

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: P531855

Luminaire Tested: **GALN-SA7A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16740 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

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



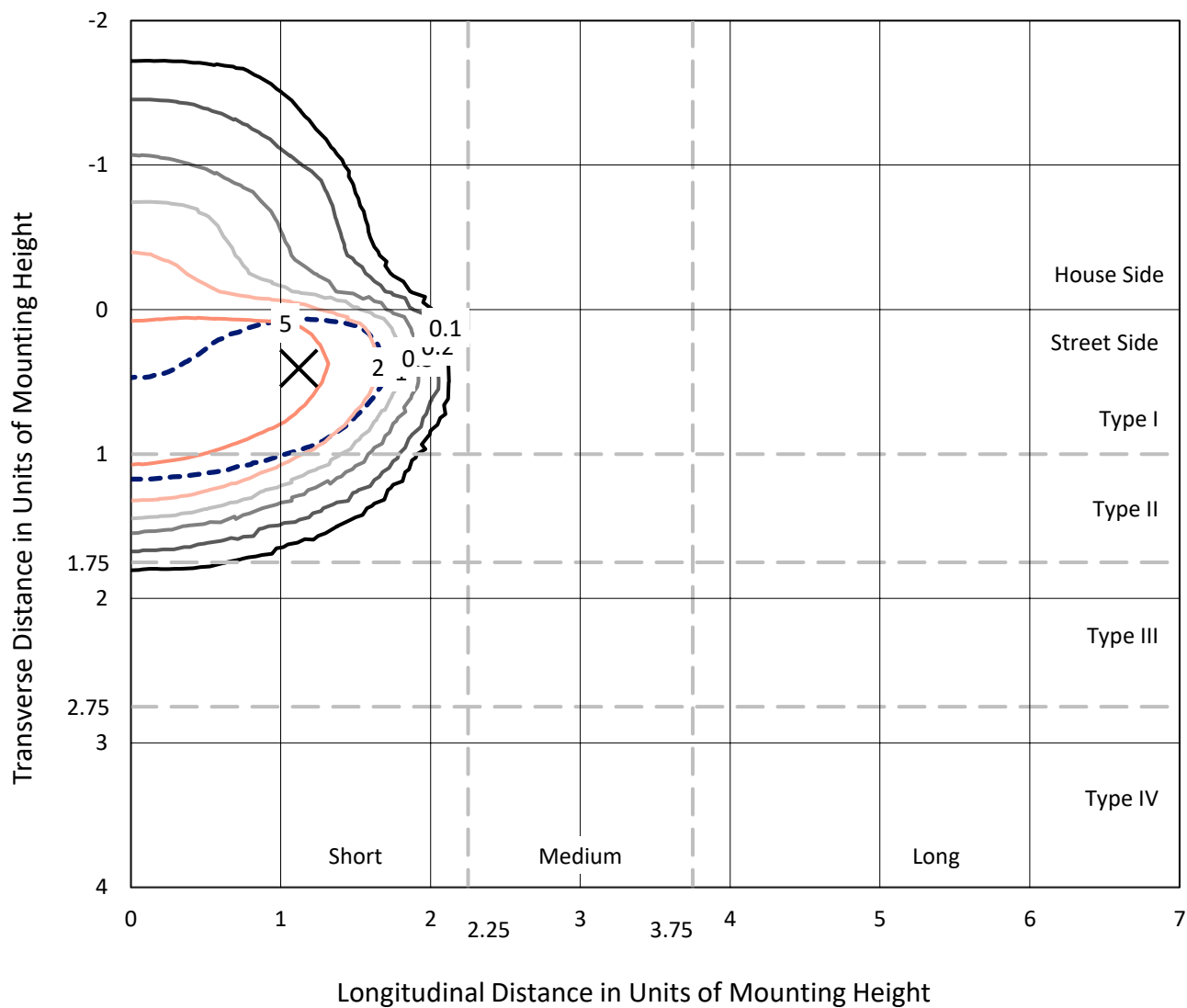
REPORT NUMBER: P531855

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

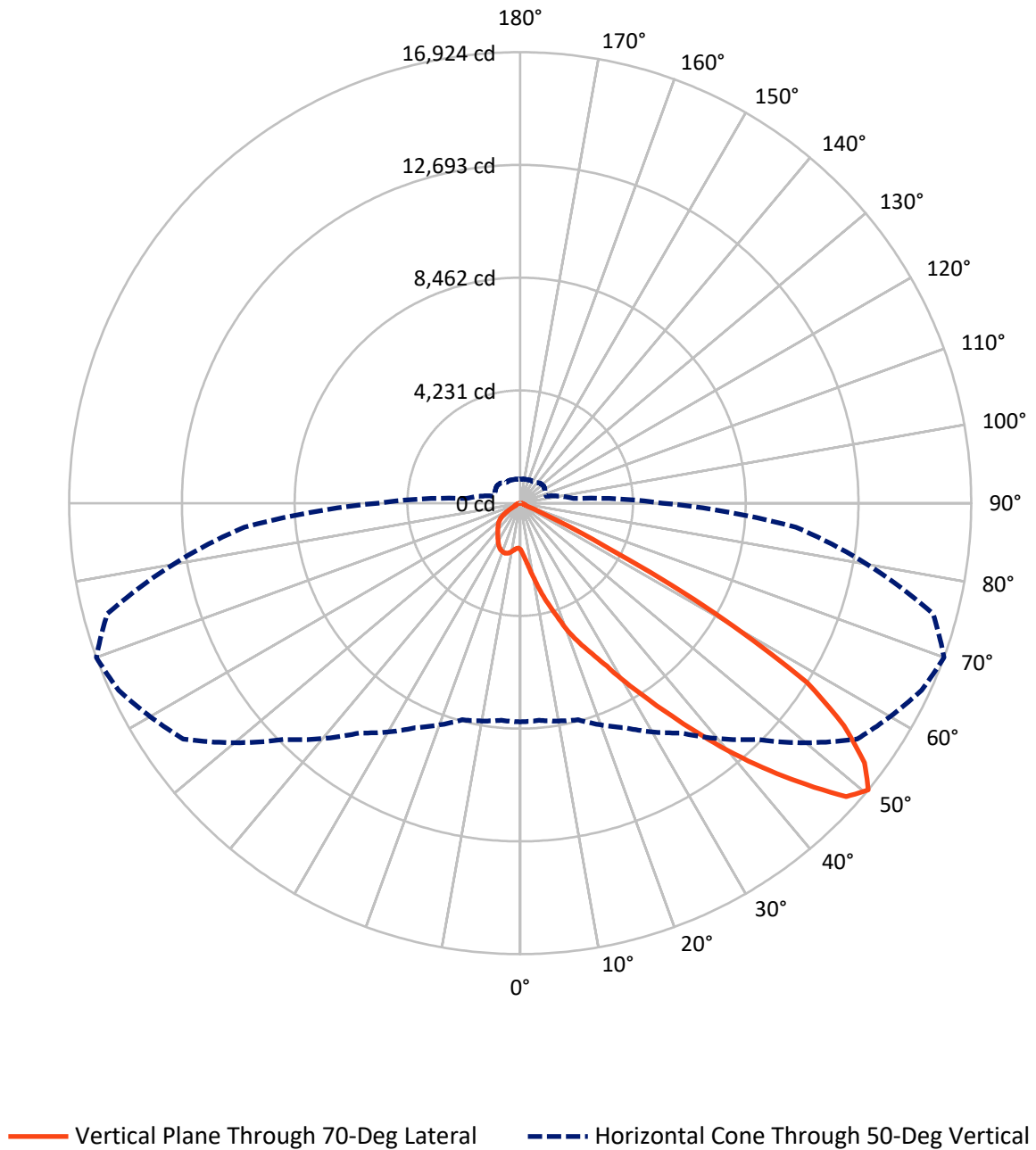


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type I - Short - N/A

REPORT NUMBER: P531855

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531855

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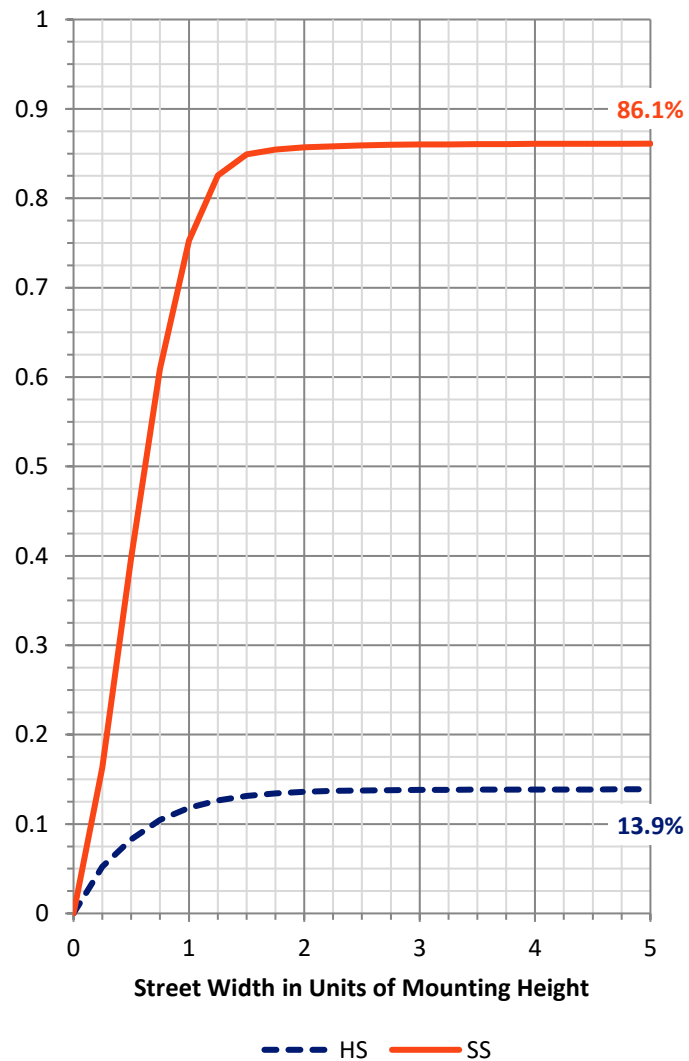
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2337.9	0.0	2337.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14402.2	0.0	14402.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	16740.0	0.0	16740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.3
10°-20°	975.3	5.8
20°-30°	2046.1	12.2
30°-40°	3526.7	21.1
40°-50°	5154.3	30.8
50°-60°	4014.3	24.0
60°-70°	680.1	4.1
70°-80°	93.4	0.6
80°-90°	24.2	0.1
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°	16740.0	100.0
0°-180°	16740.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531855

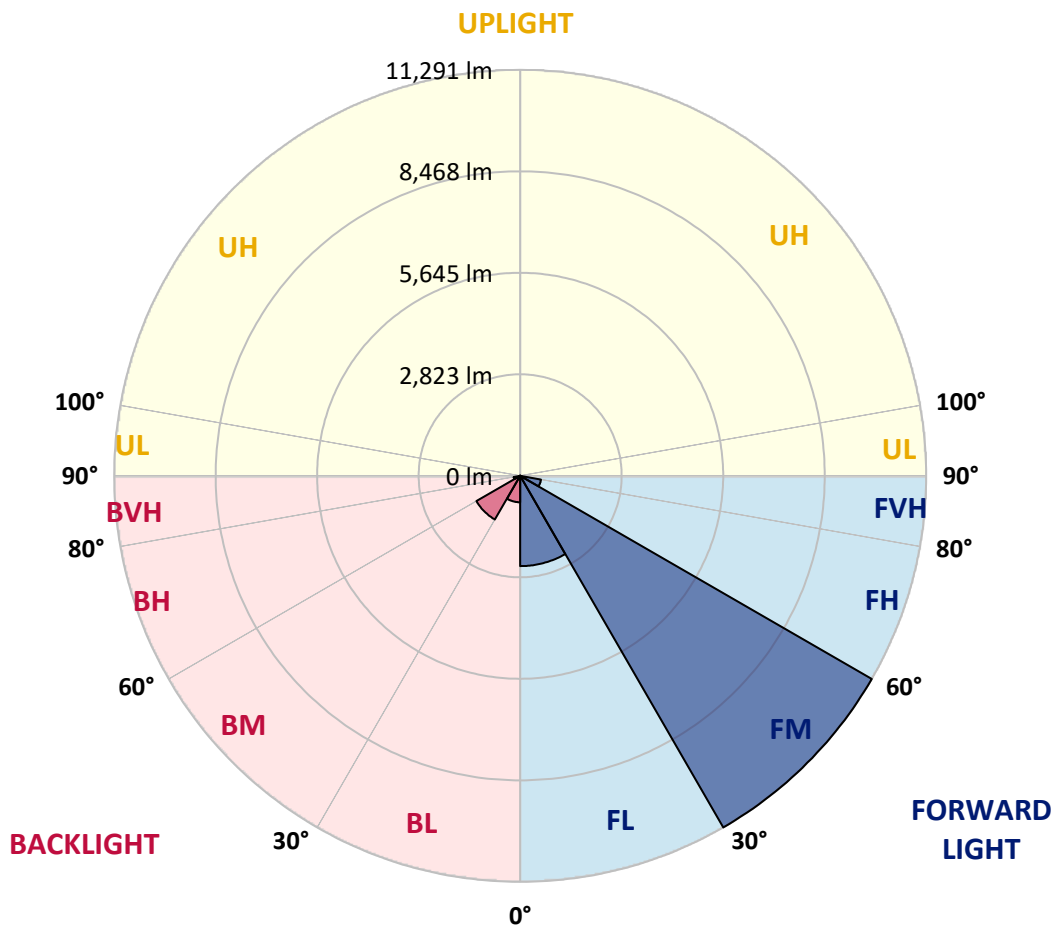
CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2511.2	15.0			
FM	(30°-60°)	11290.8	67.4			
FH	(60°-80°)	588.9	3.5			G0/660
FVH	(80°-90°)	11.2	0.1			G1/100
BL	(0°-30°)	735.7	4.4	B2/1000		
BM	(30°-60°)	1404.5	8.4	B2/2500		
BH	(60°-80°)	184.7	1.1	B1/500		G1/500
BVH	(80°-90°)	13.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



REPORT NUMBER: P531855

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9
2.5°	2270.6	2254.1	2218.3	2152.3	2124.8	2058.7	2020.2	1945.9	1899.1	1846.8	1789.0
5°	3198.1	3112.8	3060.5	2986.2	2768.8	2633.9	2411.0	2221.1	2133.0	2036.7	1904.6
7.5°	4155.9	4100.9	4029.3	3869.7	3721.1	3440.3	3057.8	2639.4	2460.5	2295.4	2033.9
10°	4948.6	4794.5	4786.2	4667.9	4505.5	4169.7	3710.1	3189.9	2870.6	2628.4	2218.3
12.5°	5501.8	5361.4	5424.7	5411.0	5259.6	4951.3	4420.2	3732.1	3399.1	3022.0	2408.2
15°	6005.5	5947.7	5928.4	5911.9	5851.3	5622.9	5146.8	4392.6	3911.0	3456.9	2622.9
17.5°	6498.1	6349.5	6421.1	6434.8	6429.3	6222.9	5777.0	5020.2	4453.2	3916.5	2848.6
20°	6935.7	6949.5	6853.2	6833.9	6817.4	6809.1	6374.3	5642.2	5119.2	4398.1	3143.1
22.5°	7497.2	7400.9	7486.2	7431.1	7323.8	7257.8	6924.7	6192.6	5697.2	4978.9	3443.1
25°	8160.5	8237.6	8036.6	8014.6	7896.3	7667.8	7367.8	6809.1	6253.2	5518.3	3767.9
27.5°	8977.9	8843.1	8790.8	8669.7	8455.0	8358.7	8006.4	7444.9	6924.7	6085.3	4081.6
30°	9679.8	9644.0	9382.5	9239.4	9052.2	9049.5	8556.8	8306.4	7800.0	6974.3	4513.7
32.5°	10252.2	10095.4	9999.0	9899.9	9748.6	9789.8	9374.3	9242.1	8733.0	7800.0	5022.9
35°	10634.8	10522.0	10464.2	10312.8	10268.7	10453.1	10279.8	10224.7	9806.4	8961.4	5620.1
37.5°	10755.9	10791.7	10780.7	10590.8	10684.3	11182.5	11405.4	11262.3	11042.1	10186.2	6266.9
40°	10863.2	10888.0	10833.0	11055.9	11322.9	11889.8	12696.3	12459.6	12377.0	11427.5	7166.9
42.5°	10923.8	10904.5	10904.5	11289.8	11694.4	12833.9	13943.0	13786.2	13722.9	12748.5	8207.3
45°	10662.3	10475.2	10676.1	11199.0	12013.7	13299.0	14939.4	15156.8	15066.0	14320.1	9423.8
47.5°	9685.3	9800.9	9913.7	10612.8	11625.6	13155.9	15550.4	16290.7	16458.6	15641.2	10222.0
50°	8207.3	8182.5	8416.5	9297.2	10527.5	12539.4	15432.0	16618.2	16923.7	16037.5	10389.8
52.5°	5969.7	6151.3	6404.5	7279.8	8738.5	10943.1	13904.5	15773.3	16180.6	15550.4	10279.8
55°	3476.1	3275.2	3844.9	4585.3	5961.4	8254.1	11755.0	13981.6	14735.7	14664.1	9723.8
57.5°	1392.7	1348.6	1544.0	2080.7	3110.1	5116.5	8548.6	11488.0	12696.3	13431.1	8545.8
60°	611.0	597.2	701.8	847.7	1271.6	2358.7	4676.1	7144.9	8405.5	9385.3	5881.6
62.5°	440.4	434.9	487.2	539.4	671.6	1026.6	1965.1	2878.9	3589.0	4334.8	2633.9
65°	355.0	368.8	404.6	432.1	495.4	569.7	693.6	800.9	982.6	1018.3	580.7
67.5°	289.0	300.0	333.0	363.3	374.3	308.3	319.3	280.7	280.7	250.5	200.9
70°	211.9	214.7	253.2	289.0	231.2	123.9	217.4	217.4	195.4	187.2	170.6
72.5°	156.9	159.6	189.9	178.9	90.8	77.1	159.6	176.1	159.6	151.4	137.6
75°	115.6	118.3	99.1	41.3	38.5	49.5	93.6	121.1	115.6	112.8	104.6
77.5°	22.0	16.5	13.8	19.3	27.5	41.3	60.6	74.3	77.1	82.6	77.1
80°	2.8	2.8	8.3	16.5	30.3	44.0	63.3	71.6	74.3	77.1	71.6
82.5°	0.0	2.8	8.3	16.5	30.3	41.3	55.0	63.3	68.8	71.6	68.8
85°	0.0	2.8	5.5	13.8	24.8	30.3	27.5	19.3	16.5	19.3	13.8
87.5°	0.0	0.0	2.8	2.8	5.5	5.5	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P531855

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9	1733.9
2.5°	1756.0	1744.9	1706.4	1665.1	1629.3	1645.9	1629.3	1615.6	1621.1	1615.6	1610.1
5°	1852.3	1802.7	1720.2	1684.4	1654.1	1651.4	1643.1	1640.4	1643.1	1643.1	1618.3
7.5°	1943.1	1863.3	1775.2	1736.7	1700.9	1703.7	1684.4	1684.4	1681.6	1667.9	1662.4
10°	2080.7	1973.4	1860.5	1791.7	1747.7	1739.4	1720.2	1700.9	1700.9	1700.9	1673.4
12.5°	2232.1	2097.2	1943.1	1863.3	1811.0	1769.7	1739.4	1733.9	1703.7	1698.2	1684.4
15°	2364.2	2193.6	1998.2	1888.1	1822.0	1767.0	1720.2	1689.9	1676.1	1667.9	1656.9
17.5°	2493.6	2276.1	2028.4	1888.1	1816.5	1753.2	1703.7	1676.1	1643.1	1648.6	1626.6
20°	2667.0	2364.2	2036.7	1852.3	1764.2	1703.7	1637.6	1623.8	1604.6	1588.1	1593.6
22.5°	2834.8	2427.5	2011.9	1808.2	1681.6	1610.1	1577.1	1560.5	1552.3	1538.5	1519.3
25°	2986.2	2496.3	1973.4	1728.4	1593.6	1541.3	1511.0	1508.2	1489.0	1489.0	1453.2
27.5°	3140.3	2521.1	1907.3	1634.9	1516.5	1486.2	1472.5	1467.0	1458.7	1439.4	1414.7
30°	3316.5	2529.3	1811.0	1538.5	1447.7	1414.7	1433.9	1447.7	1411.9	1376.1	1387.1
32.5°	3462.4	2510.1	1695.4	1447.7	1398.2	1381.6	1420.2	1433.9	1392.7	1354.1	1334.9
35°	3638.5	2463.3	1582.6	1376.1	1348.6	1381.6	1414.7	1414.7	1332.1	1285.3	1274.3
37.5°	3905.5	2411.0	1478.0	1315.6	1296.3	1365.1	1409.2	1378.9	1249.5	1191.7	1178.0
40°	4191.7	2378.0	1376.1	1255.0	1268.8	1337.6	1362.4	1268.8	1136.7	1100.9	1089.9
42.5°	4607.3	2311.9	1285.3	1202.7	1244.0	1299.1	1299.1	1131.2	1081.6	1062.4	1059.6
45°	5124.7	2265.1	1205.5	1158.7	1208.2	1222.0	1178.0	1059.6	1023.8	1018.3	1021.1
47.5°	5377.9	2174.3	1122.9	1106.4	1142.2	1144.9	1029.4	1001.8	971.6	963.3	957.8
50°	5339.4	2011.9	1015.6	1037.6	1087.1	1059.6	938.5	944.0	916.5	913.8	900.0
52.5°	5069.7	1756.0	908.3	960.5	1015.6	935.8	864.2	858.7	858.7	822.9	809.2
55°	4494.5	1414.7	778.9	844.9	911.0	787.2	767.9	762.4	748.6	715.6	707.3
57.5°	3558.7	1037.6	586.2	657.8	773.4	668.8	666.1	641.3	605.5	580.7	580.7
60°	2116.5	597.2	368.8	401.8	511.9	542.2	602.7	591.7	531.2	492.7	481.6
62.5°	966.0	308.3	233.9	239.4	275.2	352.3	473.4	547.7	462.4	396.3	390.8
65°	324.8	228.4	192.7	184.4	189.9	211.9	283.5	388.1	368.8	305.5	294.5
67.5°	198.2	203.7	181.7	167.9	167.9	165.1	162.4	176.1	217.4	211.9	214.7
70°	170.6	187.2	167.9	151.4	145.9	137.6	115.6	96.3	82.6	96.3	101.8
72.5°	137.6	148.6	143.1	129.4	115.6	104.6	82.6	63.3	46.8	41.3	41.3
75°	101.8	110.1	115.6	99.1	88.1	74.3	60.6	41.3	24.8	16.5	16.5
77.5°	74.3	82.6	85.3	77.1	66.1	52.3	38.5	27.5	13.8	5.5	5.5
80°	63.3	74.3	82.6	77.1	68.8	49.5	35.8	19.3	11.0	2.8	2.8
82.5°	60.6	74.3	82.6	74.3	66.1	46.8	35.8	22.0	8.3	2.8	2.8
85°	13.8	19.3	24.8	30.3	35.8	35.8	27.5	16.5	8.3	2.8	2.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	2.8	2.8	0.0
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)