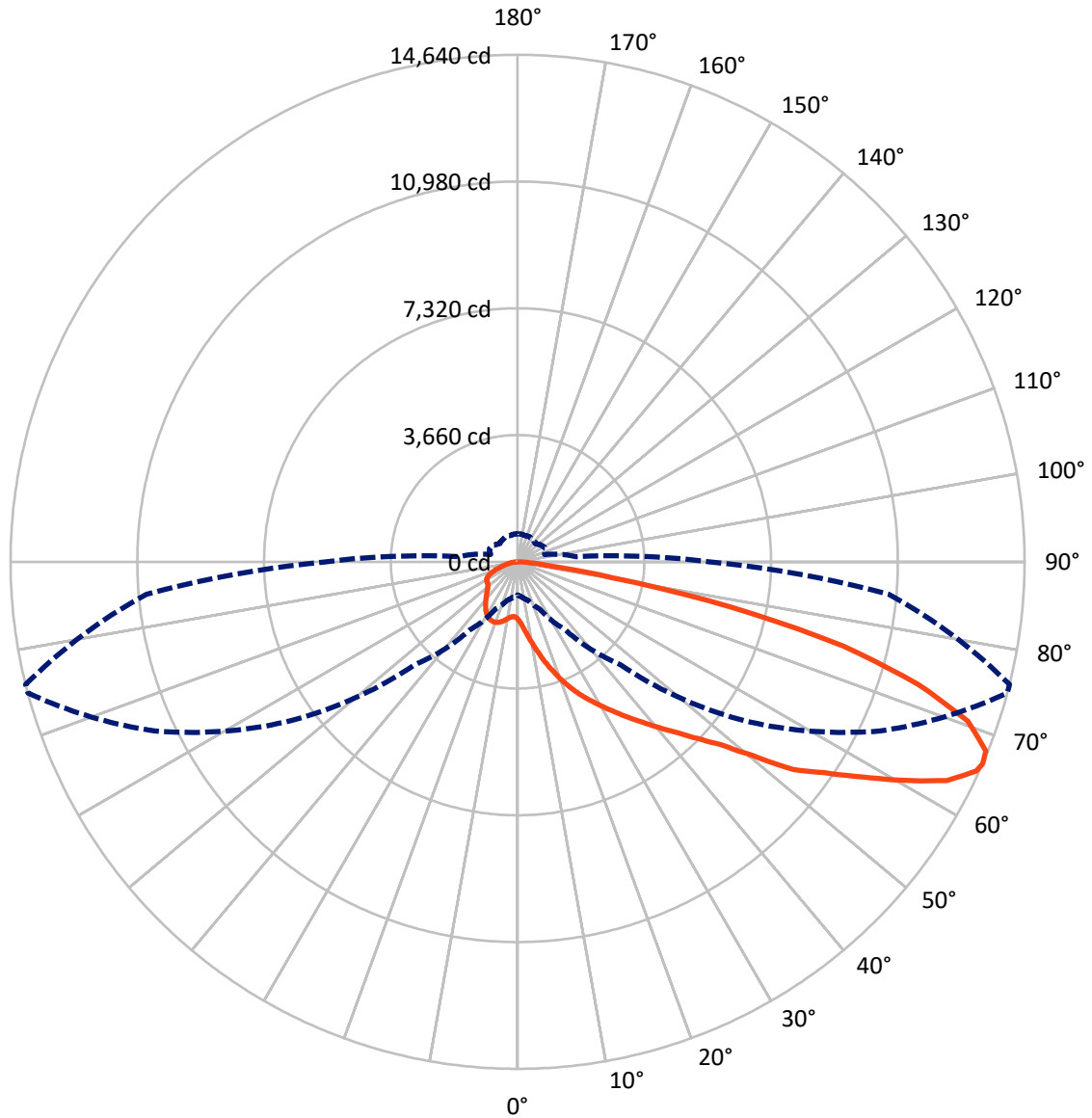
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P317577
CATALOG NUMBER: GLEON-SA3D-827-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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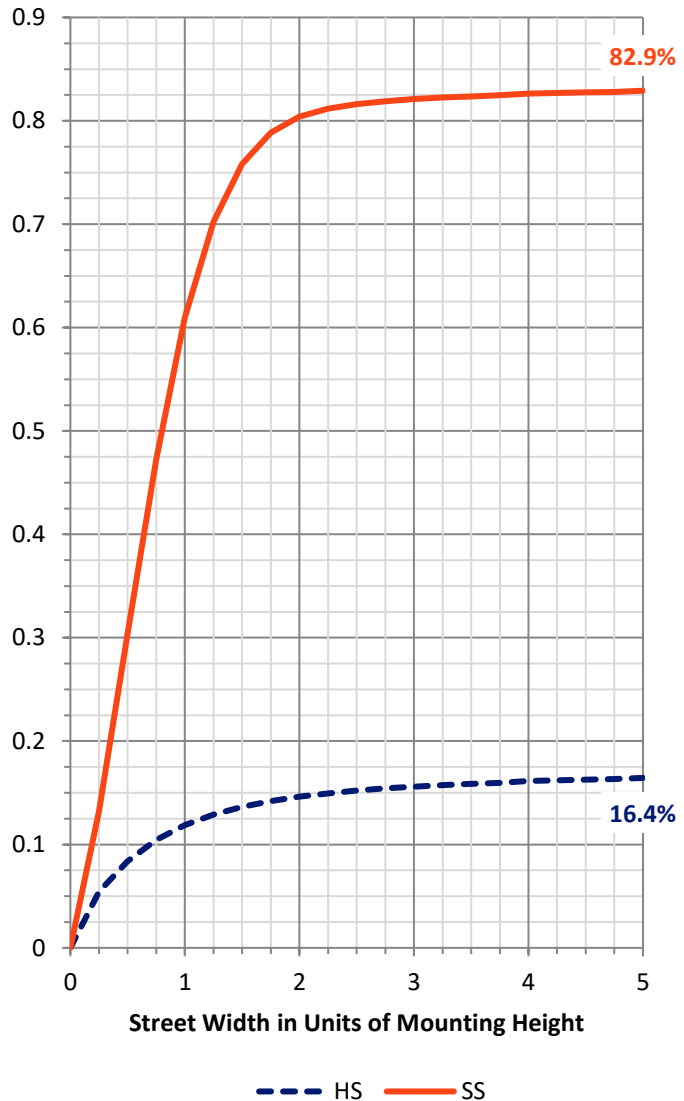
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3052.8	0.0	3052.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15090.2	0.0	15090.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	18143.0	0.0	18143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.1
10°-20°	791.2	4.4
20°-30°	1537.5	8.5
30°-40°	2509.6	13.8
40°-50°	3428.7	18.9
50°-60°	3993.7	22.0
60°-70°	3580.4	19.7
70°-80°	1809.4	10.0
80°-90°	292.2	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°	18143.0	100.0
0°-180°	18143.0	100.0

Coefficient of Utilization



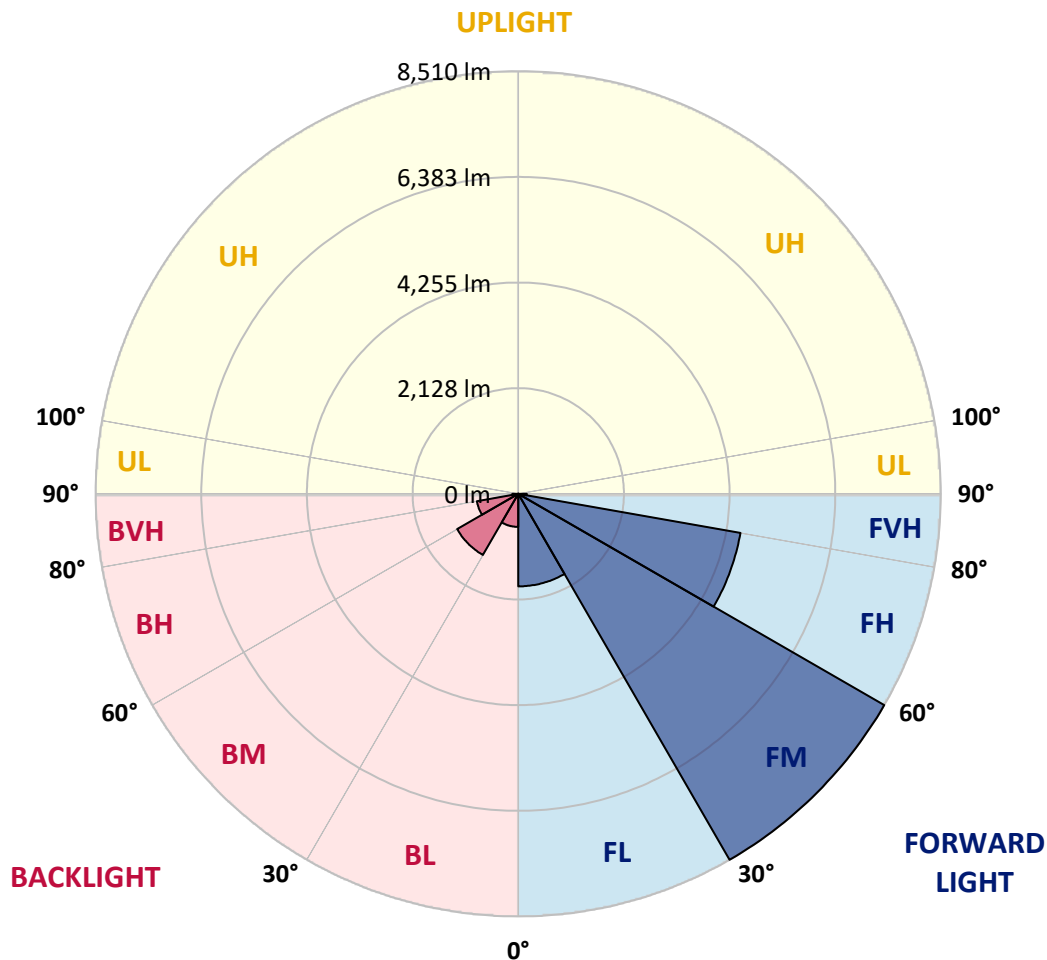
REPORT NUMBER: P317577
 CATALOG NUMBER: GLEON-SA3D-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.2	10.3			
FM (30°-60°)	8510.3	46.9			
FH (60°-80°)	4544.0	25.0			G2/5000
FVH (80°-90°)	172.6	1.0			G2/225
BL (0°-30°)	665.8	3.7	B2/1000		
BM (30°-60°)	1421.6	7.8	B2/2500		
BH (60°-80°)	845.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	119.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
2.5°	2199.5	2166.2	2163.2	2114.5	2103.4	2010.4	1942.0	1870.6	1789.3	1773.3	1709.2
5°	2825.3	2822.2	2779.7	2700.3	2638.0	2479.1	2322.1	2155.8	1973.5	1943.9	1799.8
7.5°	3388.3	3383.3	3350.7	3265.1	3175.1	2979.9	2755.7	2500.7	2205.0	2161.3	1922.3
10°	3815.7	3813.9	3802.8	3740.0	3663.6	3476.3	3228.7	2880.7	2474.2	2414.5	2075.7
12.5°	4145.9	4149.6	4156.9	4134.8	4098.4	3938.9	3685.1	3283.5	2761.2	2702.1	2246.3
15°	4369.4	4380.5	4418.7	4450.1	4469.2	4371.3	4125.5	3695.6	3082.8	3011.9	2435.4
17.5°	4482.2	4494.5	4560.4	4655.2	4742.7	4732.8	4537.6	4088.6	3391.3	3323.0	2638.7
20°	4579.5	4588.7	4662.6	4776.6	4931.2	4999.5	4889.9	4466.8	3729.5	3648.2	2854.2
22.5°	4861.6	4873.3	4895.5	4960.1	5096.9	5222.5	5169.5	4824.6	4039.3	3963.5	3058.7
25°	5406.1	5420.2	5372.2	5317.4	5343.2	5430.7	5440.6	5151.1	4353.4	4267.8	3278.6
27.5°	6062.0	6082.4	6000.4	5859.4	5736.2	5702.3	5690.6	5418.4	4653.4	4554.2	3496.0
30°	6704.5	6739.6	6633.0	6450.1	6224.0	6065.1	5947.5	5680.2	4949.0	4854.2	3701.2
32.5°	7332.1	7317.9	7163.3	6984.7	6719.9	6520.9	6236.3	5961.0	5281.6	5172.6	3905.0
35°	7762.0	7766.9	7623.4	7411.5	7159.0	7006.3	6623.1	6264.1	5621.0	5520.6	4136.6
37.5°	8127.9	8105.1	7942.5	7744.8	7527.3	7462.1	7075.9	6597.9	5988.7	5879.1	4383.0
40°	8249.8	8223.3	8116.8	7974.5	7800.2	7794.7	7575.4	6976.1	6404.5	6296.1	4660.8
42.5°	8175.9	8142.0	8098.3	8059.5	8005.9	8030.6	8044.7	7419.6	6861.5	6740.2	4982.3
45°	7903.1	7851.9	7882.7	7967.1	8083.5	8222.7	8468.5	7910.5	7373.4	7271.7	5359.9
47.5°	7483.6	7437.4	7533.5	7714.0	8030.6	8382.9	8869.5	8452.5	7984.4	7883.4	5897.6
50°	6893.5	6907.1	7044.4	7372.7	7851.3	8456.8	9363.4	9170.0	8872.5	8778.3	6631.2
52.5°	5925.3	5927.8	6314.6	6853.5	7533.5	8418.6	9637.5	10087.2	10085.3	9971.4	7329.6
55°	5026.0	5080.8	5387.0	6103.3	7018.6	8265.8	9829.1	10533.1	10881.7	10748.1	7980.7
57.5°	4147.7	4179.7	4469.8	5189.3	6283.8	7858.7	10025.6	11068.4	11799.5	11715.1	8790.0
60°	3148.7	3197.9	3497.9	4162.5	5343.9	7136.2	10044.1	11627.0	12896.4	12811.4	9693.6
62.5°	2043.7	2128.7	2409.5	3032.2	4206.8	6097.1	9615.4	11992.3	13936.1	13906.0	10495.5
65°	1174.6	1238.6	1433.9	1914.3	2902.3	4792.6	8596.0	11851.8	14576.1	14558.9	10795.5
66°	959.6	999.7	1149.3	1496.1	2394.8	4208.7	8003.5	11555.6	14639.5	14640.2	10761.0
67.5°	767.5	785.3	852.5	1071.1	1767.1	3335.9	6944.7	10902.0	14560.7	14582.3	10538.6
70°	635.0	644.3	665.2	718.2	964.6	2011.6	4929.3	9203.9	13769.2	13785.9	9670.8
72.5°	569.7	575.3	583.3	590.7	680.6	1124.1	3010.7	7362.9	12072.3	12093.9	8348.4
75°	516.2	519.2	518.0	518.6	571.0	716.3	1555.9	5497.2	9761.3	9718.2	6395.3
77.5°	453.3	456.4	450.2	451.5	505.1	550.6	774.2	3848.4	6587.4	6283.2	3603.2
80°	383.1	385.6	383.1	387.4	439.8	415.8	450.2	2165.0	2912.8	2755.1	1281.1
82.5°	289.5	300.0	307.4	324.6	362.2	295.6	301.2	843.2	886.9	844.4	393.0
85°	126.9	154.6	231.6	248.2	272.2	177.4	197.7	343.7	360.9	349.9	142.9
87.5°	33.3	36.3	114.6	144.1	150.9	80.1	102.9	156.4	165.1	156.4	47.4
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°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
2.5°	1675.3	1645.2	1591.0	1542.9	1506.6	1481.9	1457.3	1445.0	1437.6	1430.2	1431.4
5°	1728.9	1668.0	1574.9	1509.0	1472.1	1448.7	1436.4	1431.4	1428.4	1421.0	1421.0
7.5°	1809.6	1723.4	1595.3	1527.5	1498.6	1480.7	1473.3	1470.9	1467.2	1458.5	1459.8
10°	1911.2	1790.5	1637.8	1571.9	1545.4	1525.7	1515.2	1511.5	1504.7	1494.9	1496.1
12.5°	2030.7	1873.7	1693.8	1624.8	1592.8	1566.3	1549.1	1538.6	1526.9	1514.0	1514.6
15°	2161.3	1964.2	1754.2	1672.3	1628.5	1591.6	1563.9	1546.0	1527.5	1511.5	1510.9
17.5°	2293.7	2051.7	1800.4	1698.1	1639.0	1590.3	1552.8	1525.1	1502.3	1482.6	1480.7
20°	2436.6	2130.5	1826.2	1695.7	1619.3	1561.4	1511.5	1477.0	1451.8	1432.0	1429.0
22.5°	2582.0	2204.4	1830.6	1670.4	1575.6	1504.7	1452.4	1414.2	1388.3	1368.0	1360.6
25°	2715.0	2261.7	1812.7	1621.8	1514.6	1438.2	1387.1	1348.3	1327.3	1303.3	1295.9
27.5°	2836.4	2301.7	1777.0	1559.5	1446.2	1371.1	1323.0	1289.8	1267.0	1248.5	1242.3
30°	2945.4	2323.3	1718.5	1485.6	1376.0	1307.6	1267.0	1244.2	1224.5	1201.1	1196.8
32.5°	3048.9	2323.3	1643.3	1404.9	1306.4	1251.6	1227.6	1213.4	1191.2	1168.4	1162.3
35°	3152.4	2309.1	1554.6	1320.6	1242.3	1211.5	1210.3	1193.7	1159.8	1129.0	1121.0
37.5°	3261.4	2280.2	1454.8	1241.7	1190.0	1193.7	1204.2	1167.2	1119.2	1075.4	1063.7
40°	3384.6	2240.2	1351.4	1173.4	1146.3	1185.7	1187.5	1129.0	1035.4	995.4	984.9
42.5°	3529.3	2200.1	1255.3	1113.0	1111.8	1161.7	1156.1	1046.5	990.4	970.1	964.6
45°	3719.6	2177.3	1164.1	1055.7	1084.7	1122.8	1102.5	1000.9	977.5	965.8	960.9
47.5°	4019.6	2189.0	1080.3	1010.1	1057.6	1084.0	1002.7	982.4	965.8	951.6	946.7
50°	4395.3	2182.3	1012.6	978.7	1026.8	1043.4	957.8	958.4	949.8	933.8	926.4
52.5°	4678.0	2129.3	968.9	960.9	999.7	971.3	929.4	935.0	930.7	907.3	899.3
55°	4950.9	2083.7	946.7	954.1	980.0	881.4	896.2	909.7	905.4	882.6	878.9
57.5°	5290.3	2075.1	933.1	955.9	963.3	836.4	864.2	882.0	878.9	869.1	867.2
60°	5706.0	2077.5	920.8	959.0	944.8	803.2	834.0	856.8	858.6	856.8	855.5
62.5°	5934.5	2010.4	890.0	950.4	912.2	774.2	802.6	835.8	836.4	840.1	839.5
65°	5740.5	1809.6	832.7	920.2	857.4	750.2	775.5	811.8	802.6	819.2	819.2
66°	5552.0	1693.8	804.4	900.5	834.0	741.0	766.8	799.5	787.8	810.6	810.6
67.5°	5167.1	1498.6	753.3	858.6	800.7	728.0	757.0	779.2	763.1	797.0	794.6
70°	4463.7	1159.2	650.4	763.8	745.9	708.9	743.4	738.5	715.1	766.8	757.0
72.5°	3763.4	880.8	522.3	639.3	662.7	684.9	724.3	686.8	657.2	693.5	672.0
75°	2920.1	662.1	412.7	497.1	559.9	647.3	701.5	627.0	584.5	580.8	569.1
77.5°	1578.6	454.6	327.1	379.4	444.7	600.5	686.2	563.0	498.9	484.1	474.9
80°	625.2	295.6	237.8	287.6	311.0	532.8	649.2	488.4	411.4	396.7	382.5
82.5°	258.1	174.9	153.4	192.8	202.6	455.8	582.7	400.4	317.8	439.8	466.9
85°	110.9	96.1	91.2	99.8	114.6	319.7	463.8	305.5	343.1	306.1	243.3
87.5°	33.3	40.7	38.8	38.2	41.9	76.4	247.0	170.0	251.9	95.5	71.4
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)