

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: P455907

Luminaire Tested: **GALN-SA7A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23645 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

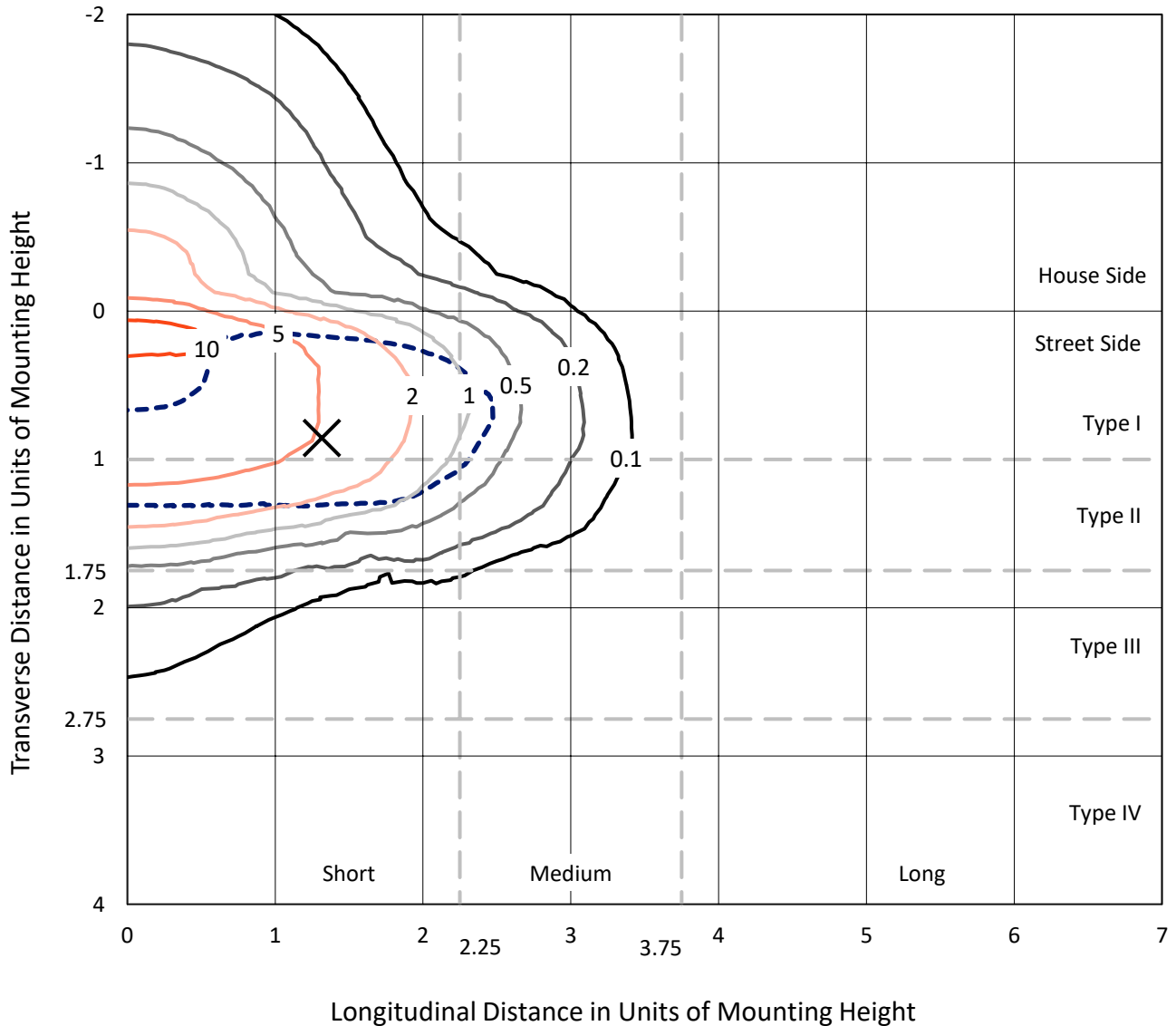
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

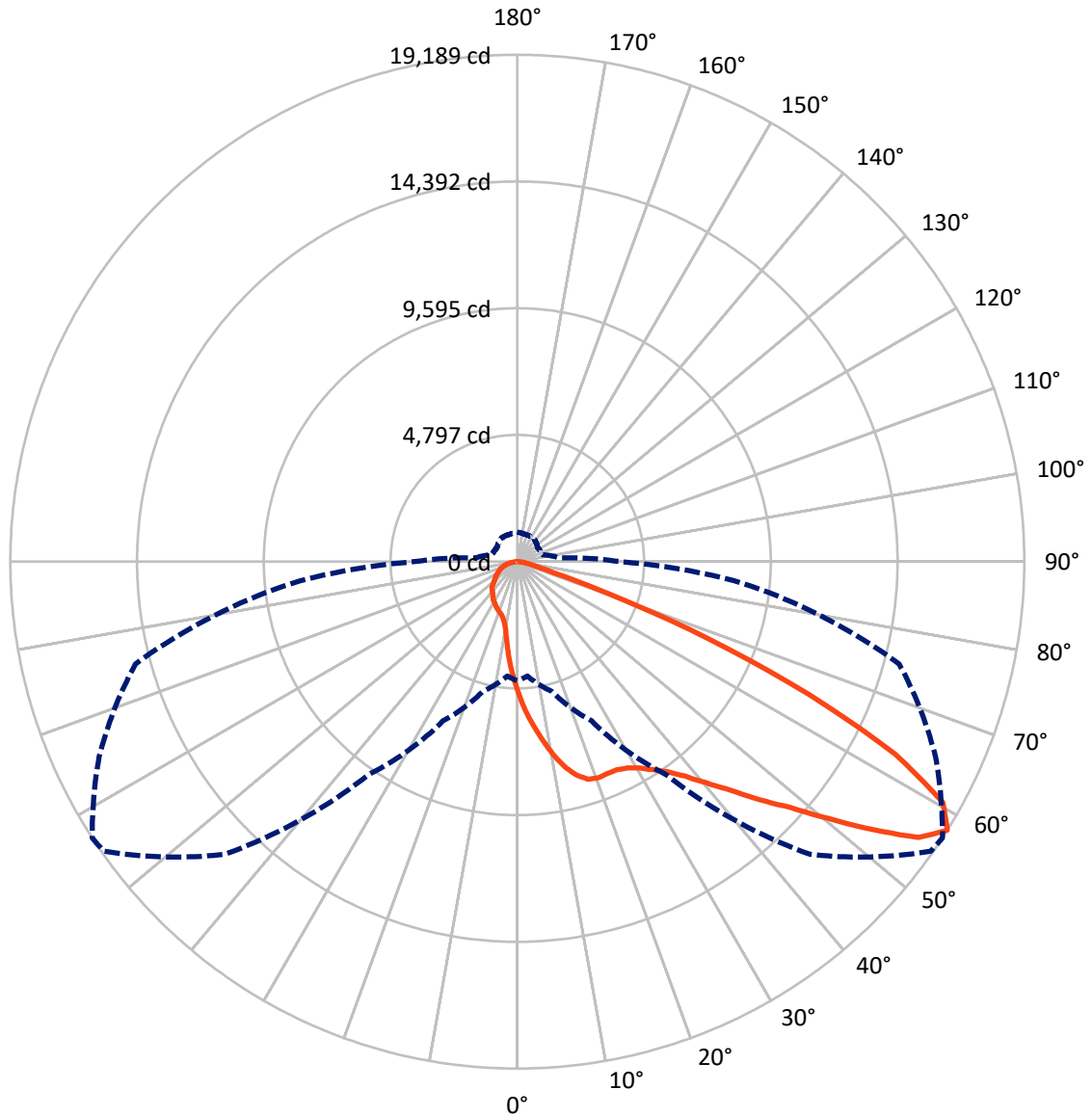
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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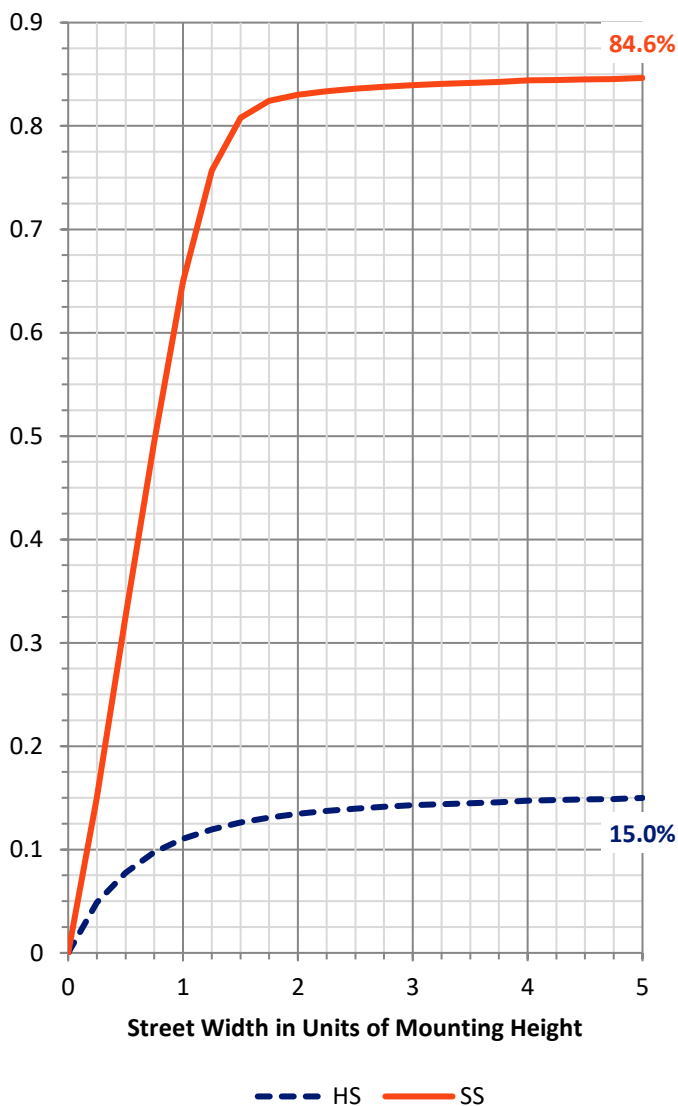
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.7	0.0	3595.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	20049.3	0.0	20049.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	23645.0	0.0	23645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	2.0
10°-20°	1407.0	6.0
20°-30°	2336.4	9.9
30°-40°	3519.2	14.9
40°-50°	5283.8	22.3
50°-60°	5922.5	25.0
60°-70°	3466.1	14.7
70°-80°	1025.3	4.3
80°-90°	207.2	0.9
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°	23645.0	100.0
0°-180°	23645.0	100.0

Coefficient of Utilization



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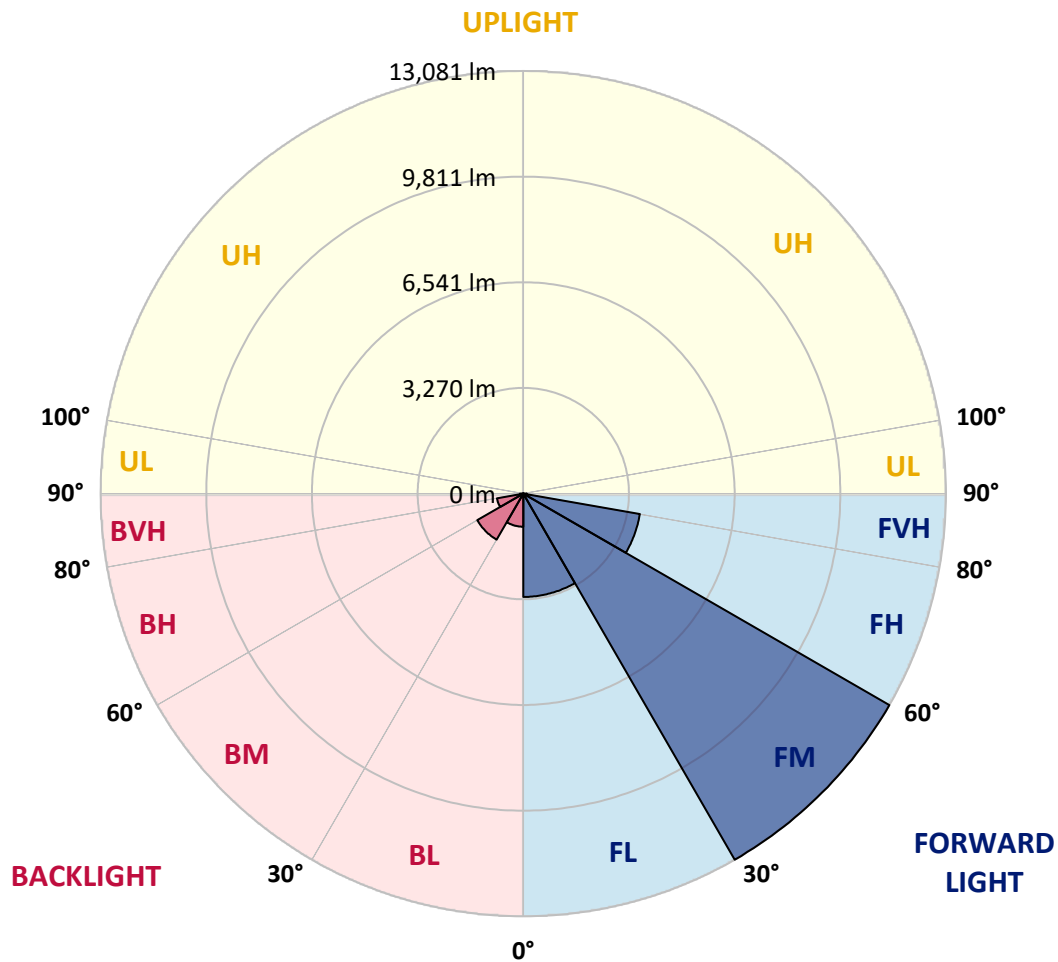
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3196.3	13.5			
FM	(30°-60°)	13081.5	55.3			
FH	(60°-80°)	3664.0	15.5			G2/5000
FVH	(80°-90°)	107.5	0.5			G2/225
BL	(0°-30°)	1024.6	4.3	B3/2500		
BM	(30°-60°)	1644.1	7.0	B2/2500		
BH	(60°-80°)	827.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	99.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5
2.5°	6172.5	6105.2	6052.2	6005.6	5944.7	5780.4	5616.0	5613.4	5482.7	5280.8	5073.7
5°	7178.2	7087.6	7099.3	6954.3	6809.3	6571.2	6223.0	6204.9	5926.6	5548.7	5164.3
7.5°	7833.1	7834.4	7798.2	7715.4	7558.7	7288.2	6893.5	6804.2	6417.2	5843.8	5267.8
10°	7799.5	7834.4	7895.3	7966.4	8014.3	7881.0	7521.2	7412.5	6909.0	6201.0	5383.0
12.5°	7351.7	7406.0	7492.7	7671.3	7960.0	8180.0	8057.1	7969.0	7478.5	6557.0	5509.9
15°	7072.1	7104.4	7152.3	7272.7	7583.3	8110.1	8428.5	8381.9	8015.6	6959.5	5652.2
17.5°	6986.7	7019.0	7034.5	7108.3	7329.7	7869.4	8574.8	8657.6	8491.9	7329.7	5795.9
20°	7072.1	7087.6	7087.6	7131.6	7305.1	7728.3	8568.3	8735.3	8882.8	7773.6	5930.5
22.5°	7296.0	7302.5	7293.4	7308.9	7438.4	7767.1	8507.5	8714.6	9198.6	8150.2	6035.3
25°	7659.7	7670.1	7610.5	7574.3	7668.8	7938.0	8541.1	8731.4	9445.8	8510.1	6105.2
27.5°	8072.6	8085.5	8013.0	7928.9	7972.9	8148.9	8673.1	8844.0	9630.9	8864.7	6149.2
30°	8578.7	8583.8	8462.2	8361.2	8332.7	8463.5	8898.3	9057.5	9861.3	9282.8	6215.3
32.5°	9096.4	9135.2	8978.6	8836.2	8788.3	8828.5	9231.0	9385.0	10135.7	9731.9	6321.4
35°	9800.5	9807.0	9619.3	9445.8	9287.9	9339.7	9656.8	9768.1	10514.9	10250.9	6471.5
37.5°	10679.3	10738.9	10480.0	10156.4	9962.3	9887.2	10171.9	10293.6	11046.9	10887.7	6698.0
40°	11655.2	11677.2	11455.9	11254.0	10899.3	10681.9	10878.6	11010.7	11703.1	11647.5	6960.8
42.5°	12268.7	12316.6	12333.4	12312.7	12046.1	11681.1	11756.2	11818.3	12479.7	12360.6	7230.0
45°	12475.8	12547.0	12787.7	13297.7	13326.2	12966.4	12791.6	12851.2	13326.2	13080.2	7487.6
47.5°	12132.8	12254.5	12698.4	13744.2	14527.3	14554.5	14027.7	13897.0	14097.6	13676.9	7673.9
50°	11246.2	11272.1	11951.6	13466.0	15090.3	16072.7	15527.8	15284.5	14830.2	14118.3	7802.1
52.5°	9874.3	9904.0	10473.5	12172.9	14743.4	17134.0	17282.9	16848.0	15574.4	14461.3	7886.2
55°	7329.7	7501.8	8128.2	9770.7	13099.7	17034.4	18678.1	18430.9	16473.9	14733.1	8018.2
57.5°	4506.8	4348.9	5091.8	6647.6	9852.3	15665.0	19109.1	19189.4	17464.1	14960.9	8239.5
60°	2073.5	2104.5	2411.3	3428.6	6005.6	12254.5	17998.6	18506.0	18011.6	14953.1	8295.2
62.5°	1428.9	1400.4	1322.8	1505.3	2738.8	7750.3	15202.9	16062.3	16914.0	14488.5	8073.9
65°	1277.5	1249.0	1098.9	1048.4	1258.1	3378.1	11052.1	12136.7	14241.2	13315.8	7522.5
67.5°	1193.3	1154.5	999.2	900.8	898.2	1344.8	6516.8	7822.8	10562.8	11257.9	6518.1
70°	1105.3	1074.3	920.3	811.5	764.9	845.2	2864.3	3749.6	6858.5	8112.7	5077.6
72.5°	1017.3	981.1	842.6	726.1	665.3	632.9	1097.6	1427.6	3875.2	4864.0	3112.8
75°	889.2	871.1	753.3	657.5	591.5	511.3	696.3	794.7	1853.4	2234.0	1562.2
77.5°	777.9	758.5	669.2	574.7	526.8	415.5	494.4	539.7	781.8	906.0	705.4
80°	569.5	588.9	564.3	507.4	469.8	326.2	332.6	370.2	464.7	513.8	431.0
82.5°	361.1	397.4	434.9	390.9	355.9	257.6	230.4	244.6	317.1	336.5	191.6
85°	151.4	154.0	252.4	238.2	203.2	152.7	138.5	146.3	169.6	177.3	89.3
87.5°	58.2	56.9	89.3	82.8	63.4	44.0	44.0	49.2	67.3	62.1	28.5
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°	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5	4967.5
2.5°	4984.4	4892.5	4710.0	4483.5	4317.8	4131.4	3967.0	3849.3	3805.3	3784.5	3745.7
5°	4980.5	4799.3	4421.3	4025.3	3706.9	3380.7	3105.0	2926.4	2910.9	2791.8	2780.2
7.5°	4981.8	4704.8	4102.9	3520.5	3035.1	2701.2	2473.4	2413.9	2342.7	2324.6	2333.6
10°	4985.7	4584.4	3761.3	3020.9	2551.1	2332.3	2246.9	2223.6	2226.2	2234.0	2235.3
12.5°	4990.8	4467.9	3406.6	2641.7	2279.3	2188.7	2179.6	2200.3	2222.3	2239.1	2243.0
15°	4997.3	4334.6	3061.0	2336.2	2143.4	2135.6	2165.4	2200.3	2231.4	2256.0	2259.9
17.5°	4989.5	4179.3	2771.1	2148.5	2068.3	2105.8	2155.0	2199.0	2227.5	2250.8	2253.4
20°	4971.4	4005.9	2491.5	2016.5	2021.7	2082.5	2135.6	2177.0	2208.1	2219.7	2228.8
22.5°	4901.5	3798.8	2248.2	1914.3	1966.0	2050.2	2113.6	2138.2	2103.2	2078.7	2085.1
25°	4782.5	3529.6	2021.7	1831.4	1915.6	2004.9	2069.6	2010.1	1981.6	1971.2	1976.4
27.5°	4633.6	3234.5	1850.9	1744.7	1850.9	1954.4	1936.3	1925.9	1913.0	1896.2	1900.0
30°	4473.1	2945.8	1705.9	1677.4	1781.0	1840.5	1848.3	1865.1	1850.9	1825.0	1835.3
32.5°	4324.3	2674.0	1595.9	1620.5	1731.8	1722.7	1781.0	1800.4	1734.4	1647.7	1651.5
35°	4197.4	2421.6	1513.0	1564.8	1647.7	1651.5	1709.8	1642.5	1571.3	1529.9	1532.5
37.5°	4101.7	2224.9	1458.7	1516.9	1540.2	1589.4	1558.3	1523.4	1514.3	1485.9	1487.2
40°	4044.7	2052.8	1423.7	1479.4	1475.5	1509.2	1409.5	1444.4	1457.4	1448.3	1449.6
42.5°	3987.8	1931.1	1387.5	1427.6	1426.3	1360.3	1338.3	1368.1	1401.7	1405.6	1403.0
45°	3942.5	1836.6	1350.0	1348.7	1374.6	1271.0	1264.5	1282.7	1330.5	1353.8	1352.5
47.5°	3892.0	1757.7	1293.0	1256.8	1264.5	1215.4	1205.0	1212.8	1271.0	1308.5	1318.9
50°	3828.6	1678.7	1221.8	1172.6	1140.3	1163.6	1166.2	1167.5	1225.7	1268.4	1277.5
52.5°	3778.1	1619.2	1140.3	1104.0	1065.2	1117.0	1136.4	1139.0	1173.9	1208.9	1215.4
55°	3807.8	1585.5	1060.0	1034.1	999.2	1069.1	1106.6	1111.8	1119.6	1145.5	1149.3
57.5°	3897.2	1593.3	995.3	961.7	935.8	1012.1	1075.6	1079.5	1074.3	1105.3	1110.5
60°	3924.3	1589.4	947.4	881.4	865.9	951.3	1030.3	1038.0	1036.7	1082.0	1091.1
62.5°	3810.4	1540.2	899.5	814.1	803.8	889.2	966.8	997.9	1004.4	1069.1	1080.7
65°	3542.5	1439.3	836.1	742.9	742.9	823.2	906.0	948.7	966.8	1053.6	1066.5
67.5°	3189.2	1320.2	771.4	682.1	679.5	759.8	841.3	885.3	913.8	1031.6	1039.3
70°	2646.9	1159.7	691.2	616.1	616.1	688.6	762.3	815.4	856.8	990.1	990.1
72.5°	1813.3	964.3	594.1	541.0	542.3	609.6	684.7	744.2	793.4	907.3	909.9
75°	1146.8	753.3	488.0	460.8	465.9	529.4	607.0	669.2	767.5	897.0	900.8
77.5°	609.6	529.4	388.3	381.8	388.3	446.5	533.3	618.7	770.1	777.9	764.9
80°	394.8	375.3	306.8	293.8	296.4	359.8	475.0	587.6	618.7	626.4	598.0
82.5°	214.9	238.2	217.4	204.5	204.5	280.9	405.1	467.2	443.9	368.9	352.1
85°	91.9	111.3	112.6	98.4	94.5	173.4	271.8	255.0	236.9	226.5	223.9
87.5°	25.9	36.2	36.2	27.2	20.7	47.9	54.4	15.5	0.0	1.3	2.6
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)