

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: STREETWORKS

Report Number: P321134

Luminaire Tested: **GAN-SA0C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57074 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 558
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



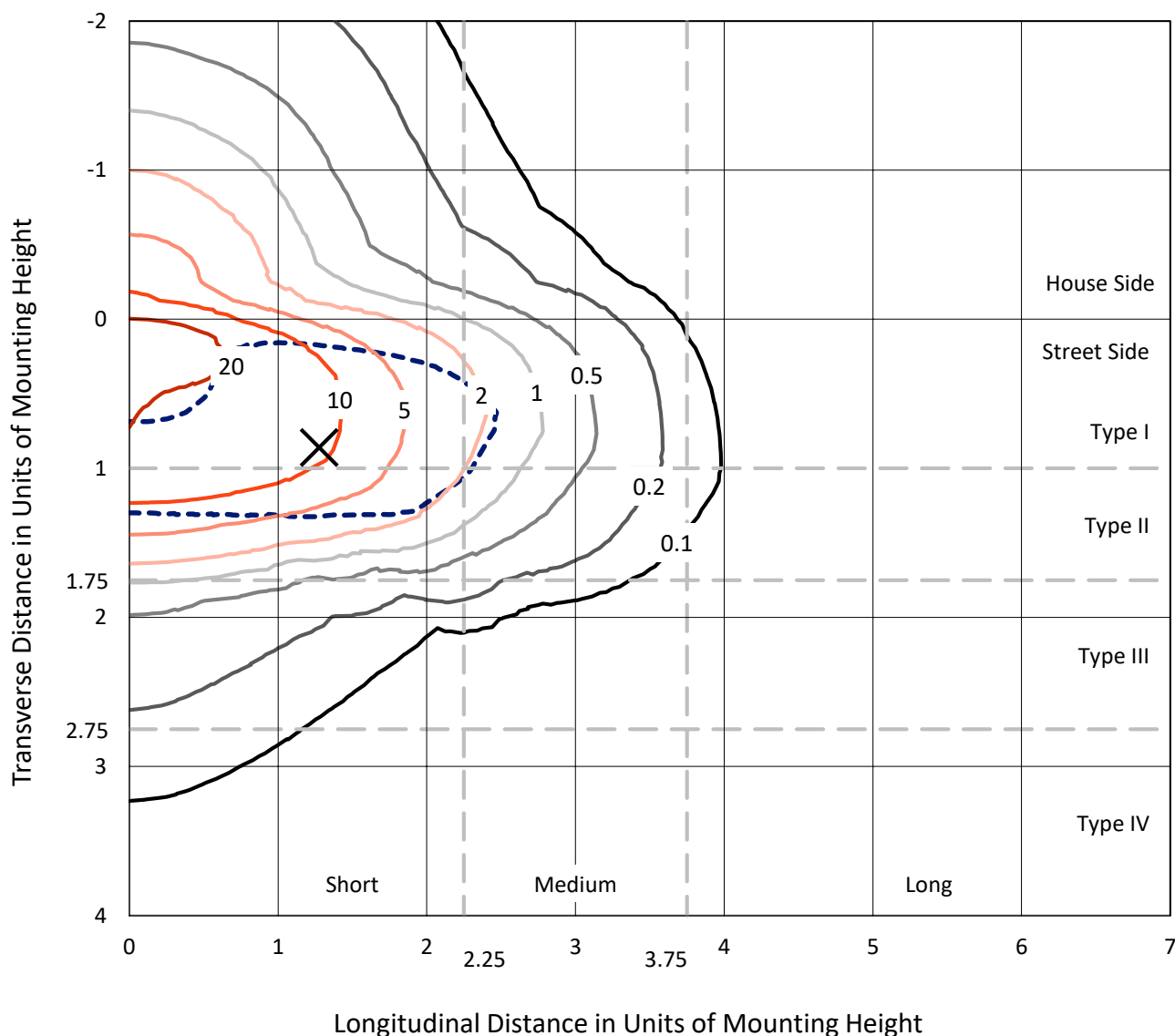
REPORT NUMBER: P321134

CATALOG NUMBER: GAN-SA0C-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

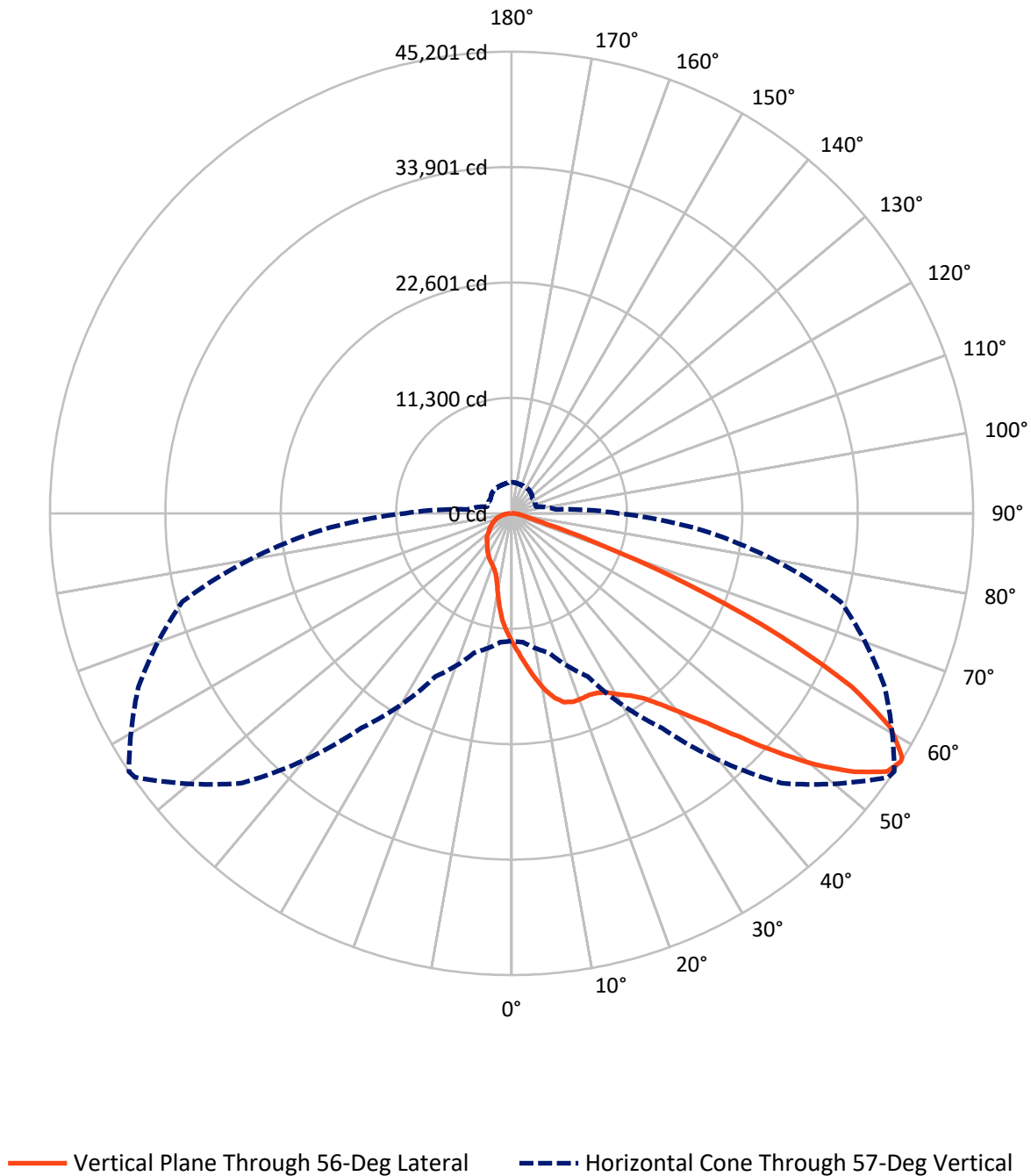


Based on 25 foot mounting height. Maximum calculated value = 28.1 fc

Type II - Short - N/A

REPORT NUMBER: P321134
CATALOG NUMBER: GAN-SA0C-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P321134

CATALOG NUMBER: GAN-SA0C-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.3	0.0	9838.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	47235.7	0.0	47235.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	57074.0	0.0	57074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.3	2.1
10°-20°	3418.8	6.0
20°-30°	5568.7	9.8
30°-40°	8324.5	14.6
40°-50°	12626.5	22.1
50°-60°	14152.1	24.8
60°-70°	8358.8	14.6
70°-80°	2738.7	4.8
80°-90°	676.6	1.2
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°	57074.0	100.0
0°-180°	57074.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321134

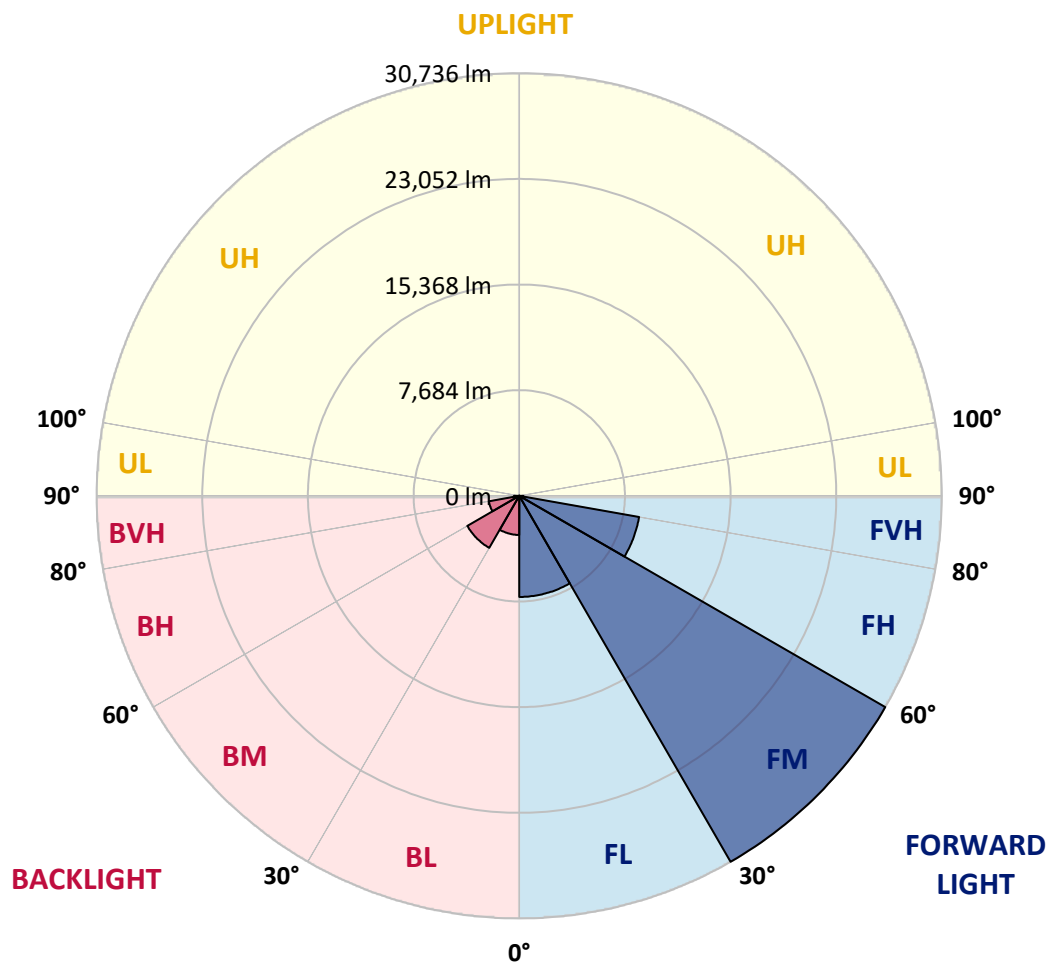
CATALOG NUMBER: GAN-SA0C-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7352.0	12.9			
FM	(30°-60°)	30736.2	53.9			
FH	(60°-80°)	8849.5	15.5			G4/12000
FVH	(80°-90°)	297.9	0.5			G3/500
BL	(0°-30°)	2844.8	5.0	B4/5000		
BM	(30°-60°)	4366.9	7.7	B3/5000		
BH	(60°-80°)	2247.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	378.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P321134

CATALOG NUMBER: GAN-SAOC-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1
2.5°	14536.2	14669.5	14610.7	14406.7	14249.8	14028.1	13781.0	13706.5	13445.6	13153.3	12802.2
5°	16836.9	16770.2	16674.1	16356.4	16021.0	15630.6	15010.8	14912.7	14332.2	13671.2	12972.9
7.5°	18147.1	18141.3	18084.4	17898.0	17592.1	17082.1	16334.8	16219.1	15342.3	14279.2	13196.5
10°	17956.9	17943.2	18037.3	18231.5	18323.7	18217.8	17588.1	17472.4	16395.6	14952.0	13455.4
12.5°	16876.1	16884.0	17035.0	17443.0	17998.1	18665.0	18563.0	18506.1	17488.1	15713.0	13769.2
15°	16034.7	16052.3	16172.0	16527.0	17182.1	18392.3	19155.3	19174.9	18545.3	16552.5	14136.0
17.5°	15665.9	15703.2	15758.1	16007.2	16607.4	17849.0	19296.5	19402.5	19471.1	17423.4	14489.1
20°	15783.6	15818.9	15834.6	15993.5	16485.8	17519.5	19198.5	19388.7	20181.1	18243.3	14842.1
22.5°	16311.2	16332.8	16342.6	16383.8	16766.3	17613.6	19133.7	19333.8	20695.0	18978.8	15108.9
25°	17186.0	17170.4	17107.6	17054.6	17311.6	17986.3	19282.8	19473.1	21112.8	19645.7	15283.5
27.5°	18233.4	18213.8	18092.2	17947.1	18094.2	18566.9	19712.4	19863.4	21487.5	20269.4	15371.7
30°	19490.7	19439.7	19210.2	19037.6	19094.5	19437.8	20420.4	20557.7	22066.1	20977.5	15458.0
32.5°	20944.1	20889.2	20557.7	20271.4	20271.4	20557.7	21150.1	21263.9	22556.4	21777.8	15597.3
35°	22764.3	22695.7	22264.2	21783.6	21648.3	21793.4	22144.5	22225.0	23439.1	22785.9	15850.3
37.5°	24910.2	24818.0	24259.0	23615.6	23319.4	23311.6	23564.6	23729.4	24849.3	24109.9	16279.9
40°	27061.8	26997.1	26508.7	26002.7	25422.1	25235.8	25626.1	25677.1	26693.1	25753.6	16829.1
42.5°	28725.1	28713.4	28623.1	28689.8	28095.5	27718.9	28024.9	28066.1	28944.8	27532.6	17413.6
45°	29603.9	29623.5	30060.9	31029.8	31249.5	30974.9	31125.9	31137.7	31518.2	29327.3	17949.0
47.5°	28899.7	29001.7	30107.9	32275.3	34074.0	34986.0	34735.0	34880.1	34013.1	30869.0	18368.8
50°	26155.7	26281.2	28164.2	31720.2	35392.0	38867.7	38736.3	38702.9	36025.6	31998.8	18596.3
52.5°	22756.5	22854.6	24408.0	28835.0	34425.0	41013.5	42219.8	42047.2	37814.4	32844.1	18639.5
55°	17580.3	17733.3	19222.0	23076.2	30514.0	40193.6	44781.4	44626.4	39444.3	33287.4	18588.5
57°	12498.2	12659.1	14138.0	17611.7	25669.2	37355.4	45036.4	45201.1	40325.0	33362.0	18645.3
57.5°	11152.7	11317.4	12782.6	16156.3	24158.9	36329.6	44816.7	45091.3	40483.9	33350.2	18676.7
60°	5615.6	5678.3	6612.0	9018.7	15271.7	29370.4	41951.1	42659.1	40627.1	32773.5	18812.1
62.5°	3491.3	3446.2	3416.8	4154.3	7429.9	19477.0	36037.3	37400.5	37887.0	31377.0	18484.5
65°	3069.6	2985.3	2661.7	2602.8	3281.5	9460.0	27138.3	28835.0	32032.1	29176.3	17703.9
67.5°	2883.3	2800.9	2436.1	2216.4	2218.4	3750.3	16848.7	18759.1	24953.3	25455.4	15862.1
70°	2691.1	2616.5	2275.3	2016.3	1888.9	2077.2	7751.6	9201.1	16266.1	20008.5	13257.3
72.5°	2443.9	2392.9	2069.3	1802.6	1667.2	1555.4	2967.6	3505.1	9416.8	13437.8	9206.9
75°	2185.0	2138.0	1861.4	1606.4	1441.7	1223.9	1671.1	1800.6	4783.9	6874.8	4532.9
77.5°	1900.6	1873.2	1655.4	1420.1	1288.7	1014.1	1182.7	1245.5	2051.7	2948.0	2273.3
80°	1512.3	1565.2	1447.5	1265.1	1143.5	812.0	837.5	878.7	1194.5	1439.7	1290.6
82.5°	984.6	1076.8	1133.7	1027.8	941.5	639.4	602.2	619.8	778.7	878.7	561.0
85°	409.9	460.9	745.3	672.8	625.7	466.8	404.1	411.9	482.5	500.2	229.5
87.5°	182.4	194.2	327.6	307.9	264.8	160.8	172.6	188.3	256.9	243.2	88.3
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: P321134

CATALOG NUMBER: GAN-SA0C-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1	12659.1
2.5°	12670.8	12506.1	12223.6	11911.8	11656.8	11452.8	11246.8	11105.6	10940.9	10852.6	10807.5
5°	12680.6	12357.0	11762.7	11152.7	10607.4	10109.2	9634.5	9269.7	8928.4	8744.1	8693.1
7.5°	12721.8	12235.4	11274.3	10270.0	9301.1	8416.5	7733.9	7306.3	6998.4	6861.1	6821.9
10°	12755.2	12092.2	10670.2	9183.4	7865.3	6969.0	6439.4	6200.1	6094.2	6076.5	6058.9
12.5°	12833.6	11945.1	10034.7	8049.7	6749.3	6129.5	5945.1	5929.4	5958.8	6002.0	6002.0
15°	12957.2	11800.0	9308.9	7076.8	6039.2	5821.5	5858.8	5945.1	6025.5	6092.2	6102.0
17.5°	13047.4	11621.5	8528.3	6298.1	5660.7	5719.5	5852.9	5974.5	6056.9	6121.6	6127.5
20°	13112.2	11344.9	7694.7	5703.8	5443.0	5625.4	5792.1	5900.0	5956.9	6021.6	6031.4
22.5°	13078.8	10974.2	6955.2	5278.2	5266.4	5488.1	5647.0	5776.4	5733.3	5670.5	5711.7
25°	12918.0	10464.2	6194.2	4960.5	5080.1	5303.7	5499.8	5413.5	5268.4	5240.9	5256.6
27.5°	12631.6	9813.0	5490.0	4666.2	4864.3	5133.1	5121.3	5035.0	4984.0	4948.7	4970.3
30°	12323.7	9106.9	4874.2	4409.3	4625.1	4846.7	4801.6	4799.6	4748.6	4691.7	4719.2
32.5°	12019.6	8396.9	4385.8	4197.5	4444.6	4474.0	4572.1	4601.5	4501.5	4381.8	4374.0
35°	11754.8	7726.1	4015.0	4005.2	4226.9	4230.8	4374.0	4332.8	4083.7	3960.1	3960.1
37.5°	11556.7	7057.2	3732.6	3832.6	3940.5	4042.5	4115.1	3944.4	3903.2	3834.6	3832.6
40°	11470.4	6468.8	3556.1	3701.2	3738.5	3867.9	3681.6	3748.3	3767.9	3732.6	3732.6
42.5°	11380.2	5956.9	3403.1	3601.2	3595.3	3577.6	3483.5	3569.8	3648.3	3650.2	3644.3
45°	11290.0	5515.5	3267.7	3387.4	3469.8	3279.5	3297.2	3389.3	3499.2	3538.4	3538.4
47.5°	11190.0	5166.4	3144.2	3161.8	3289.3	3161.8	3148.1	3218.7	3348.2	3410.9	3424.7
50°	10970.3	4852.6	3002.9	2963.7	2999.0	3042.2	3053.9	3087.3	3230.5	3330.5	3354.0
52.5°	10666.3	4572.1	2822.5	2781.3	2781.3	2944.1	2999.0	3008.8	3130.4	3250.1	3273.6
55°	10413.2	4393.6	2636.2	2628.3	2620.5	2840.1	2934.3	2950.0	3034.3	3128.5	3140.2
57°	10430.9	4379.9	2493.0	2500.8	2498.9	2734.2	2873.5	2906.8	2950.0	3030.4	3044.1
57.5°	10440.7	4389.7	2461.6	2465.5	2463.6	2704.8	2855.8	2893.1	2926.5	3010.8	3024.5
60°	10587.8	4415.2	2334.1	2290.9	2300.8	2547.9	2755.8	2802.9	2824.5	2936.3	2953.9
62.5°	10370.1	4301.4	2232.1	2128.2	2128.2	2383.1	2616.5	2691.1	2724.4	2875.5	2904.9
65°	9738.5	3981.7	2112.5	1943.8	1963.4	2218.4	2449.8	2571.4	2622.4	2810.7	2842.1
67.5°	8763.7	3611.0	1985.0	1779.0	1798.6	2045.8	2277.2	2408.6	2489.1	2740.1	2765.6
70°	7494.6	3157.9	1812.4	1604.4	1628.0	1857.5	2073.2	2222.3	2341.9	2673.4	2681.3
72.5°	5525.3	2589.1	1571.1	1412.2	1437.7	1637.8	1867.3	2039.9	2200.7	2506.7	2502.8
75°	3285.4	2024.2	1304.4	1218.0	1235.7	1422.0	1680.9	1890.8	2132.1	2442.0	2479.2
77.5°	1992.8	1524.0	1063.1	1019.9	1041.5	1231.8	1547.6	1771.2	2102.7	2302.7	2290.9
80°	1204.3	1088.6	849.3	821.8	843.4	1053.3	1431.8	1680.9	1837.9	1967.3	1967.3
82.5°	629.6	664.9	623.7	602.2	631.6	855.2	1302.4	1467.1	1624.1	1394.6	1302.4
85°	256.9	347.2	378.6	376.6	394.2	592.4	1123.9	1255.3	1047.4	994.4	1018.0
87.5°	86.3	147.1	184.4	158.9	166.7	372.7	778.7	606.1	719.8	502.1	476.6
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)