

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: P454850

Luminaire Tested: **GALN-SA6A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454850
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-SA6A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 23113 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

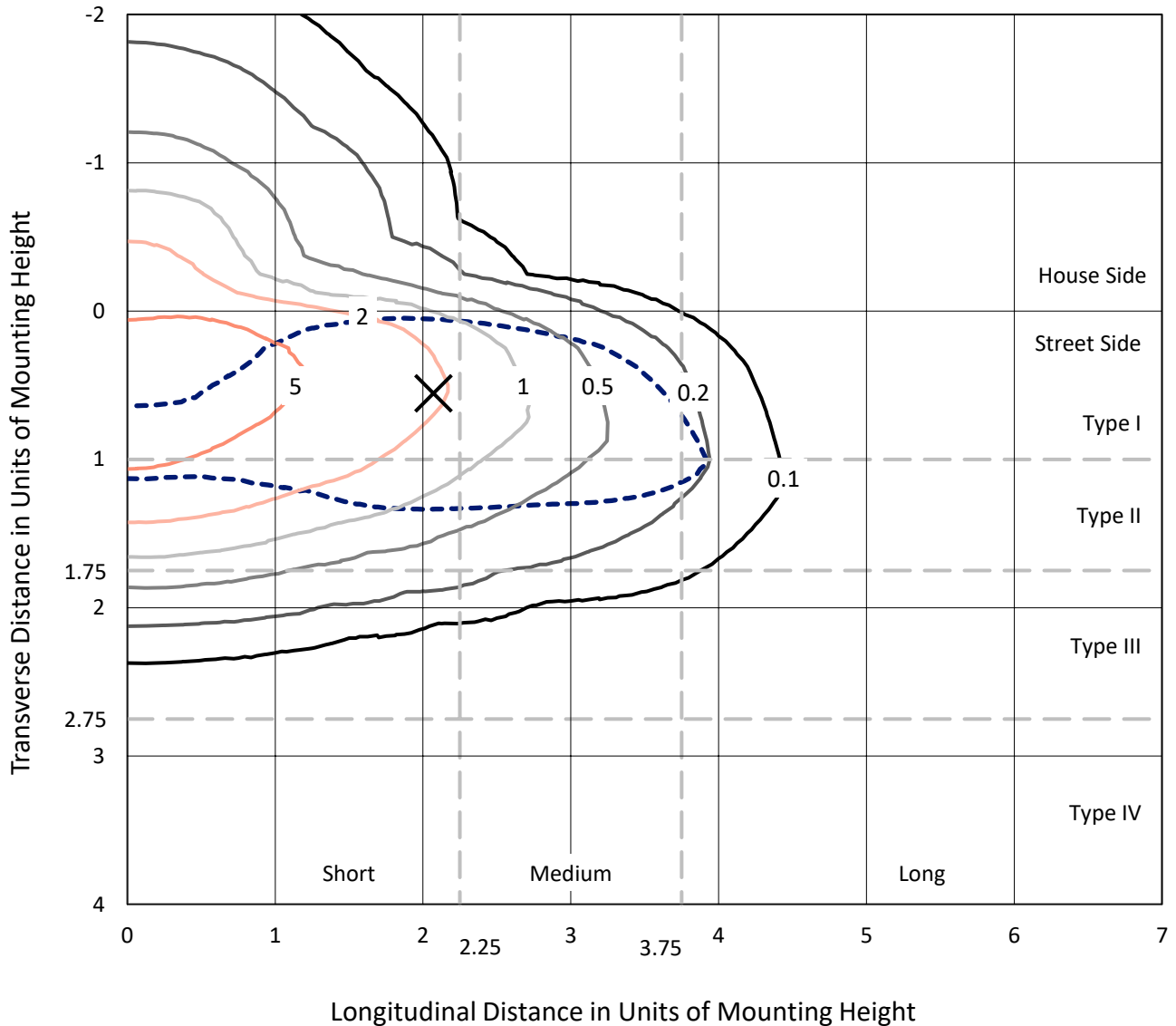
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

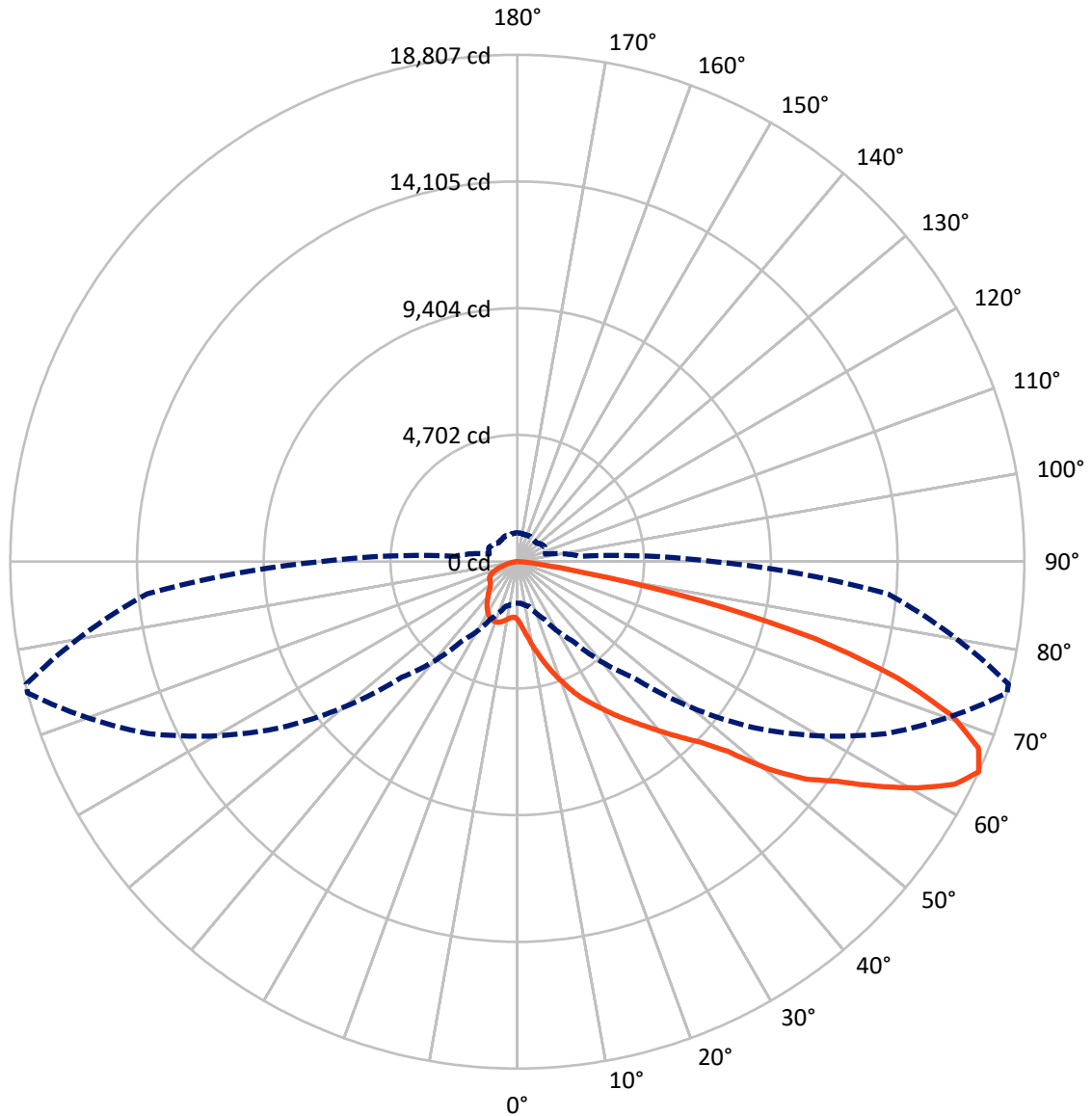
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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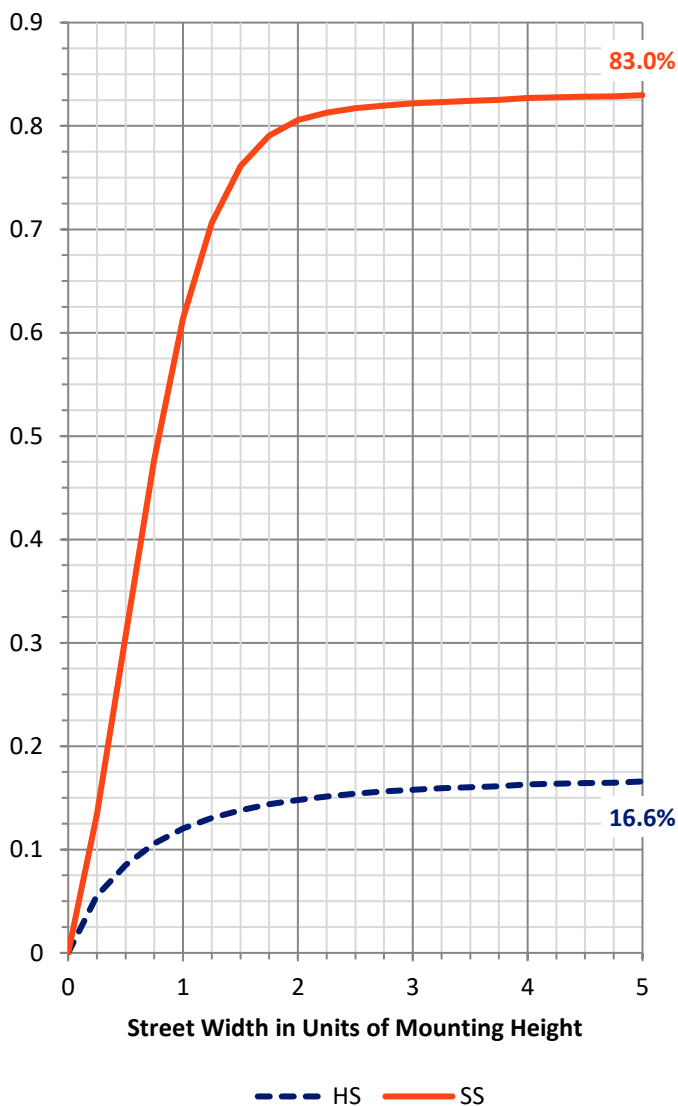
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.6	0.0	3885.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19227.4	0.0	19227.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	23113.0	0.0	23113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	1022.0	4.4
20°-30°	1974.1	8.5
30°-40°	3206.5	13.9
40°-50°	4410.8	19.1
50°-60°	5207.7	22.5
60°-70°	4562.8	19.7
70°-80°	2178.3	9.4
80°-90°	289.9	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°	23113.0	100.0
0°-180°	23113.0	100.0

Coefficient of Utilization

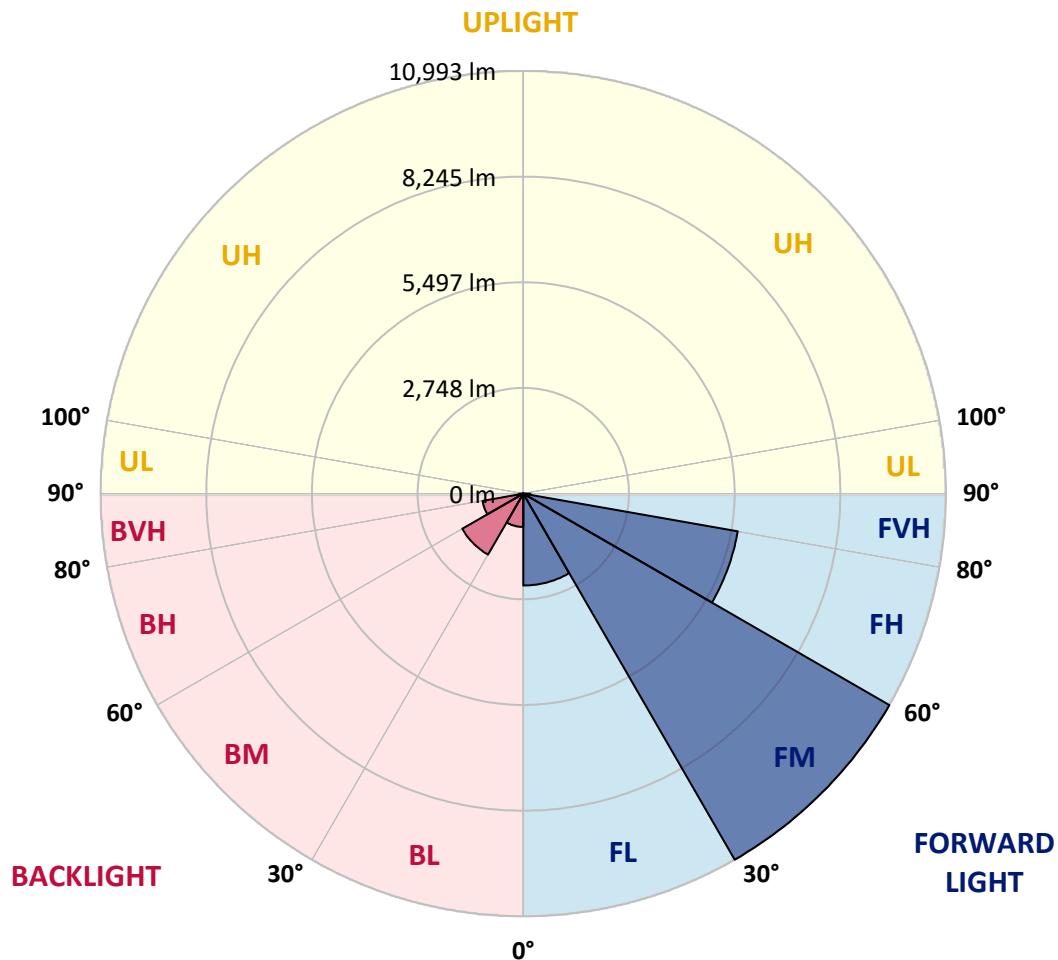


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2389.5	10.3			
FM	(30°-60°)	10993.0	47.6			
FH	(60°-80°)	5663.7	24.5			G3/7500
FVH	(80°-90°)	181.1	0.8			G2/225
BL	(0°-30°)	867.4	3.8	B2/1000		
BM	(30°-60°)	1832.0	7.9	B2/2500		
BH	(60°-80°)	1077.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	108.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5
2.5°	2853.3	2834.5	2814.4	2759.3	2700.3	2633.9	2538.6	2447.1	2325.5	2321.7	2231.5
5°	3644.3	3631.8	3542.8	3491.4	3354.7	3173.0	3018.8	2779.3	2557.4	2531.1	2355.6
7.5°	4371.5	4322.6	4288.7	4195.9	4060.5	3827.4	3529.0	3205.6	2834.5	2799.4	2508.5
10°	4919.3	4914.3	4896.7	4816.5	4714.9	4483.0	4152.1	3688.2	3185.5	3116.6	2694.1
12.5°	5329.2	5333.0	5330.5	5329.2	5256.5	5059.7	4701.2	4212.2	3540.3	3491.4	2908.5
15°	5598.8	5636.4	5651.4	5714.1	5720.4	5588.7	5280.3	4718.7	3940.2	3867.5	3139.1
17.5°	5776.8	5795.6	5865.8	5972.4	6058.9	6035.0	5760.5	5187.6	4348.9	4227.3	3378.6
20°	5947.3	5979.9	6033.8	6179.2	6332.1	6402.4	6209.3	5667.7	4753.8	4676.1	3643.1
22.5°	6302.1	6348.4	6367.3	6441.2	6571.6	6695.7	6607.9	6127.8	5197.6	5092.3	3923.9
25°	6902.6	6951.4	6898.8	6881.2	6923.9	6985.3	6966.5	6561.6	5616.3	5465.9	4189.7
27.5°	7684.8	7691.1	7588.3	7490.5	7385.2	7353.9	7296.2	6946.4	5979.9	5854.5	4456.7
30°	8524.8	8494.7	8324.2	8147.4	7969.4	7793.9	7628.4	7317.5	6384.8	6240.6	4718.7
32.5°	9304.5	9288.2	9098.9	8824.4	8523.5	8358.0	8023.3	7692.4	6818.6	6679.4	4988.2
35°	9888.7	9912.6	9704.4	9404.8	9076.4	8929.7	8507.2	8086.0	7267.4	7115.7	5281.6
37.5°	10303.7	10291.2	10106.9	9847.4	9559.0	9431.2	9072.6	8516.0	7750.0	7604.6	5602.5
40°	10451.6	10444.1	10307.4	10118.1	9935.1	9890.0	9664.3	8979.8	8302.9	8132.4	5988.7
42.5°	10357.6	10373.9	10283.6	10232.2	10198.4	10231.0	10252.3	9587.9	8905.9	8749.2	6407.4
45°	10069.3	10060.5	10047.9	10131.9	10322.5	10536.9	10834.0	10162.0	9561.5	9436.2	6969.0
47.5°	9554.0	9616.7	9648.0	9880.0	10296.2	10803.9	11503.4	10931.8	10513.0	10404.0	7825.2
50°	8833.2	8883.3	9068.8	9481.3	10101.9	10904.2	12157.8	12190.4	12100.2	11895.8	8755.4
52.5°	7707.4	7785.1	8167.5	8923.4	9703.2	10862.8	12554.0	13269.8	13388.9	13236.0	9671.9
55°	6447.5	6556.6	6960.2	7951.9	9154.1	10637.2	12827.3	13895.4	14370.5	14228.8	10554.4
57.5°	5213.9	5329.2	5744.2	6704.5	8196.3	10138.2	13006.5	14592.4	15706.9	15522.6	11652.6
60°	3907.6	4028.0	4384.0	5373.1	6832.4	9162.9	12884.9	15196.7	17042.0	16963.0	12752.1
62.5°	2521.1	2654.0	2963.6	3782.2	5251.5	7830.3	12234.3	15530.1	18197.9	18102.6	13554.4
65°	1535.7	1550.8	1721.3	2348.1	3594.2	6062.6	10746.2	15087.6	18807.1	18778.3	13798.8
67.5°	992.9	1016.7	1094.4	1406.6	2155.0	4211.0	8592.5	13627.1	18451.1	18441.1	13293.6
70°	838.7	846.2	881.3	949.0	1252.4	2553.7	6033.8	11299.1	17098.4	17098.4	12078.8
72.5°	749.7	759.7	772.2	793.6	893.8	1446.7	3600.5	8795.6	14762.9	14860.7	10281.1
75°	680.7	678.2	685.7	689.5	762.2	945.2	1861.7	6505.2	11420.7	11225.1	7445.4
77.5°	582.9	586.7	582.9	599.2	673.2	719.6	945.2	4365.2	6921.4	6668.1	3737.1
80°	478.9	485.2	491.4	501.5	575.4	546.6	567.9	1989.5	2559.9	2506.0	1154.6
82.5°	359.8	368.6	378.6	402.4	452.6	361.0	358.5	850.0	923.9	846.2	425.0
85°	145.4	171.7	259.5	283.3	284.6	198.1	220.6	354.8	377.3	368.6	166.7
87.5°	33.8	40.1	84.0	126.6	116.6	74.0	81.5	115.3	131.6	121.6	56.4
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°	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5
2.5°	2190.1	2146.2	2071.0	2013.3	1972.0	1935.6	1913.1	1899.3	1894.3	1893.0	1894.3
5°	2264.1	2186.4	2067.3	1992.0	1950.7	1926.8	1913.1	1911.8	1913.1	1914.3	1910.6
7.5°	2365.6	2254.0	2098.6	2028.4	1997.1	1979.5	1973.2	1970.7	1972.0	1970.7	1970.7
10°	2501.0	2348.1	2160.0	2087.3	2061.0	2040.9	2030.9	2024.6	2019.6	2014.6	2012.1
12.5°	2650.2	2452.1	2226.5	2156.3	2118.7	2087.3	2064.7	2048.5	2037.2	2025.9	2023.4
15°	2816.9	2562.4	2300.4	2202.6	2148.7	2102.4	2063.5	2037.2	2017.1	2000.8	1999.6
17.5°	2976.1	2666.5	2350.6	2224.0	2145.0	2079.8	2028.4	1992.0	1967.0	1945.7	1943.1
20°	3146.6	2765.5	2373.1	2210.2	2107.4	2028.4	1960.7	1916.8	1888.0	1864.2	1860.4
22.5°	3318.4	2849.5	2370.6	2166.3	2042.2	1949.4	1878.0	1831.6	1797.7	1773.9	1765.1
25°	3482.6	2917.2	2339.3	2096.1	1951.9	1855.4	1782.7	1740.1	1710.0	1681.1	1681.1
27.5°	3630.5	2957.3	2280.4	2010.8	1859.2	1757.6	1699.9	1661.1	1633.5	1614.7	1603.4
30°	3776.0	2976.1	2200.1	1903.0	1761.4	1674.9	1628.5	1605.9	1580.8	1559.5	1557.0
32.5°	3906.4	2972.4	2099.9	1797.7	1668.6	1607.2	1588.4	1570.8	1544.5	1514.4	1506.9
35°	4033.0	2947.3	1980.8	1682.4	1590.9	1567.1	1572.1	1547.0	1499.4	1461.7	1455.5
37.5°	4170.9	2902.2	1850.4	1588.4	1525.7	1548.2	1560.8	1505.6	1427.9	1369.0	1355.2
40°	4330.1	2850.8	1715.0	1494.3	1474.3	1530.7	1530.7	1429.2	1322.6	1286.2	1276.2
42.5°	4516.9	2808.2	1602.2	1415.4	1431.7	1488.1	1481.8	1327.6	1283.7	1264.9	1259.9
45°	4812.7	2793.1	1485.6	1346.4	1396.6	1437.9	1386.5	1292.5	1267.4	1252.4	1247.4
47.5°	5280.3	2810.7	1382.8	1295.0	1356.4	1387.8	1280.0	1268.7	1251.1	1229.8	1227.3
50°	5714.1	2794.4	1310.1	1266.2	1321.3	1327.6	1236.1	1239.9	1229.8	1206.0	1201.0
52.5°	6068.9	2743.0	1263.7	1251.1	1291.3	1222.3	1194.7	1208.5	1204.8	1174.7	1169.6
55°	6458.8	2711.6	1241.1	1251.1	1271.2	1130.8	1155.9	1175.9	1170.9	1149.6	1148.3
57.5°	6931.4	2717.9	1224.8	1254.9	1251.1	1084.4	1117.0	1140.8	1139.6	1133.3	1133.3
60°	7415.3	2720.4	1199.7	1253.6	1227.3	1048.0	1076.9	1110.7	1113.2	1117.0	1117.0
62.5°	7575.8	2611.3	1150.8	1231.1	1174.7	1012.9	1039.3	1085.7	1083.1	1093.2	1094.4
65°	7276.1	2309.2	1078.1	1179.7	1107.0	987.9	1010.4	1053.1	1039.3	1065.6	1070.6
67.5°	6623.0	1910.6	965.3	1086.9	1031.7	961.5	991.6	1007.9	982.9	1034.3	1035.5
70°	5724.1	1491.8	822.4	955.3	946.5	934.0	976.6	951.5	916.4	979.1	966.6
72.5°	4786.4	1139.6	656.9	781.0	832.4	892.6	950.3	878.8	829.9	848.7	826.2
75°	3595.4	842.4	527.8	611.8	693.3	833.7	926.4	791.0	715.8	698.3	693.3
77.5°	1832.8	550.3	394.9	457.6	520.3	753.4	893.8	688.2	593.0	565.4	552.9
80°	654.4	342.2	278.3	315.9	351.0	648.1	781.0	569.2	460.1	455.1	460.1
82.5°	303.4	220.6	186.8	206.9	208.1	432.5	595.5	425.0	349.8	531.5	448.8
85°	130.4	110.3	105.3	102.8	95.3	193.1	334.7	228.2	356.0	159.2	146.7
87.5°	38.9	43.9	38.9	28.8	21.3	21.3	33.8	12.5	8.8	6.3	6.3
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)