

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: P458968

Luminaire Tested: **GALN-SA4D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458968
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-SA4D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 29053 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

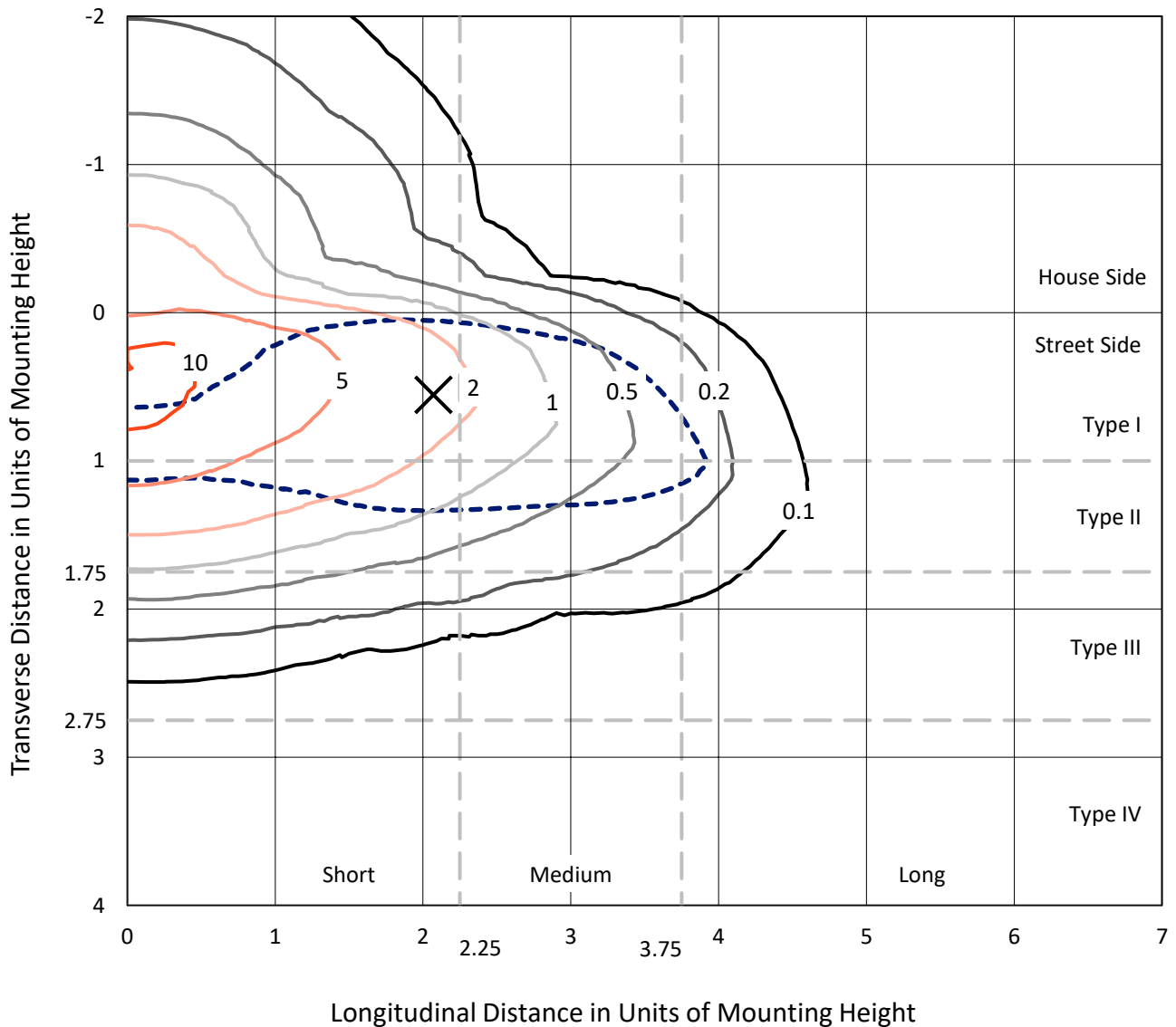
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458968
 CATALOG NUMBER: GALN-SA4D-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

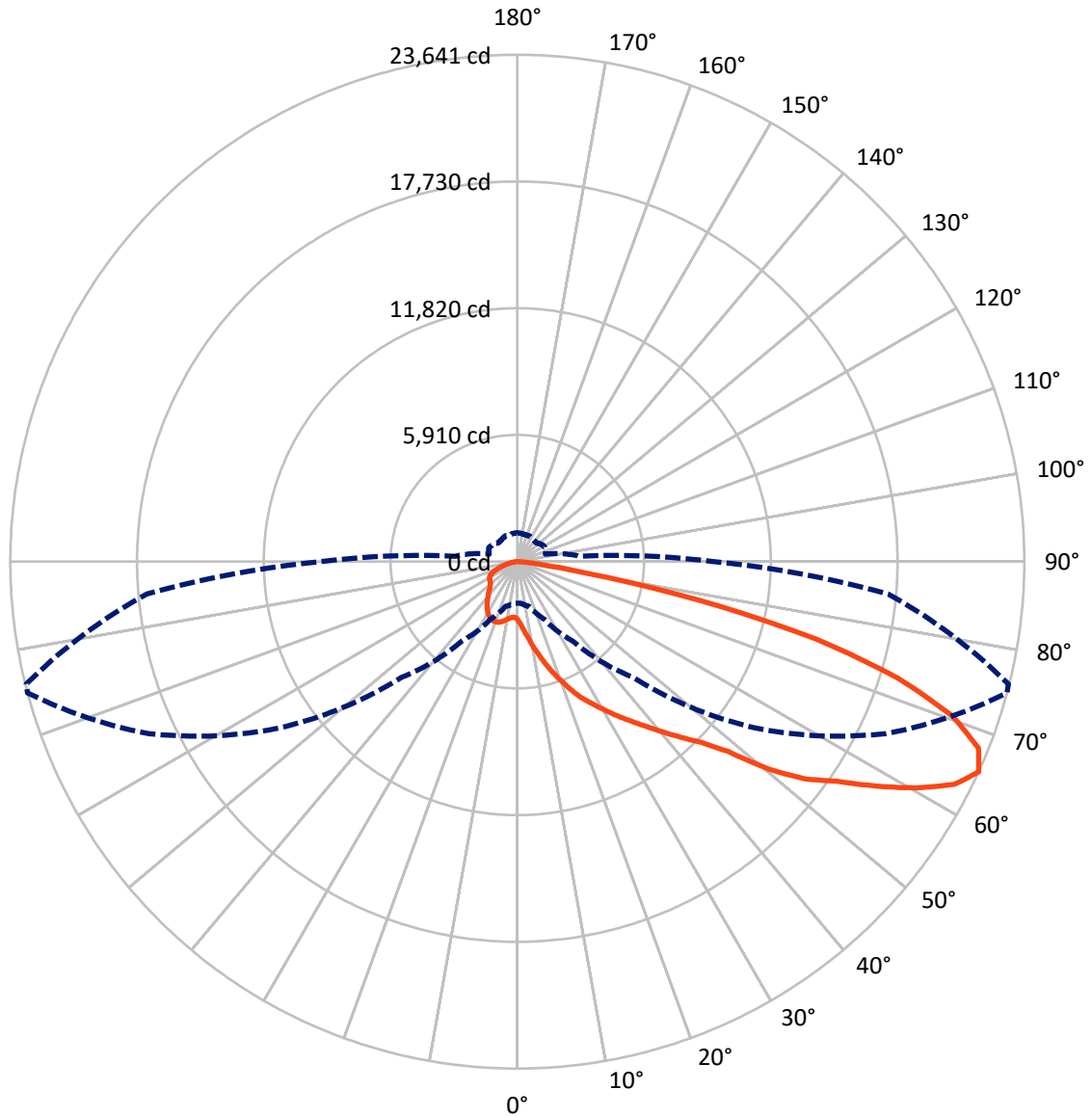
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P458968
CATALOG NUMBER: GALN-SA4D-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458968

CATALOG NUMBER: GALN-SA4D-735-U-T2R

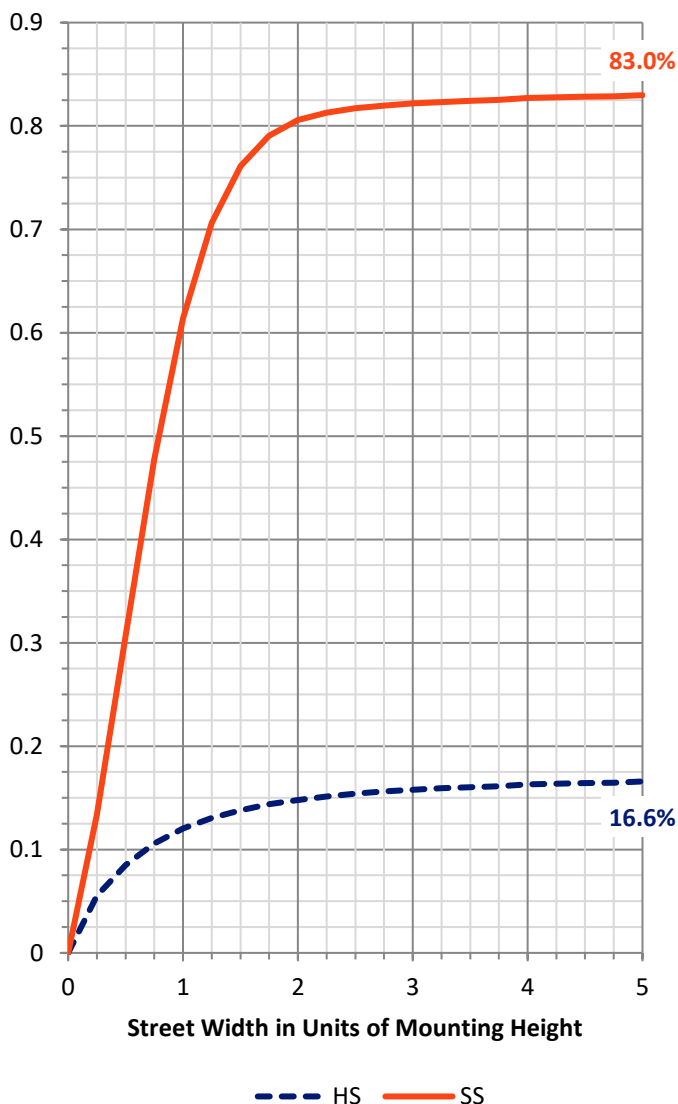
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4884.2	0.0	4884.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24168.8	0.0	24168.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	29053.0	0.0	29053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	1.1
10°-20°	1284.6	4.4
20°-30°	2481.4	8.5
30°-40°	4030.6	13.9
40°-50°	5544.4	19.1
50°-60°	6546.1	22.5
60°-70°	5735.4	19.7
70°-80°	2738.1	9.4
80°-90°	364.3	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°	29053.0	100.0
0°-180°	29053.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458968

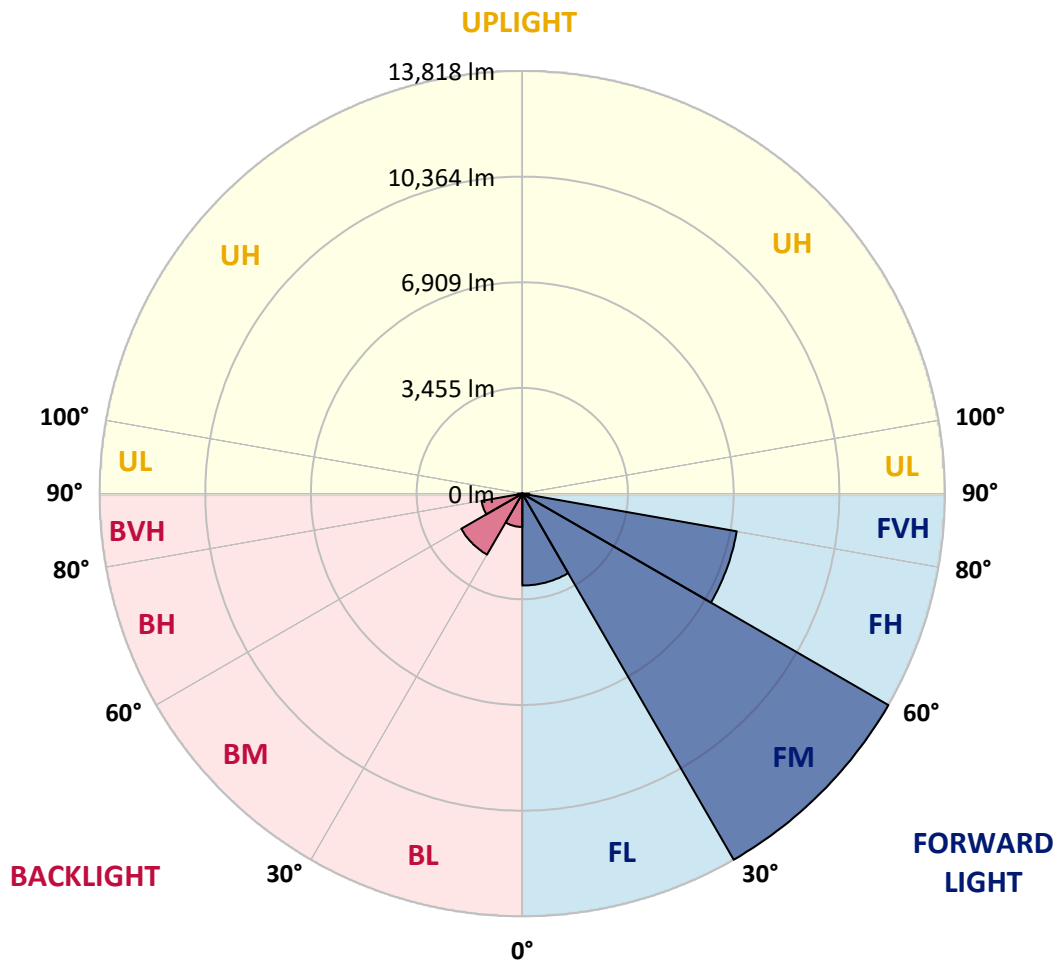
CATALOG NUMBER: GALN-SA4D-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3003.6	10.3			
FM	(30°-60°)	13818.2	47.6			
FH	(60°-80°)	7119.3	24.5			G3/7500
FVH	(80°-90°)	227.7	0.8			G3/500
BL	(0°-30°)	1090.4	3.8	B3/2500		
BM	(30°-60°)	2302.9	7.9	B2/2500		
BH	(60°-80°)	1354.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	136.7	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





REPORT NUMBER: P458968

CATALOG NUMBER: GALN-SA4D-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4
2.5°	3586.6	3562.9	3537.7	3468.4	3394.3	3310.8	3191.0	3076.0	2923.2	2918.4	2805.0
5°	4580.9	4565.2	4453.3	4388.7	4216.9	3988.4	3794.6	3493.6	3214.7	3181.6	2961.0
7.5°	5494.9	5433.4	5390.9	5274.3	5104.1	4811.0	4436.0	4029.4	3562.9	3518.8	3153.2
10°	6183.5	6177.2	6155.2	6054.3	5926.7	5635.2	5219.1	4636.1	4004.2	3917.5	3386.5
12.5°	6698.8	6703.6	6700.4	6698.8	6607.4	6360.0	5909.3	5294.8	4450.1	4388.7	3655.9
15°	7037.6	7084.9	7103.8	7182.6	7190.5	7025.0	6637.4	5931.4	4952.8	4861.4	3945.9
17.5°	7261.4	7285.0	7373.3	7507.2	7616.0	7586.0	7240.9	6520.8	5466.5	5313.7	4246.9
20°	7475.7	7516.7	7584.5	7767.2	7959.5	8047.7	7805.1	7124.3	5975.5	5877.8	4579.4
22.5°	7921.7	7980.0	8003.6	8096.6	8260.5	8416.5	8306.2	7702.6	6533.4	6401.0	4932.3
25°	8676.5	8738.0	8671.8	8649.7	8703.3	8780.5	8756.9	8247.9	7059.7	6870.6	5266.4
27.5°	9659.8	9667.7	9538.5	9415.6	9283.2	9243.8	9171.3	8731.7	7516.7	7359.1	5602.1
30°	10715.6	10677.8	10463.5	10241.3	10017.5	9796.9	9588.9	9198.1	8025.7	7844.5	5931.4
32.5°	11695.8	11675.3	11437.3	11092.2	10714.0	10506.0	10085.3	9669.3	8570.9	8396.0	6270.2
35°	12430.1	12460.1	12198.5	11821.8	11409.0	11224.6	10693.6	10164.1	9135.1	8944.4	6639.0
37.5°	12951.7	12936.0	12704.3	12378.1	12015.7	11854.9	11404.3	10704.6	9741.8	9559.0	7042.4
40°	13137.7	13128.2	12956.4	12718.5	12488.4	12431.7	12148.0	11287.6	10436.7	10222.4	7527.7
42.5°	13019.5	13040.0	12926.5	12861.9	12819.3	12860.3	12887.1	12051.9	11194.7	10997.7	8054.0
45°	12657.0	12646.0	12630.2	12735.8	12975.4	13244.8	13618.3	12773.6	12018.8	11861.2	8760.0
47.5°	12009.4	12088.2	12127.6	12419.1	12942.3	13580.5	14459.8	13741.2	13214.9	13077.8	9836.3
50°	11103.3	11166.3	11399.5	11918.0	12698.0	13706.5	15282.4	15323.3	15209.9	14953.0	11005.6
52.5°	9688.2	9785.9	10266.5	11216.7	12196.9	13654.5	15780.3	16680.1	16829.8	16637.6	12157.5
55°	8104.5	8241.6	8749.0	9995.5	11506.7	13370.9	16123.9	17466.5	18063.7	17885.6	13266.9
57.5°	6553.9	6698.8	7220.4	8427.5	10302.8	12743.7	16349.2	18342.6	19743.5	19511.9	14647.3
60°	4911.9	5063.1	5510.7	6754.0	8588.3	11517.7	16196.3	19102.2	21421.8	21322.5	16029.3
62.5°	3169.0	3336.0	3725.3	4754.3	6601.1	9842.6	15378.5	19521.3	22874.7	22754.9	17037.8
65°	1930.4	1949.3	2163.6	2951.5	4517.9	7620.7	13508.0	18965.1	23640.5	23604.3	17345.1
67.5°	1248.1	1278.0	1375.7	1768.1	2708.8	5293.2	10800.7	17129.2	23193.0	23180.4	16710.1
70°	1054.2	1063.7	1107.8	1192.9	1574.3	3210.0	7584.5	14202.9	21492.7	21492.7	15183.1
72.5°	942.3	955.0	970.7	997.5	1123.6	1818.5	4525.8	11056.0	18556.9	18679.8	12923.4
75°	855.7	852.5	862.0	866.7	958.1	1188.2	2340.1	8177.0	14355.8	14109.9	9358.8
77.5°	732.8	737.5	732.8	753.2	846.2	904.5	1188.2	5487.0	8700.1	8381.8	4697.5
80°	602.0	609.8	617.7	630.3	723.3	687.1	713.8	2500.8	3217.8	3150.1	1451.3
82.5°	452.3	463.3	475.9	505.8	568.9	453.8	450.7	1068.4	1161.4	1063.7	534.2
85°	182.8	215.9	326.2	356.1	357.7	249.0	277.3	446.0	474.3	463.3	209.6
87.5°	42.5	50.4	105.6	159.2	146.6	93.0	102.4	145.0	165.5	152.9	70.9
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: P458968

CATALOG NUMBER: GALN-SA4D-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4
2.5°	2753.0	2697.8	2603.3	2530.8	2478.8	2433.1	2404.7	2387.4	2381.1	2379.5	2381.1
5°	2845.9	2748.2	2598.5	2504.0	2452.0	2422.0	2404.7	2403.1	2404.7	2406.3	2401.6
7.5°	2973.6	2833.3	2637.9	2549.7	2510.3	2488.2	2480.4	2477.2	2478.8	2477.2	2477.2
10°	3143.8	2951.5	2715.1	2623.8	2590.7	2565.4	2552.8	2545.0	2538.7	2532.4	2529.2
12.5°	3331.3	3082.3	2798.7	2710.4	2663.1	2623.8	2595.4	2574.9	2560.7	2546.5	2543.4
15°	3540.9	3221.0	2891.6	2768.7	2701.0	2642.7	2593.8	2560.7	2535.5	2515.0	2513.4
17.5°	3741.0	3351.8	2954.7	2795.5	2696.2	2614.3	2549.7	2504.0	2472.5	2445.7	2442.5
20°	3955.3	3476.3	2983.0	2778.2	2649.0	2549.7	2464.6	2409.4	2373.2	2343.3	2338.5
22.5°	4171.2	3581.9	2979.9	2723.0	2567.0	2450.4	2360.6	2302.3	2259.7	2229.8	2218.8
25°	4377.6	3666.9	2940.5	2634.8	2453.6	2332.2	2240.8	2187.2	2149.4	2113.2	2113.2
27.5°	4563.6	3717.4	2866.4	2527.6	2337.0	2209.3	2136.8	2088.0	2053.3	2029.7	2015.5
30°	4746.4	3741.0	2765.6	2392.1	2214.0	2105.3	2047.0	2018.6	1987.1	1960.3	1957.2
32.5°	4910.3	3736.3	2639.5	2259.7	2097.4	2020.2	1996.6	1974.5	1941.4	1903.6	1894.1
35°	5069.4	3704.8	2489.8	2114.8	1999.7	1969.8	1976.1	1944.6	1884.7	1837.4	1829.5
37.5°	5242.8	3648.0	2325.9	1996.6	1917.8	1946.1	1961.9	1892.6	1794.9	1720.8	1703.5
40°	5442.9	3583.4	2155.7	1878.4	1853.2	1924.1	1924.1	1796.4	1662.5	1616.8	1604.2
42.5°	5677.7	3529.9	2013.9	1779.1	1799.6	1870.5	1862.6	1668.8	1613.6	1590.0	1583.7
45°	6049.6	3510.9	1867.4	1692.4	1755.5	1807.5	1742.9	1624.7	1593.2	1574.3	1567.9
47.5°	6637.4	3533.0	1738.1	1627.8	1705.0	1744.4	1608.9	1594.7	1572.7	1545.9	1542.7
50°	7182.6	3512.5	1646.7	1591.6	1660.9	1668.8	1553.8	1558.5	1545.9	1515.9	1509.6
52.5°	7628.6	3447.9	1588.4	1572.7	1623.1	1536.4	1501.8	1519.1	1514.4	1476.5	1470.2
55°	8118.7	3408.5	1560.1	1572.7	1597.9	1421.4	1452.9	1478.1	1471.8	1445.0	1443.5
57.5°	8712.7	3416.4	1539.6	1577.4	1572.7	1363.1	1404.1	1434.0	1432.4	1424.5	1424.5
60°	9321.0	3419.5	1508.1	1575.8	1542.7	1317.4	1353.6	1396.2	1399.3	1404.1	1404.1
62.5°	9522.7	3282.4	1446.6	1547.5	1476.5	1273.3	1306.4	1364.7	1361.5	1374.1	1375.7
65°	9146.1	2902.7	1355.2	1482.9	1391.5	1241.8	1270.1	1323.7	1306.4	1339.5	1345.8
67.5°	8325.1	2401.6	1213.4	1366.2	1296.9	1208.7	1246.5	1267.0	1235.4	1300.1	1301.6
70°	7195.2	1875.2	1033.7	1200.8	1189.7	1174.0	1227.6	1196.1	1151.9	1230.7	1215.0
72.5°	6016.5	1432.4	825.7	981.7	1046.3	1122.0	1194.5	1104.7	1043.2	1066.8	1038.5
75°	4519.5	1059.0	663.4	769.0	871.4	1047.9	1164.5	994.3	899.8	877.7	871.4
77.5°	2303.9	691.8	496.4	575.2	654.0	947.1	1123.6	865.1	745.4	710.7	694.9
80°	822.6	430.2	349.8	397.1	441.2	814.7	981.7	715.4	578.3	572.0	578.3
82.5°	381.3	277.3	234.8	260.0	261.6	543.7	748.5	534.2	439.7	668.2	564.1
85°	163.9	138.7	132.4	129.2	119.8	242.7	420.7	286.8	447.5	200.1	184.4
87.5°	48.9	55.2	48.9	36.2	26.8	26.8	42.5	15.8	11.0	7.9	7.9
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)