

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: P456420

Luminaire Tested: **GALN-SA7C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39820 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 377
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

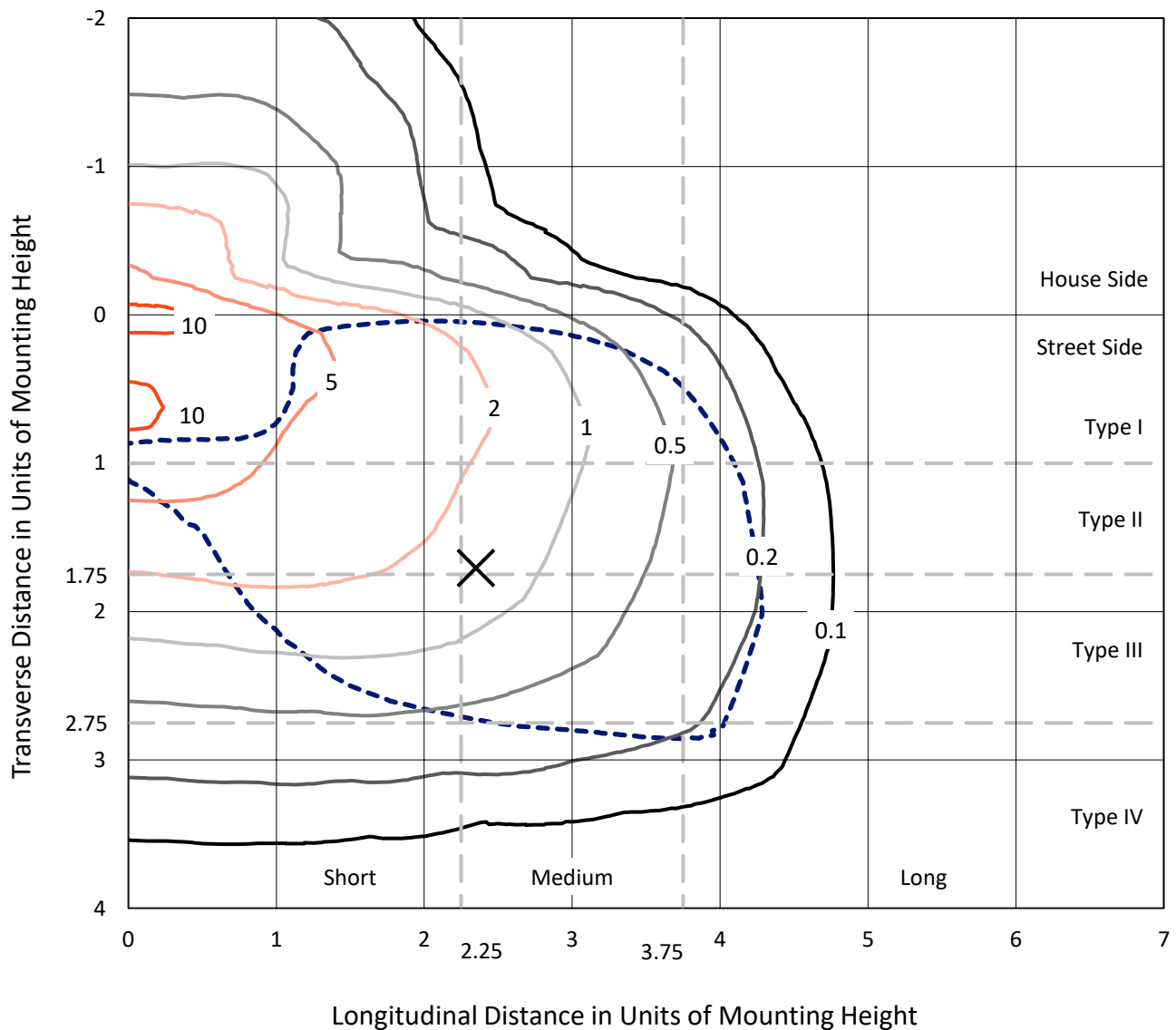


REPORT NUMBER: P456420

CATALOG NUMBER: GALN-SA7C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

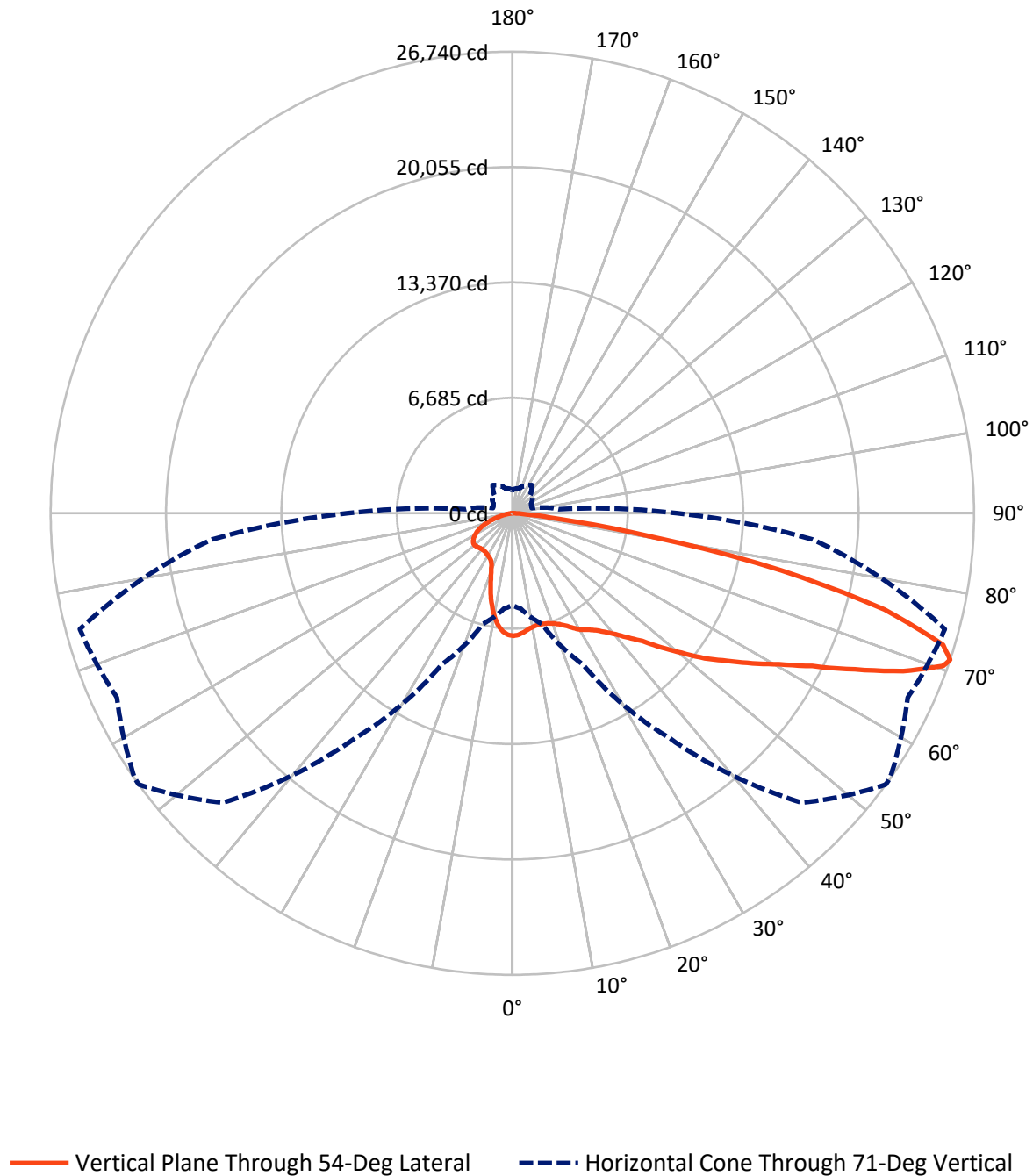


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P456420

CATALOG NUMBER: GALN-SA7C-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P456420

CATALOG NUMBER: GALN-SA7C-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7189.2	0.0	7189.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32630.8	0.0	32630.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	39820.0	0.0	39820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.1	1.6
10°-20°	1671.7	4.2
20°-30°	2783.5	7.0
30°-40°	4115.9	10.3
40°-50°	5797.4	14.6
50°-60°	7763.0	19.5
60°-70°	9784.7	24.6
70°-80°	6682.9	16.8
80°-90°	587.7	1.5
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°	39820.0	100.0
0°-180°	39820.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456420

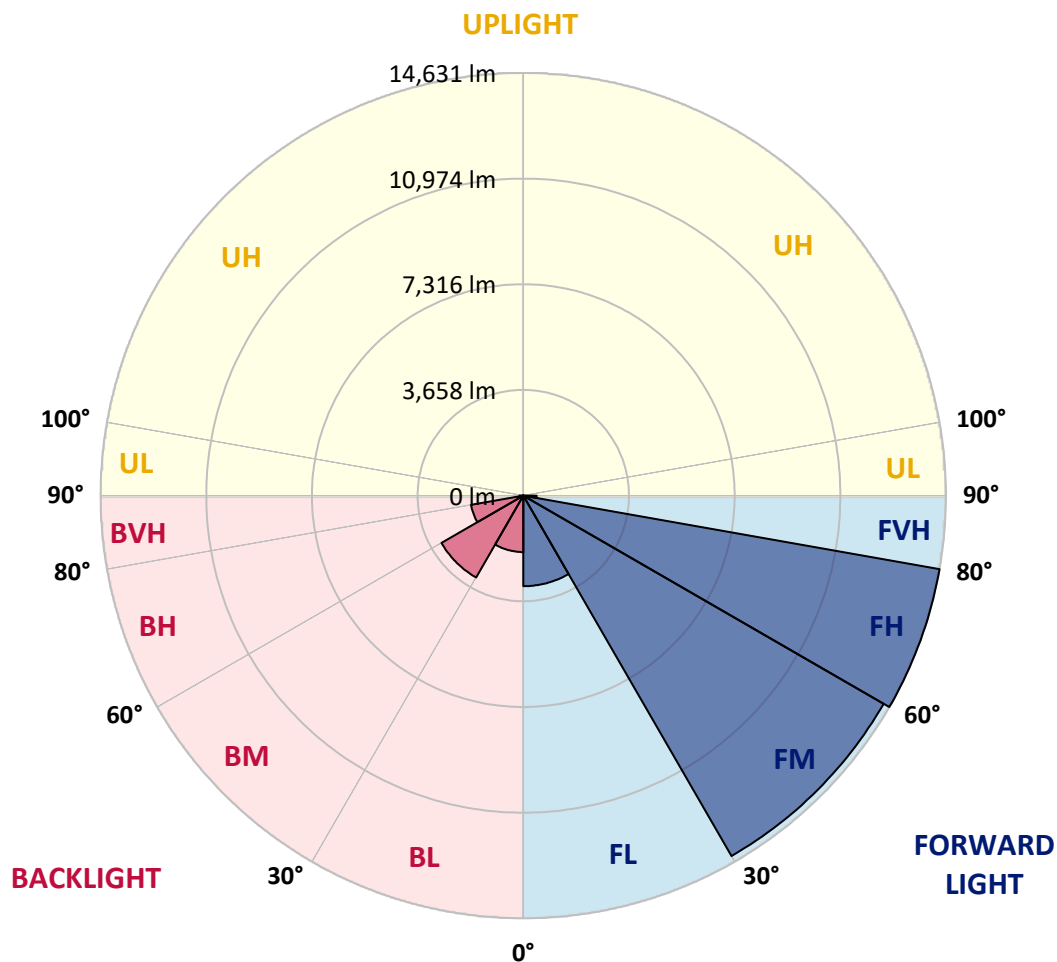
CATALOG NUMBER: GALN-SA7C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3134.5	7.9			
FM	(30°-60°)	14405.4	36.2			
FH	(60°-80°)	14631.4	36.7			G5
FVH	(80°-90°)	459.4	1.2			G3/500
BL	(0°-30°)	1953.9	4.9	B3/2500		
BM	(30°-60°)	3270.9	8.2	B3/5000		
BH	(60°-80°)	1836.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	128.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P456420

CATALOG NUMBER: GALN-SA7C-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5
2.5°	6863.6	6895.8	6904.4	6926.0	6971.1	7007.7	7044.3	7040.0	7091.6	7113.1	7132.4
5°	6558.1	6566.7	6599.0	6642.0	6721.6	6822.7	6921.6	6923.8	7050.7	7151.8	7201.3
7.5°	6334.4	6362.4	6383.9	6429.1	6513.0	6622.7	6779.7	6792.6	7018.4	7218.5	7323.9
10°	6188.2	6220.5	6244.1	6300.0	6383.9	6506.5	6676.4	6700.1	6994.8	7323.9	7508.8
12.5°	6054.8	6087.1	6108.6	6181.7	6291.4	6442.0	6633.4	6661.4	7003.4	7446.5	7711.0
15°	6136.6	6162.4	6153.8	6175.3	6248.4	6420.5	6650.6	6678.6	7035.6	7564.8	7911.1
17.5°	6500.1	6521.6	6450.6	6368.9	6334.4	6461.4	6704.4	6734.5	7100.2	7687.4	8115.4
20°	7035.6	7093.7	6938.9	6756.0	6590.4	6607.6	6816.3	6848.5	7190.5	7810.0	8324.0
22.5°	7732.5	7775.6	7586.3	7285.2	6979.7	6822.7	6984.0	7003.4	7326.0	7969.1	8552.0
25°	8552.0	8577.9	8315.4	7928.3	7487.3	7190.5	7214.2	7248.6	7549.7	8149.8	8754.2
27.5°	9347.9	9429.6	9126.3	8653.1	8072.4	7577.7	7530.4	7551.9	7792.8	8250.9	8894.0
30°	10292.1	10285.7	9965.2	9416.7	8672.5	7999.3	7829.3	7825.0	7924.0	8300.4	8995.1
32.5°	11045.0	11133.1	10819.1	10221.2	9358.6	8435.9	8035.8	8027.2	8025.1	8386.4	9145.7
35°	11901.0	11913.9	11625.7	11023.4	10100.7	8984.4	8324.0	8281.0	8231.6	8571.4	9350.0
37.5°	12666.7	12727.0	12462.4	11787.0	10829.9	9554.4	8719.8	8691.9	8541.3	8891.9	9677.0
40°	13264.7	13309.9	13150.7	12507.6	11548.3	10169.5	9223.1	9171.5	8988.7	9416.7	10113.6
42.5°	13460.4	13552.9	13615.3	13299.1	12374.2	10898.7	9842.6	9778.1	9638.3	10212.6	10616.9
45°	13475.5	13621.8	13950.8	13965.9	13204.5	11772.0	10565.3	10520.1	10509.4	11232.1	11324.6
47.5°	13361.5	13509.9	14062.7	14361.7	13944.4	12653.8	11608.5	11537.5	11544.0	12492.5	12118.3
50°	13086.2	13262.6	13933.6	14615.5	14523.0	13570.1	12709.8	12686.1	12819.5	13931.5	12942.1
52.5°	12567.8	12780.7	13800.3	14774.6	14953.2	14359.5	13961.6	13894.9	14232.6	15493.1	13843.3
55°	11133.1	11453.6	13312.0	14862.8	15361.8	15114.5	15088.7	15209.1	15656.5	17196.6	14834.9
57.5°	10384.6	10625.5	12251.6	14877.9	15878.1	15992.1	16405.0	16435.2	17218.1	19005.5	15955.5
60°	9976.0	10188.9	11670.9	14778.9	16598.6	17078.3	17751.5	17859.1	18743.1	20965.0	17117.0
62.5°	9618.9	9801.7	11322.4	14437.0	17411.7	18689.3	19495.9	19547.5	20474.6	23128.8	18263.4
65°	8777.9	8986.5	10621.2	14095.0	18112.9	20702.6	21810.3	21750.1	22317.9	24995.8	18981.8
67.5°	7644.4	7908.9	9311.3	12914.1	18459.2	22903.0	24417.2	24341.9	24137.6	26219.7	19188.3
70°	6196.8	6338.8	7635.8	10872.9	17076.1	24058.0	26475.6	26396.0	25264.7	26381.0	18211.8
71°	5332.1	5553.7	6648.5	9657.6	15925.4	23705.3	26740.2	26718.7	25266.8	25935.8	17476.2
72.5°	4162.0	4297.5	5265.4	7483.0	13535.7	21700.6	26086.3	26168.1	24718.3	24699.0	15959.8
75°	2632.7	2692.9	3303.8	4405.1	7427.1	15368.3	22268.4	22490.0	21948.0	20216.5	11868.8
77.5°	1529.3	1606.7	1978.8	2596.2	3209.2	8341.3	15934.0	16174.9	15250.0	11131.0	4858.9
80°	890.5	976.5	1303.5	1507.8	1473.4	3095.2	8113.3	8524.1	6603.3	2811.2	1363.7
82.5°	494.7	552.8	916.3	918.4	785.1	1010.9	2553.1	2671.4	1884.2	1133.5	557.1
85°	359.2	406.5	591.5	535.6	376.4	434.5	888.3	931.3	761.4	477.5	180.7
87.5°	126.9	180.7	324.8	258.1	103.2	90.3	256.0	208.6	193.6	133.4	40.9
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: P456420

CATALOG NUMBER: GALN-SA7C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5	7104.5
2.5°	7143.2	7147.5	7126.0	7087.3	7048.6	6999.1	6943.2	6900.1	6880.8	6878.6	6876.5
5°	7220.6	7231.4	7149.6	7029.2	6895.8	6732.4	6592.6	6433.4	6392.5	6328.0	6347.4
7.5°	7345.4	7338.9	7177.6	6921.6	6609.8	6263.5	5970.9	5801.0	5624.6	5575.2	5577.3
10°	7523.9	7483.0	7177.6	6702.3	6181.7	5667.7	5259.0	5000.9	4861.1	4744.9	4701.9
12.5°	7713.2	7609.9	7108.8	6394.7	5631.1	5000.9	4562.1	4213.6	4123.3	4028.7	4030.8
15°	7893.9	7721.8	6973.3	5962.3	5037.4	4288.9	3863.0	3654.4	3626.4	3637.2	3635.0
17.5°	8057.3	7801.4	6766.8	5480.5	4344.9	3678.1	3452.2	3467.3	3542.6	3596.3	3602.8
20°	8223.0	7848.7	6459.2	4835.3	3691.0	3308.1	3316.7	3435.0	3549.0	3622.1	3632.9
22.5°	8380.0	7870.2	6097.8	4211.5	3217.8	3151.1	3278.0	3404.9	3516.7	3587.7	3598.5
25°	8483.2	7820.7	5585.9	3559.8	2985.5	3095.2	3228.5	3336.1	3430.7	3503.8	3521.1
27.5°	8511.2	7661.6	4951.4	3032.8	2877.9	3041.4	3164.0	3243.6	3316.7	3385.5	3398.4
30°	8496.1	7427.1	4254.5	2723.1	2815.5	2979.0	3073.7	3131.7	3219.9	3273.7	3284.4
32.5°	8472.5	7153.9	3527.5	2557.4	2763.9	2920.9	2976.9	3028.5	3026.3	3004.8	3019.9
35°	8481.1	6827.0	2938.2	2458.5	2718.8	2877.9	2925.2	2860.7	2675.7	2667.1	2658.5
37.5°	8526.2	6504.4	2510.1	2389.7	2695.1	2871.5	2897.3	2600.5	2437.0	2361.7	2342.3
40°	8642.4	6128.0	2228.3	2338.0	2692.9	2920.9	2770.4	2469.3	2155.2	2009.0	1998.2
42.5°	8797.2	5758.0	2056.3	2305.8	2718.8	2996.2	2718.8	2284.3	1942.3	1856.2	1843.3
45°	9027.4	5334.3	1961.6	2290.7	2757.5	3024.2	2701.6	2148.8	1856.2	1787.4	1787.4
47.5°	9287.7	4929.9	1910.0	2280.0	2806.9	3004.8	2548.8	2105.7	1815.4	1824.0	1864.8
50°	9545.8	4579.3	1871.3	2256.3	2850.0	2994.1	2486.5	2103.6	1826.1	1935.8	2009.0
52.5°	9844.7	4331.9	1824.0	2217.6	2850.0	2925.2	2467.1	2146.6	1856.2	1888.5	1920.8
55°	10206.1	4254.5	1763.8	2133.7	2798.3	2753.2	2456.3	2209.0	1877.8	1802.5	1815.4
57.5°	10683.6	4379.3	1705.7	2028.3	2680.0	2574.6	2452.0	2226.2	1828.3	1765.9	1753.0
60°	11238.5	4626.6	1688.5	1920.8	2518.7	2421.9	2426.2	2176.7	1759.4	1694.9	1705.7
62.5°	11627.9	4775.0	1677.7	1839.0	2342.3	2254.2	2363.9	2116.5	1729.3	1673.4	1684.2
65°	11627.9	4594.4	1578.8	1714.3	2114.4	2052.0	2288.6	2041.2	1690.6	1626.1	1615.3
67.5°	11186.9	4067.4	1428.2	1527.2	1862.7	1821.8	2183.2	1950.9	1632.5	1583.1	1557.3
70°	10038.3	3084.4	1238.9	1307.8	1544.4	1580.9	2047.7	1828.3	1535.8	1475.5	1436.8
71°	9532.9	2686.5	1159.3	1195.9	1421.8	1475.5	1983.1	1776.7	1492.7	1406.7	1337.9
72.5°	8558.5	2262.8	1038.9	1053.9	1215.3	1312.1	1847.6	1677.7	1411.0	1288.4	1211.0
75°	6502.2	1651.9	836.7	828.1	899.1	1041.0	1563.7	1494.9	1236.8	1071.2	1026.0
77.5°	2809.1	899.1	625.9	632.4	610.9	789.4	1230.3	1284.1	1060.4	871.1	830.3
80°	851.8	518.4	428.0	436.6	408.7	529.1	866.8	1006.6	851.8	677.5	621.6
82.5°	436.6	309.7	292.5	288.2	260.3	299.0	524.8	688.3	608.7	423.7	374.3
85°	189.3	165.6	144.1	139.8	122.6	107.5	187.1	344.1	322.6	236.6	225.8
87.5°	47.3	43.0	28.0	25.8	15.1	2.2	0.0	0.0	0.0	0.0	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)