

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: P648585

Luminaire Tested: **GALN-SA8B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648585
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-SA8B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36329.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

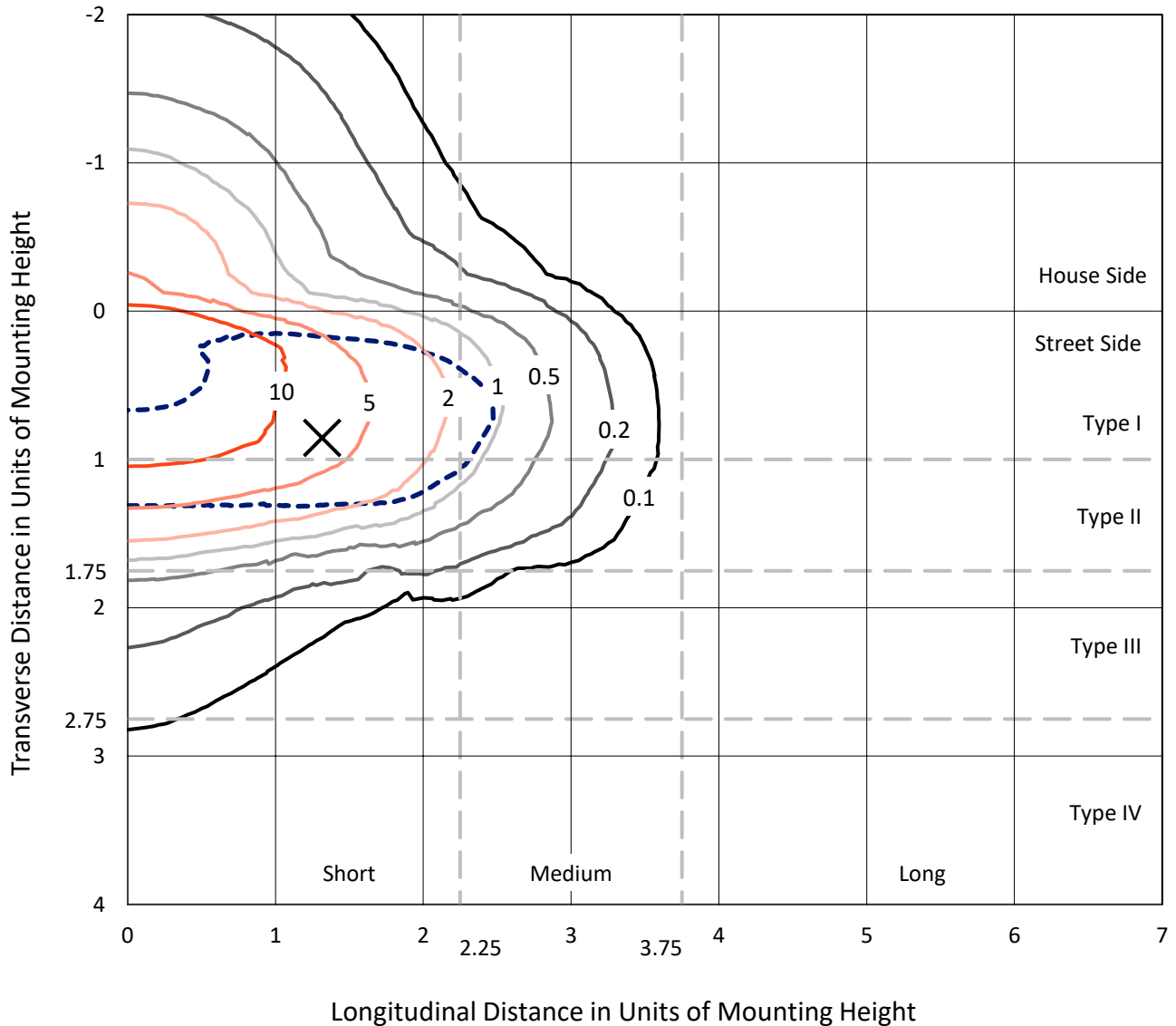
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648585
 CATALOG NUMBER: GALN-SA8B-835-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

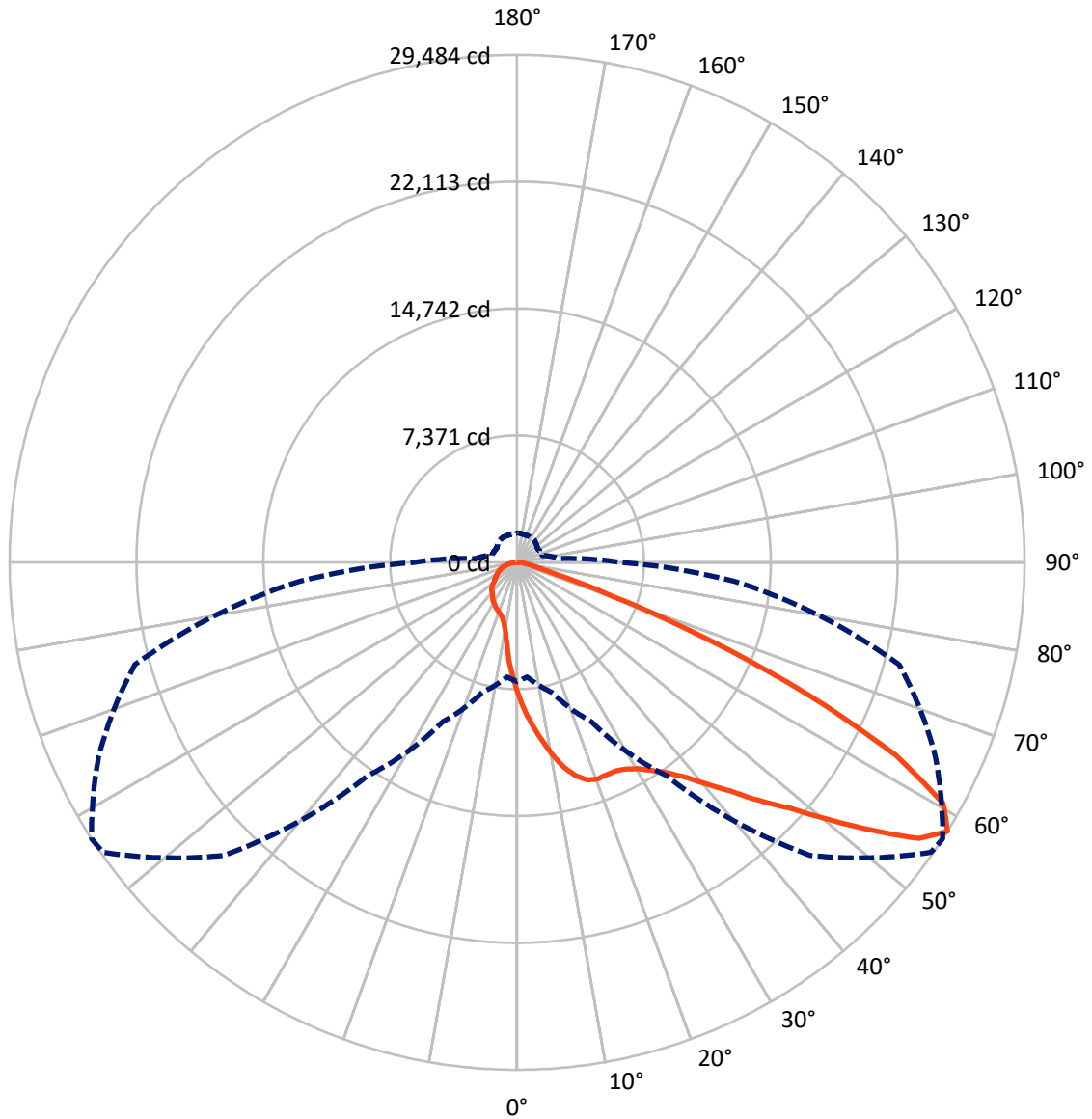
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

REPORT NUMBER: P648585
CATALOG NUMBER: GALN-SA8B-835-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648585
 CATALOG NUMBER: GALN-SA8B-835-U-AFL

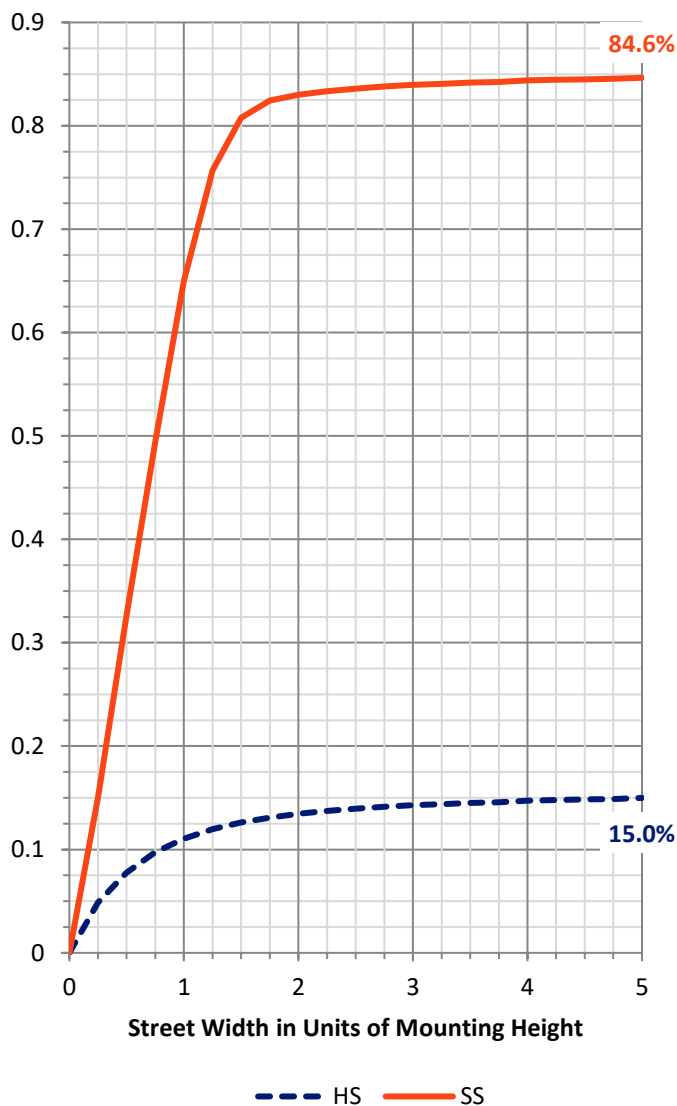
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5524.7	0.0	5524.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	30804.9	0.0	30804.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	36329.6	0.0	36329.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.6	2.0
10°-20°	2161.8	6.0
20°-30°	3589.7	9.9
30°-40°	5407.2	14.9
40°-50°	8118.4	22.3
50°-60°	9099.7	25.0
60°-70°	5325.6	14.7
70°-80°	1575.3	4.3
80°-90°	318.4	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°	36329.6	100.0
0°-180°	36329.6	100.0

Coefficient of Utilization



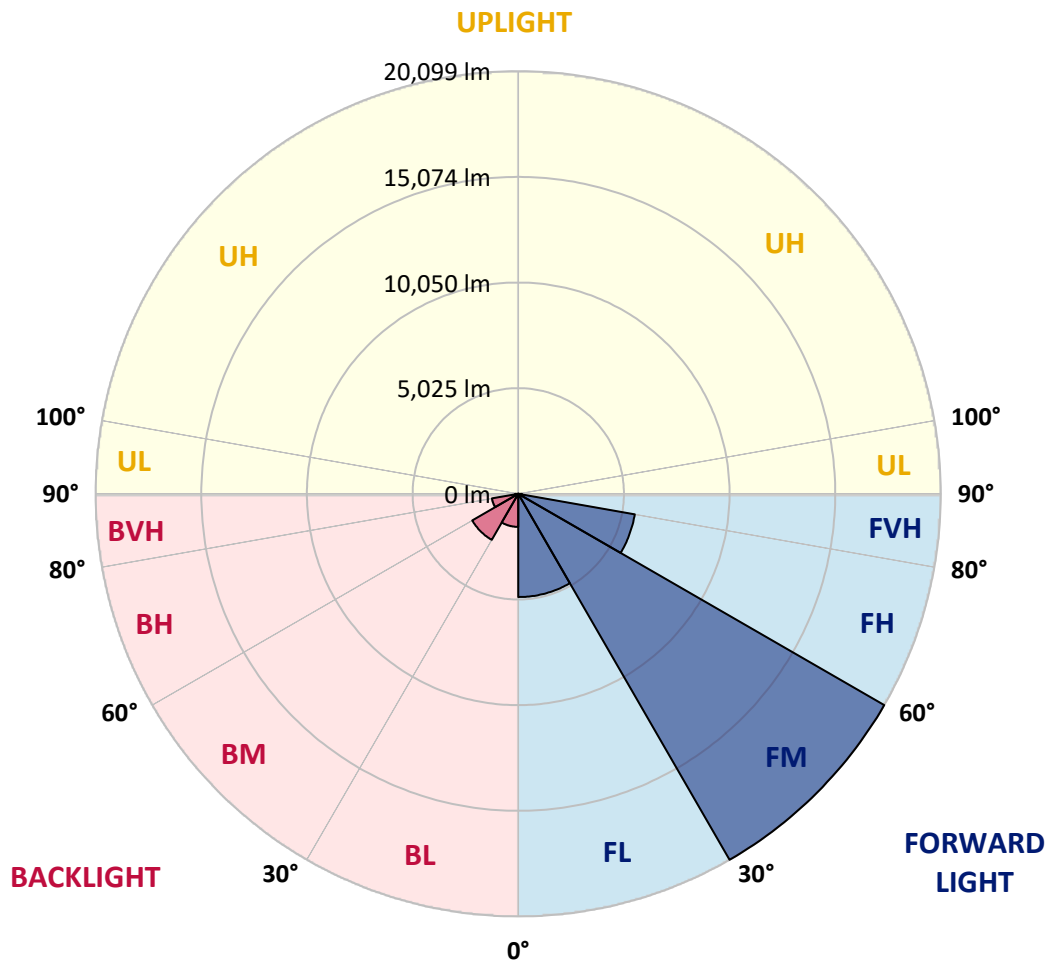
REPORT NUMBER: P648585
 CATALOG NUMBER: GALN-SA8B-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4910.9	13.5			
FM (30°-60°)	20099.1	55.3			
FH (60°-80°)	5629.6	15.5			G3/7500
FVH (80°-90°)	165.2	0.5			G2/225
BL (0°-30°)	1574.2	4.3	B3/2500		
BM (30°-60°)	2526.1	7.0	B3/5000		
BH (60°-80°)	1271.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	153.2	0.4			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: P648585

CATALOG NUMBER: GALN-SA8B-835-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4
2.5°	9483.9	9380.5	9298.9	9227.3	9133.9	8881.3	8628.7	8624.7	8423.9	8113.7	7795.5
5°	11029.0	10889.9	10907.7	10685.1	10462.3	10096.4	9561.4	9533.6	9106.1	8525.4	7934.7
7.5°	12035.3	12037.3	11981.6	11854.3	11613.7	11198.1	10591.6	10454.3	9859.7	8978.7	8093.8
10°	11983.6	12037.3	12130.8	12240.2	12313.7	12108.9	11556.1	11389.0	10615.4	9527.6	8270.8
12.5°	11295.6	11379.0	11512.3	11786.7	12230.2	12568.2	12379.4	12244.1	11490.4	10074.5	8465.7
15°	10866.0	10915.7	10989.2	11174.2	11651.5	12460.9	12950.1	12878.5	12315.7	10693.0	8684.4
17.5°	10734.8	10784.4	10808.3	10921.7	11261.7	12091.0	13174.8	13302.1	13047.5	11261.7	8905.2
20°	10866.0	10889.9	10889.9	10957.5	11223.9	11874.2	13164.9	13421.4	13648.1	11943.8	9112.0
22.5°	11210.1	11220.0	11206.1	11229.9	11428.7	11933.9	13071.4	13389.6	14133.3	12522.5	9273.1
25°	11768.8	11784.8	11693.2	11637.6	11782.7	12196.4	13123.1	13415.5	14513.1	13075.4	9380.5
27.5°	12403.2	12423.1	12311.7	12182.5	12250.1	12520.6	13326.0	13588.4	14797.5	13620.3	9448.1
30°	13180.8	13188.7	13001.8	12846.7	12802.9	13003.8	13672.0	13916.6	15151.5	14262.6	9549.5
32.5°	13976.2	14035.9	13795.3	13576.5	13502.9	13564.6	14183.0	14419.7	15573.1	14952.6	9712.6
35°	15058.0	15068.0	14779.7	14513.1	14270.6	14350.1	14837.3	15008.3	16155.8	15750.1	9943.2
37.5°	16408.4	16499.8	16102.1	15605.0	15306.6	15191.3	15628.8	15815.7	16973.2	16728.6	10291.3
40°	17907.8	17941.6	17601.5	17291.3	16746.4	16412.3	16714.6	16917.4	17981.4	17895.9	10695.0
42.5°	18850.4	18924.0	18949.9	18918.1	18508.4	17947.5	18062.9	18158.4	19174.6	18991.6	11108.6
45°	19168.6	19278.0	19647.9	20431.4	20475.1	19922.3	19653.8	19745.3	20475.1	20097.3	11504.3
47.5°	18641.6	18828.6	19510.6	21117.5	22320.6	22362.4	21553.0	21352.2	21660.4	21014.1	11790.7
50°	17279.4	17319.2	18363.2	20689.9	23185.6	24695.0	23857.9	23484.0	22785.9	21692.2	11987.6
52.5°	15171.4	15217.1	16092.1	18703.3	22652.7	26325.8	26554.4	25886.3	23929.4	22219.2	12116.8
55°	11261.7	11526.2	12488.7	15012.3	20127.1	26172.6	28698.2	28318.4	25311.6	22636.8	12319.7
57.5°	6924.5	6681.9	7823.3	10213.7	15137.6	24068.6	29360.5	29483.7	26832.9	22986.8	12659.8
60°	3185.8	3233.6	3704.8	5267.9	9227.3	18828.6	27654.2	28433.7	27674.0	22974.9	12745.3
62.5°	2195.5	2151.7	2032.4	2312.8	4208.0	11908.0	23358.7	24679.1	25987.7	22260.9	12405.2
65°	1962.8	1919.1	1688.4	1610.8	1933.0	5190.4	16981.1	18647.5	21881.1	20459.2	11558.0
67.5°	1833.6	1773.9	1535.2	1384.1	1380.1	2066.2	10012.8	12019.4	16229.4	17297.3	10014.8
70°	1698.3	1650.6	1413.9	1246.8	1175.3	1298.6	4400.9	5761.2	10537.8	12464.9	7801.5
72.5°	1563.1	1507.4	1294.6	1115.6	1022.1	972.5	1686.3	2193.5	5954.0	7473.3	4782.7
75°	1366.2	1338.4	1157.4	1010.2	908.8	785.5	1069.9	1221.0	2847.8	3432.4	2400.3
77.5°	1195.2	1165.3	1028.2	883.0	809.4	638.4	759.7	829.3	1201.1	1392.0	1083.8
80°	875.0	904.8	867.0	779.6	721.8	501.1	511.1	568.8	713.9	789.5	662.2
82.5°	554.8	610.5	668.2	600.6	546.8	395.7	354.0	375.8	487.2	517.0	294.3
85°	232.7	236.6	387.8	365.9	312.2	234.7	212.8	224.7	260.5	272.5	137.2
87.5°	89.5	87.5	137.2	127.2	97.4	67.7	67.7	75.6	103.4	95.4	43.8
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: P648585
 CATALOG NUMBER: GALN-SA8B-835-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4	7632.4
2.5°	7658.3	7517.1	7236.7	6888.7	6634.1	6347.8	6095.2	5914.2	5846.7	5814.8	5755.1
5°	7652.3	7373.9	6793.2	6184.7	5695.5	5194.3	4770.7	4496.4	4472.5	4289.5	4271.7
7.5°	7654.3	7228.7	6304.0	5409.1	4663.4	4150.3	3800.3	3708.8	3599.5	3571.7	3585.5
10°	7660.2	7043.8	5779.0	4641.5	3919.6	3583.6	3452.3	3416.5	3420.5	3432.4	3434.4
12.5°	7668.2	6864.8	5234.1	4058.8	3502.0	3362.8	3348.9	3380.7	3414.5	3440.3	3446.3
15°	7678.2	6660.0	4703.2	3589.5	3293.2	3281.2	3327.0	3380.7	3428.4	3466.2	3472.2
17.5°	7666.3	6421.4	4257.7	3301.1	3177.9	3235.5	3311.1	3378.7	3422.5	3458.3	3462.3
20°	7638.4	6154.8	3828.2	3098.3	3106.2	3199.7	3281.2	3344.9	3392.7	3410.5	3424.5
22.5°	7531.1	5836.7	3454.3	2941.2	3020.7	3150.0	3247.5	3285.2	3231.5	3193.8	3203.7
25°	7348.1	5423.1	3106.2	2813.9	2943.2	3080.4	3179.8	3088.4	3044.6	3028.7	3036.6
27.5°	7119.3	4969.6	2843.8	2680.7	2843.8	3002.9	2975.0	2959.1	2939.2	2913.4	2919.3
30°	6872.8	4526.1	2621.0	2577.3	2736.4	2827.9	2839.8	2865.6	2843.8	2804.0	2819.9
32.5°	6644.1	4108.6	2452.0	2489.8	2660.8	2646.9	2736.4	2766.2	2664.8	2531.5	2537.5
35°	6449.2	3720.7	2324.7	2404.3	2531.5	2537.5	2627.0	2523.6	2414.2	2350.6	2354.6
37.5°	6302.1	3418.5	2241.2	2330.7	2366.5	2442.1	2394.3	2340.6	2326.7	2283.0	2285.0
40°	6214.5	3154.0	2187.5	2273.0	2267.1	2318.8	2165.6	2219.3	2239.2	2225.3	2227.3
42.5°	6127.1	2967.1	2131.8	2193.5	2191.5	2090.1	2056.2	2102.0	2153.7	2159.7	2155.7
45°	6057.4	2821.9	2074.2	2072.2	2111.9	1952.9	1942.9	1970.7	2044.3	2080.1	2078.2
47.5°	5979.8	2700.6	1986.6	1931.0	1942.9	1867.4	1851.4	1863.4	1952.9	2010.5	2026.4
50°	5882.4	2579.3	1877.3	1801.7	1752.0	1787.8	1791.7	1793.8	1883.3	1948.9	1962.8
52.5°	5804.8	2487.8	1752.0	1696.3	1636.6	1716.2	1746.0	1750.0	1803.7	1857.4	1867.4
55°	5850.6	2436.1	1628.7	1588.9	1535.2	1642.7	1700.3	1708.3	1720.2	1759.9	1765.9
57.5°	5987.8	2448.0	1529.3	1477.6	1437.8	1555.1	1652.6	1658.6	1650.6	1698.3	1706.2
60°	6029.6	2442.1	1455.7	1354.3	1330.4	1461.6	1583.0	1594.9	1592.9	1662.5	1676.4
62.5°	5854.6	2366.5	1382.1	1250.8	1234.9	1366.2	1485.5	1533.3	1543.2	1642.7	1660.5
65°	5442.9	2211.3	1284.7	1141.5	1141.5	1264.8	1392.0	1457.7	1485.5	1618.8	1638.7
67.5°	4900.0	2028.4	1185.2	1048.0	1044.1	1167.4	1292.7	1360.2	1404.0	1584.9	1596.9
70°	4066.8	1781.8	1061.9	946.6	946.6	1058.0	1171.3	1252.9	1316.5	1521.3	1521.3
72.5°	2786.1	1481.5	912.8	831.2	833.3	936.6	1052.0	1143.5	1219.1	1394.1	1398.0
75°	1761.9	1157.4	749.7	708.0	715.9	813.4	932.7	1028.2	1179.3	1378.2	1384.1
77.5°	936.6	813.4	596.6	586.6	596.6	686.1	819.3	950.6	1183.3	1195.2	1175.3
80°	606.5	576.7	471.3	451.4	455.4	552.9	729.8	902.9	950.6	962.5	918.8
82.5°	330.1	365.9	334.1	314.2	314.2	431.5	622.5	717.9	682.1	566.7	540.9
85°	141.2	171.0	173.0	151.1	145.2	266.5	417.7	391.7	363.9	348.0	344.1
87.5°	39.8	55.7	55.7	41.7	31.8	73.6	83.5	23.9	0.0	2.0	4.0
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)