

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: P647349

Luminaire Tested: **GALN-SA3D-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 18427.9 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

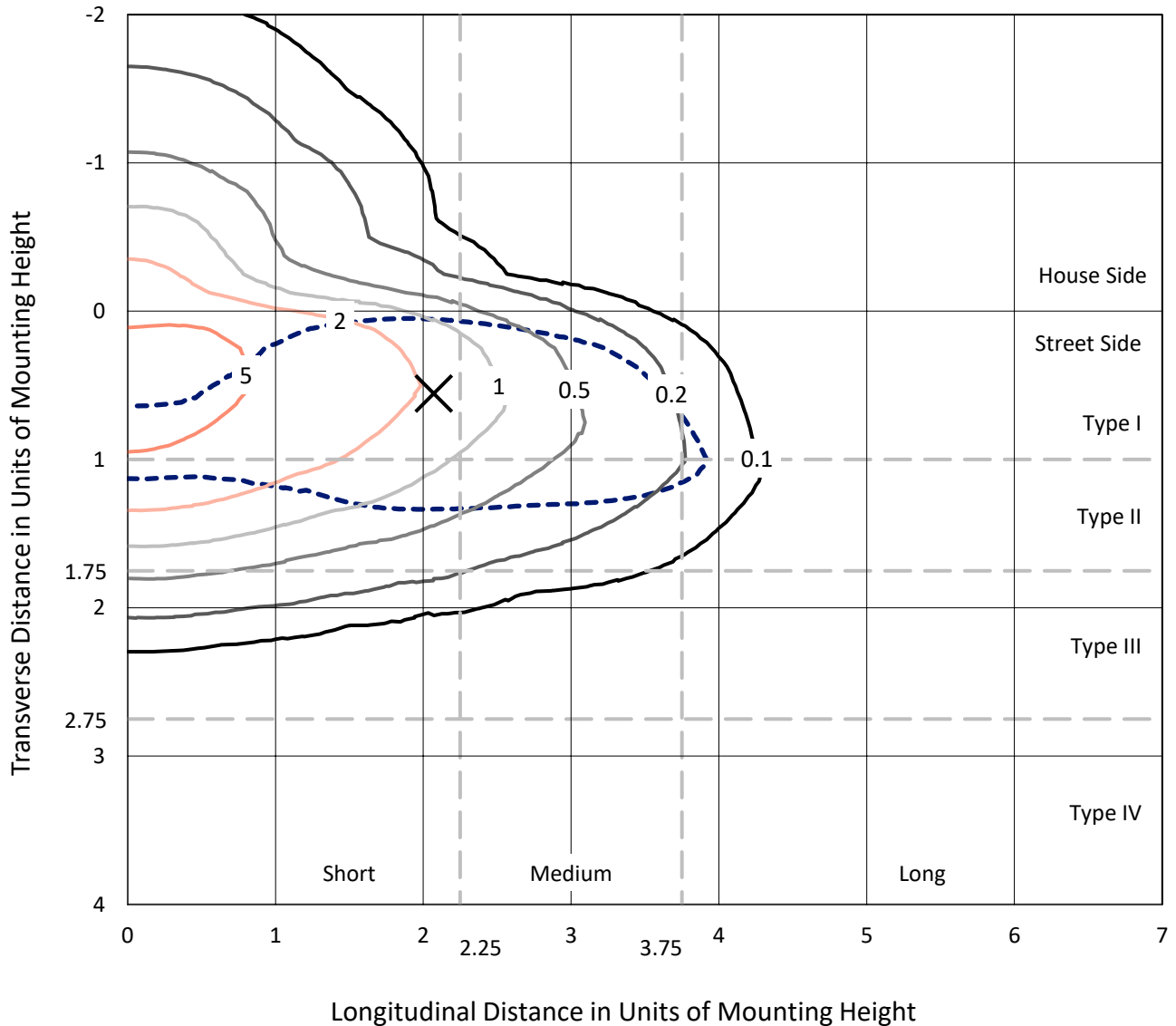
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

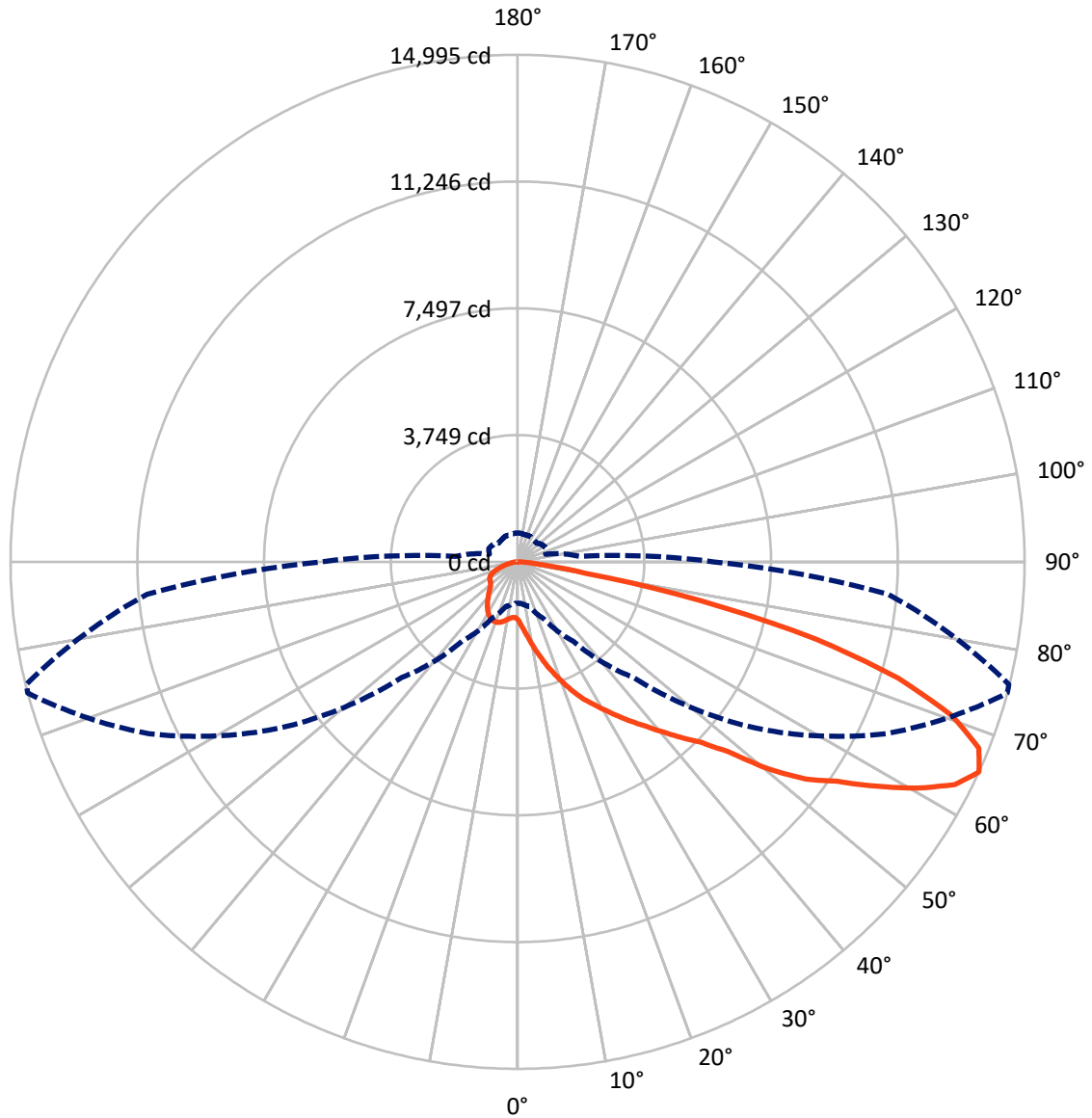
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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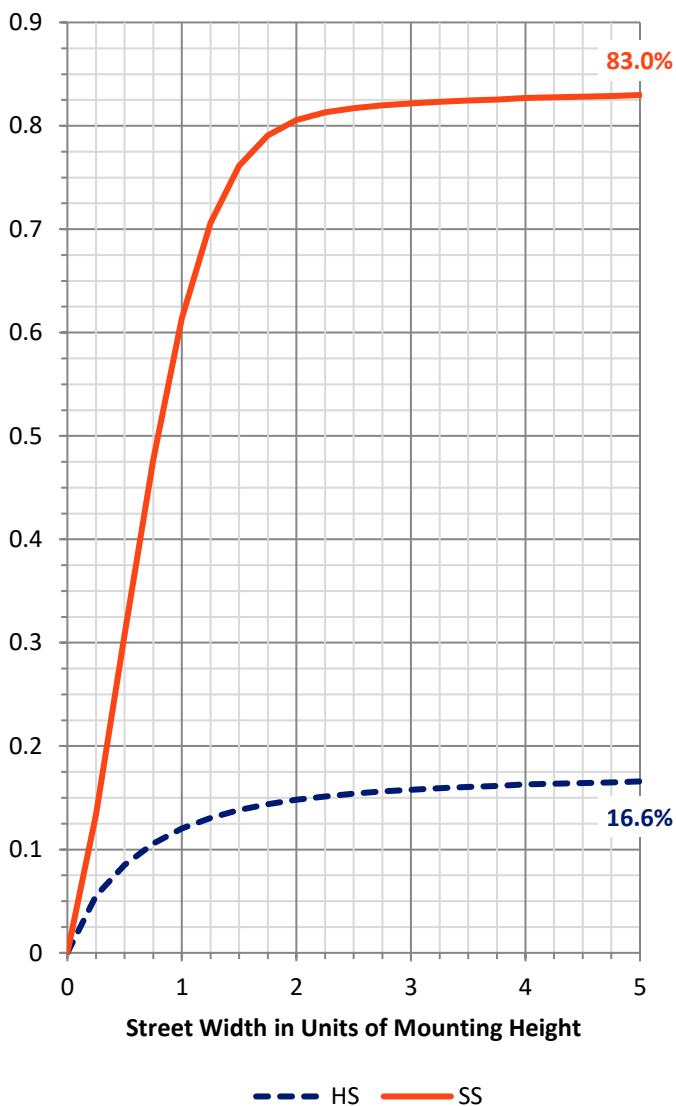
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3098.0	0.0	3098.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15329.9	0.0	15329.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	18427.9	0.0	18427.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.1
10°-20°	814.8	4.4
20°-30°	1573.9	8.5
30°-40°	2556.5	13.9
40°-50°	3516.8	19.1
50°-60°	4152.1	22.5
60°-70°	3637.9	19.7
70°-80°	1736.8	9.4
80°-90°	231.1	1.3
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°	18427.9	100.0
0°-180°	18427.9	100.0

Coefficient of Utilization



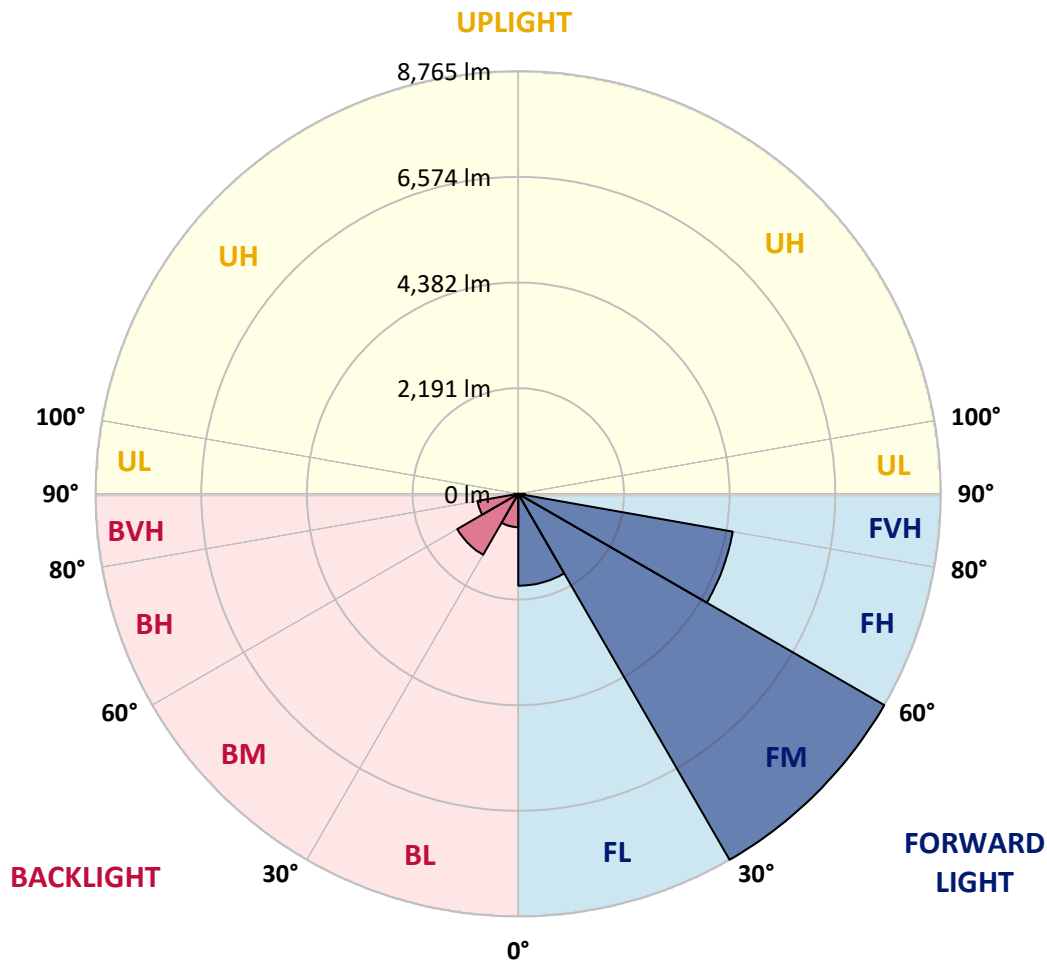
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.2	10.3			
FM (30°-60°)	8764.7	47.6			
FH (60°-80°)	4515.7	24.5			G2/5000
FVH (80°-90°)	144.4	0.8			G2/225
BL (0°-30°)	691.6	3.8	B2/1000		
BM (30°-60°)	1460.7	7.9	B2/2500		
BH (60°-80°)	859.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.7	0.5			G1/100
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°	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2
2.5°	2274.9	2259.9	2243.9	2199.9	2152.9	2100.0	2024.1	1951.1	1854.1	1851.1	1779.1
5°	2905.6	2895.6	2824.7	2783.6	2674.7	2529.8	2406.9	2216.0	2039.0	2018.0	1878.1
7.5°	3485.4	3446.4	3419.4	3345.4	3237.5	3051.6	2813.6	2555.8	2259.9	2231.9	2000.0
10°	3922.1	3918.1	3904.1	3840.1	3759.2	3574.3	3310.4	2940.6	2539.8	2484.9	2148.0
12.5°	4248.9	4252.0	4250.0	4248.9	4191.0	4034.1	3748.2	3358.4	2822.6	2783.6	2318.9
15°	4463.9	4493.9	4505.9	4555.8	4560.8	4455.9	4210.0	3762.2	3141.5	3083.5	2502.8
17.5°	4605.8	4620.8	4676.8	4761.7	4830.7	4811.7	4592.8	4136.0	3467.4	3370.4	2693.8
20°	4741.8	4767.8	4810.7	4926.6	5048.6	5104.5	4950.7	4518.8	3790.2	3728.3	2904.6
22.5°	5024.6	5061.6	5076.6	5135.5	5239.5	5338.5	5268.5	4885.7	4144.0	4060.1	3128.5
25°	5503.4	5542.4	5500.4	5486.4	5520.4	5569.3	5554.4	5231.5	4477.9	4357.9	3340.4
27.5°	6127.1	6132.1	6050.1	5972.2	5888.2	5863.2	5817.2	5538.4	4767.8	4667.8	3553.3
30°	6796.8	6772.8	6636.9	6495.9	6354.0	6214.0	6082.1	5834.2	5090.6	4975.7	3762.2
32.5°	7418.5	7405.5	7254.6	7035.6	6795.7	6663.8	6397.0	6133.1	5436.4	5325.5	3977.1
35°	7884.3	7903.2	7737.3	7498.4	7236.6	7119.6	6782.7	6446.9	5794.3	5673.3	4211.0
37.5°	8215.1	8205.1	8058.2	7851.3	7621.4	7519.4	7233.6	6789.8	6179.0	6063.1	4466.9
40°	8333.0	8327.0	8218.1	8067.2	7921.2	7885.3	7705.3	7159.6	6619.9	6483.9	4774.7
42.5°	8258.1	8271.1	8199.1	8158.2	8131.1	8157.1	8174.1	7644.4	7100.6	6975.7	5108.6
45°	8028.2	8021.2	8011.2	8078.1	8230.1	8401.0	8637.9	8102.2	7623.4	7523.5	5556.3
47.5°	7617.3	7667.4	7692.3	7877.2	8209.1	8613.9	9171.7	8715.9	8382.0	8295.0	6239.0
50°	7042.6	7082.6	7230.5	7559.4	8054.2	8693.9	9693.4	9719.4	9647.4	9484.5	6980.7
52.5°	6145.1	6207.1	6511.9	7114.7	7736.4	8660.8	10009.2	10580.0	10675.0	10553.0	7711.3
55°	5140.6	5227.5	5549.4	6340.0	7298.5	8481.0	10227.2	11078.7	11457.6	11344.6	8415.0
57.5°	4157.0	4248.9	4579.8	5345.5	6534.9	8083.1	10370.1	11634.4	12523.1	12376.1	9290.6
60°	3115.5	3211.5	3495.3	4283.9	5447.4	7305.5	10273.1	12116.2	13587.6	13524.6	10167.2
62.5°	2010.0	2116.0	2362.9	3015.6	4187.0	6243.0	9754.4	12382.1	14509.1	14433.1	10806.9
65°	1224.5	1236.4	1372.4	1872.1	2865.6	4833.7	8567.9	12029.3	14994.8	14971.9	11001.8
67.5°	791.6	810.6	872.6	1121.5	1718.2	3357.4	6850.7	10864.8	14711.0	14703.0	10598.9
70°	668.7	674.7	702.7	756.6	998.6	2036.0	4810.7	9008.7	13632.5	13632.5	9630.4
72.5°	597.7	605.7	615.7	632.7	712.7	1153.4	2870.6	7012.6	11770.4	11848.4	8197.1
75°	542.8	540.7	546.8	549.7	607.7	753.6	1484.3	5186.5	9105.7	8949.8	5936.2
77.5°	464.8	467.8	464.8	477.8	536.7	573.7	753.6	3480.4	5518.3	5316.5	2979.5
80°	381.8	386.8	391.8	399.8	458.8	435.8	452.8	1586.3	2041.0	1998.1	920.6
82.5°	286.9	293.9	301.8	320.9	360.8	287.8	285.9	677.7	736.6	674.7	338.8
85°	116.0	136.9	206.9	225.9	226.9	157.9	175.9	282.9	300.8	293.9	133.0
87.5°	27.0	31.9	66.9	100.9	92.9	59.0	65.0	91.9	104.9	96.9	44.9
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°	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2
2.5°	1746.2	1711.2	1651.2	1605.2	1572.3	1543.3	1525.3	1514.2	1510.3	1509.3	1510.3
5°	1805.1	1743.2	1648.2	1588.2	1555.3	1536.2	1525.3	1524.3	1525.3	1526.3	1523.2
7.5°	1886.1	1797.1	1673.2	1617.2	1592.2	1578.2	1573.3	1571.2	1572.3	1571.2	1571.2
10°	1994.1	1872.1	1722.2	1664.2	1643.2	1627.2	1619.2	1614.2	1610.2	1606.2	1604.2
12.5°	2113.0	1955.1	1775.1	1719.2	1689.2	1664.2	1646.2	1633.3	1624.3	1615.3	1613.2
15°	2246.0	2043.0	1834.1	1756.2	1713.2	1676.2	1645.2	1624.3	1608.2	1595.2	1594.3
17.5°	2372.9	2126.0	1874.1	1773.2	1710.2	1658.2	1617.2	1588.2	1568.3	1551.3	1549.2
20°	2508.8	2204.9	1892.1	1762.1	1680.2	1617.2	1563.3	1528.3	1505.3	1486.3	1483.3
22.5°	2645.8	2272.0	1890.1	1727.1	1628.2	1554.3	1497.3	1460.3	1433.3	1414.3	1407.4
25°	2776.7	2325.9	1865.1	1671.2	1556.3	1479.3	1421.3	1387.3	1363.4	1340.3	1340.3
27.5°	2894.6	2357.8	1818.1	1603.3	1482.3	1401.3	1355.4	1324.4	1302.4	1287.4	1278.4
30°	3010.6	2372.9	1754.2	1517.3	1404.3	1335.3	1298.4	1280.4	1260.4	1243.4	1241.4
32.5°	3114.5	2369.9	1674.2	1433.3	1330.4	1281.4	1266.4	1252.4	1231.4	1207.5	1201.4
35°	3215.5	2349.9	1579.2	1341.4	1268.4	1249.4	1253.4	1233.4	1195.4	1165.4	1160.5
37.5°	3325.4	2313.9	1475.3	1266.4	1216.4	1234.4	1244.4	1200.4	1138.5	1091.5	1080.5
40°	3452.3	2272.9	1367.4	1191.4	1175.4	1220.4	1220.4	1139.4	1054.5	1025.5	1017.5
42.5°	3601.3	2238.9	1277.4	1128.5	1141.5	1186.4	1181.5	1058.5	1023.5	1008.5	1004.5
45°	3837.2	2226.9	1184.4	1073.5	1113.5	1146.5	1105.4	1030.5	1010.5	998.6	994.5
47.5°	4210.0	2240.9	1102.5	1032.5	1081.5	1106.5	1020.5	1011.6	997.5	980.6	978.5
50°	4555.8	2227.9	1044.5	1009.5	1053.5	1058.5	985.6	988.5	980.6	961.5	957.5
52.5°	4838.7	2187.0	1007.5	997.5	1029.5	974.5	952.5	963.6	960.5	936.5	932.6
55°	5149.6	2161.9	989.6	997.5	1013.5	901.5	921.6	937.6	933.6	916.6	915.6
57.5°	5526.3	2167.0	976.6	1000.5	997.5	864.6	890.6	909.5	908.6	903.6	903.6
60°	5912.2	2169.0	956.5	999.5	978.5	835.6	858.6	885.6	887.6	890.6	890.6
62.5°	6040.1	2082.0	917.6	981.6	936.5	807.6	828.6	865.6	863.6	871.6	872.6
65°	5801.2	1841.1	859.6	940.5	882.6	787.6	805.6	839.6	828.6	849.6	853.6
67.5°	5280.5	1523.2	769.6	866.6	822.6	766.6	790.6	803.6	783.6	824.6	825.6
70°	4563.8	1189.5	655.7	761.6	754.7	744.6	778.6	758.6	730.6	780.7	770.6
72.5°	3816.2	908.6	523.7	622.7	663.7	711.7	757.6	700.6	661.7	676.7	658.7
75°	2866.6	671.7	420.8	487.7	552.7	664.7	738.7	630.7	570.7	556.7	552.7
77.5°	1461.3	438.8	314.8	364.8	414.8	600.7	712.7	548.7	472.8	450.8	440.8
80°	521.7	272.9	221.9	251.9	279.8	516.8	622.7	453.7	366.8	362.8	366.8
82.5°	241.9	175.9	148.9	164.9	165.9	344.8	474.8	338.8	278.9	423.8	357.8
85°	104.0	87.9	83.9	82.0	76.0	153.9	266.8	181.9	283.8	126.9	117.0
87.5°	31.0	35.0	31.0	23.0	17.0	17.0	27.0	10.0	7.0	5.0	5.0
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)