

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: P317932

Luminaire Tested: **GAN-SA8C-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 46057 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

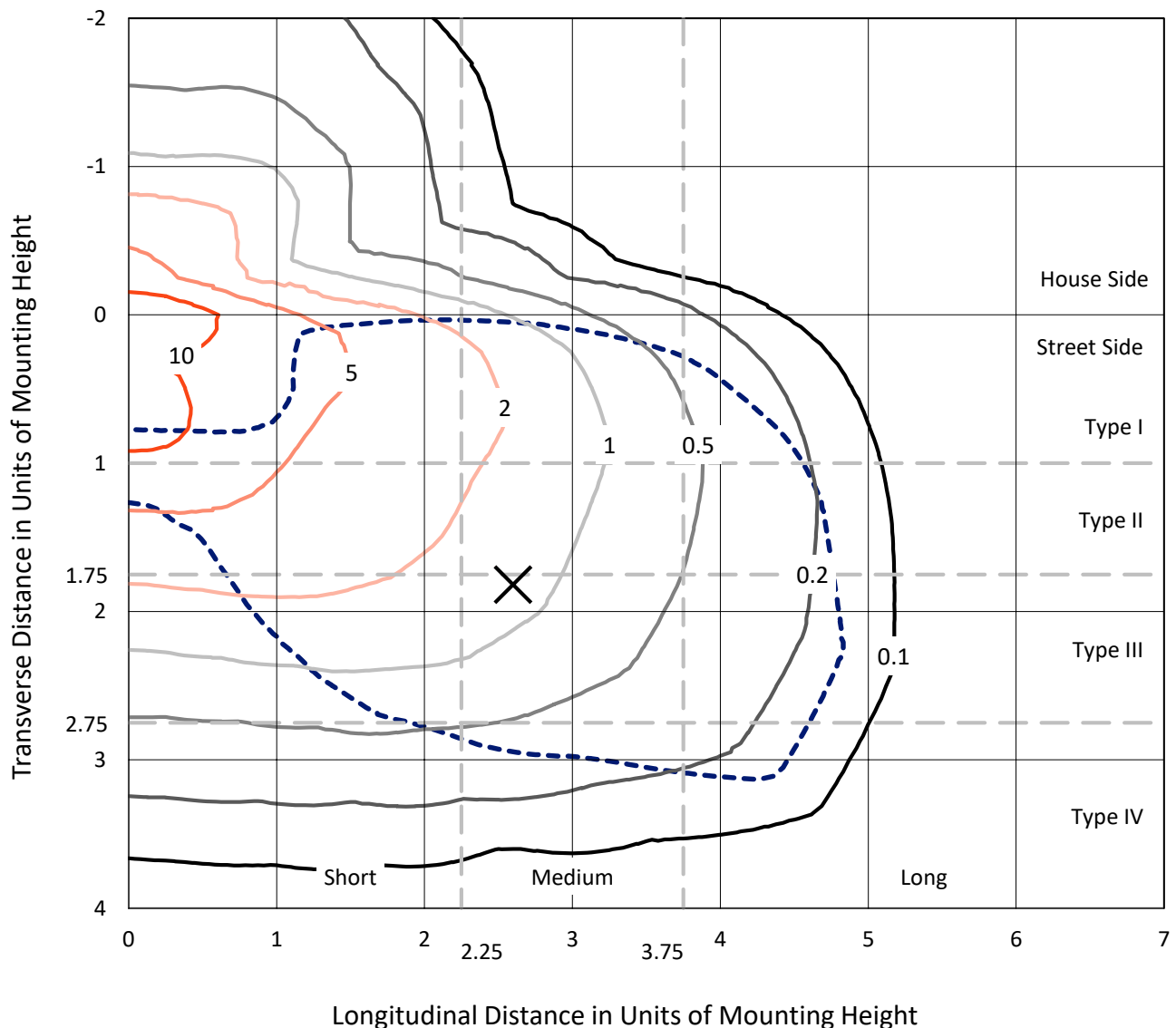


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Iso-Footcandle Lines of Horizontal Illumination

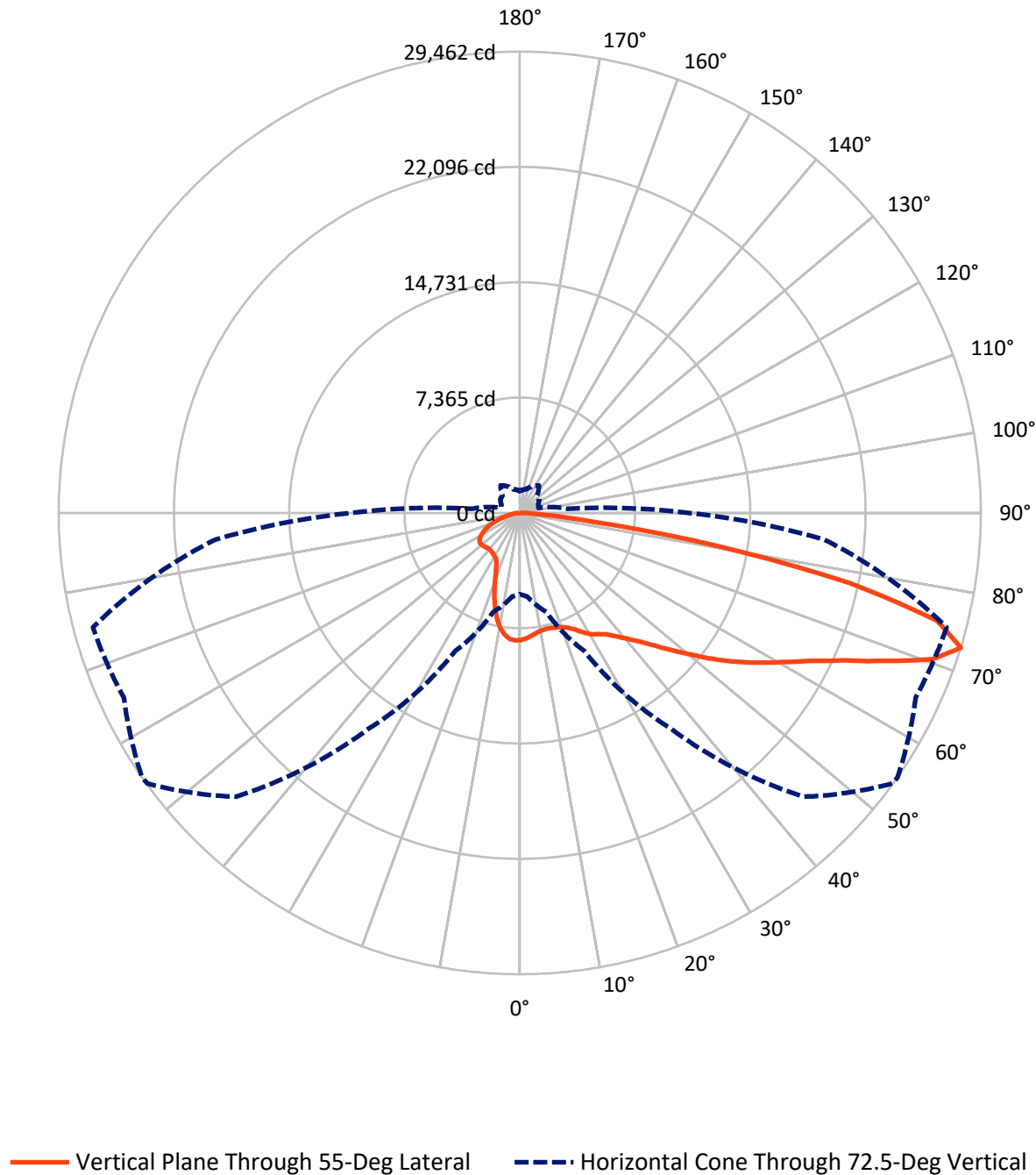
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8560.5	0.0	8560.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37496.5	0.0	37496.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	46057.0	0.0	46057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.1	1.6
10°-20°	1957.0	4.2
20°-30°	3226.7	7.0
30°-40°	4773.1	10.4
40°-50°	6662.2	14.5
50°-60°	8674.4	18.8
60°-70°	10660.6	23.1
70°-80°	8356.6	18.1
80°-90°	1011.3	2.2
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°	46057.0	100.0
0°-180°	46057.0	100.0

Coefficient of Utilization



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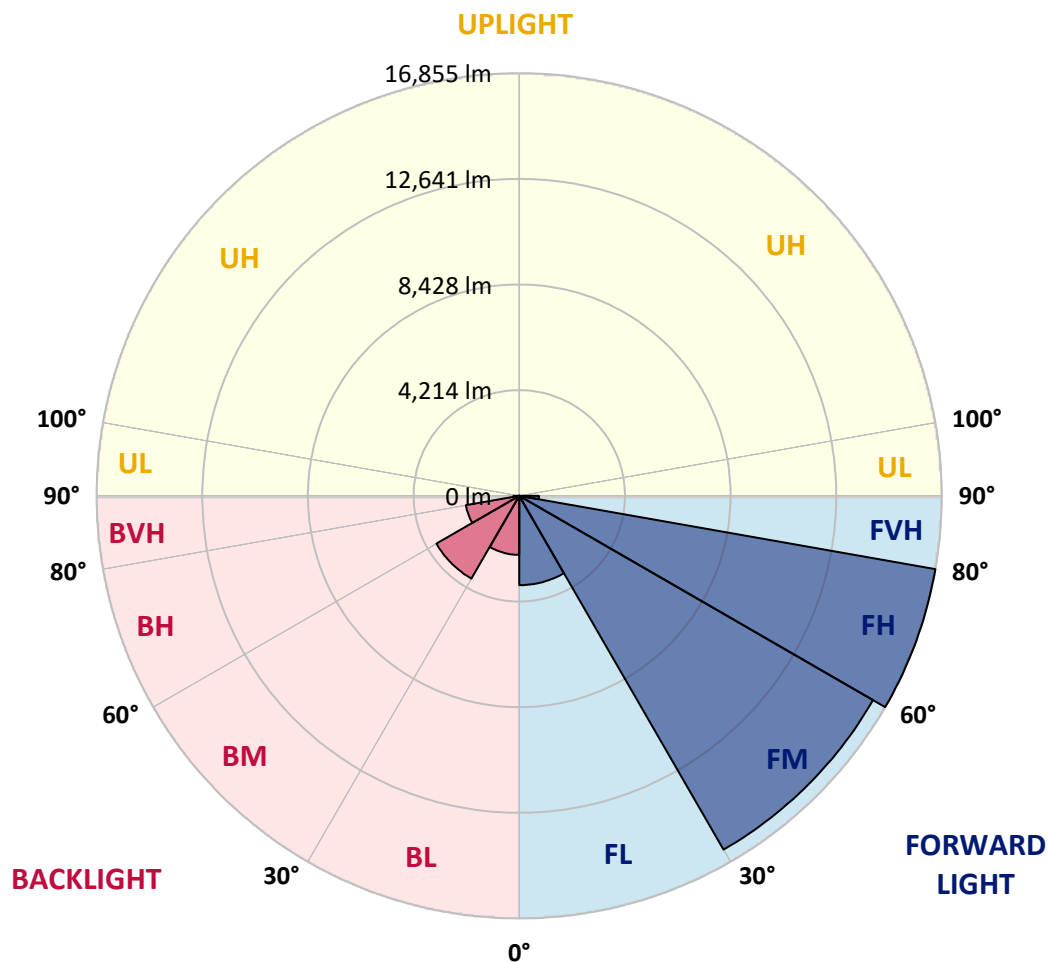
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3563.5	7.7			
FM	(30°-60°)	16295.9	35.4			
FH	(60°-80°)	16855.3	36.6			G5
FVH	(80°-90°)	781.9	1.7			G5
BL	(0°-30°)	2355.3	5.1	B3/2500		
BM	(30°-60°)	3813.8	8.3	B3/5000		
BH	(60°-80°)	2161.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.5			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5
2.5°	7859.0	7840.3	7863.7	7896.3	7932.1	7980.3	8008.3	8020.8	8069.0	8087.7	8128.1
5°	7495.0	7485.7	7524.5	7580.6	7659.9	7771.9	7862.1	7879.2	8006.8	8097.0	8179.5
7.5°	7230.5	7230.5	7275.6	7342.5	7431.2	7582.1	7709.7	7733.0	7949.2	8143.7	8296.1
10°	7020.5	7028.3	7081.2	7160.5	7264.8	7425.0	7594.6	7621.0	7933.7	8252.6	8495.3
12.5°	6880.5	6899.2	6947.4	7019.0	7148.1	7342.5	7557.2	7593.0	7966.3	8408.1	8734.8
15°	6969.2	7000.3	7005.0	7034.5	7106.1	7317.7	7579.0	7616.3	8036.3	8566.8	9007.1
17.5°	7358.1	7369.0	7320.8	7258.5	7224.3	7359.7	7644.3	7683.2	8120.4	8723.9	9268.4
20°	7949.2	7943.0	7838.8	7670.8	7496.5	7518.3	7751.7	7792.1	8233.9	8862.4	9529.7
22.5°	8695.9	8674.2	8513.9	8204.4	7907.2	7782.8	7939.9	7974.1	8405.0	9059.9	9809.8
25°	9601.3	9553.1	9341.5	8926.2	8489.0	8168.6	8223.0	8255.7	8653.9	9280.8	10066.4
27.5°	10556.5	10508.2	10239.1	9736.6	9154.8	8655.5	8613.5	8641.5	8937.1	9444.2	10256.2
30°	11555.2	11503.8	11258.0	10694.9	9861.1	9159.5	8977.5	8988.4	9136.2	9532.9	10411.8
32.5°	12558.5	12510.3	12235.0	11581.6	10628.0	9700.9	9240.4	9226.4	9256.0	9624.6	10587.6
35°	13575.9	13594.6	13272.6	12549.2	11477.4	10302.9	9551.5	9522.0	9456.6	9812.9	10836.5
37.5°	14664.9	14652.4	14235.5	13479.5	12365.6	10956.3	9998.0	9993.3	9767.8	10169.1	11226.9
40°	15392.9	15400.7	15147.1	14431.5	13263.2	11679.6	10570.5	10559.6	10264.0	10702.7	11738.7
42.5°	15677.6	15728.9	15794.2	15340.0	14202.8	12518.1	11253.4	11237.8	10956.3	11468.1	12340.8
45°	15697.8	15800.5	16204.9	16147.4	15154.9	13477.9	12126.1	12082.5	11880.3	12485.4	13059.5
47.5°	15523.6	15629.3	16301.4	16628.1	16005.8	14490.6	13146.6	13112.3	12938.1	13757.9	13837.3
50°	15142.4	15243.6	16102.3	16863.0	16705.8	15464.4	14322.6	14232.4	14139.1	15228.0	14727.1
52.5°	14428.4	14622.9	15836.2	16919.0	17124.3	16329.4	15559.3	15500.2	15551.6	16779.0	15618.5
55°	12737.4	12955.2	15150.2	16872.3	17433.9	17055.9	16796.1	16793.0	17059.0	18406.1	16575.2
57.5°	11790.1	11944.1	13753.3	16793.0	17801.0	17777.7	18020.3	18049.9	18567.9	20178.0	17577.0
60°	11254.9	11416.7	13045.5	16498.9	18370.4	18711.0	19269.5	19328.6	20101.8	22139.6	18782.6
62.5°	10768.0	10945.4	12606.8	15900.0	19040.8	20045.8	20766.0	20818.9	21725.8	24155.7	19947.8
65°	9935.8	10136.4	11964.3	15506.5	19650.6	21786.5	22668.5	22704.3	23591.0	26268.3	20839.1
67.5°	8759.7	8943.3	10752.5	14636.9	20101.8	23900.6	25198.0	25218.2	25440.7	27760.1	21294.9
70°	7386.1	7456.1	9025.7	12841.7	19568.2	25877.8	27970.1	27974.8	27127.0	28715.2	21220.3
72.5°	5189.6	5354.5	6552.3	9721.1	16816.3	25636.7	29409.1	29461.9	27911.0	28233.0	19524.6
75°	3182.8	3357.0	4110.0	5891.1	10668.5	20162.4	27172.1	27539.2	26440.9	25173.1	15949.8
77.5°	2128.1	2193.4	2681.9	3434.8	4833.3	11600.3	20890.5	21581.2	21965.4	18357.9	10200.2
80°	1186.9	1311.4	1778.1	2134.3	2149.9	4609.3	12525.9	12687.7	12221.0	7309.9	3147.0
82.5°	628.5	696.9	1186.9	1253.8	1172.9	1543.2	4668.4	4673.1	3904.6	1960.1	934.9
85°	486.9	544.5	813.6	765.4	598.9	684.5	1540.1	1624.1	1328.5	802.7	304.9
87.5°	242.7	301.8	552.2	485.4	234.9	196.0	550.7	588.0	524.2	314.2	110.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5
2.5°	8143.7	8157.7	8174.8	8156.1	8149.9	8125.0	8083.0	8073.7	8051.9	8053.5	8065.9
5°	8215.2	8238.6	8229.2	8157.7	8072.1	7952.3	7827.9	7722.1	7652.1	7647.4	7642.8
7.5°	8352.1	8367.7	8294.6	8090.8	7851.2	7574.3	7313.0	7084.3	6945.9	6911.6	6903.9
10°	8566.8	8563.7	8363.0	7952.3	7474.8	6980.1	6560.1	6242.7	6057.6	6003.1	5989.1
12.5°	8806.4	8770.6	8386.4	7700.3	6942.7	6256.7	5724.7	5371.6	5178.7	5116.4	5100.9
15°	9053.7	8965.1	8328.8	7323.9	6289.4	5477.3	4918.9	4592.2	4488.0	4453.7	4447.5
17.5°	9284.0	9112.8	8163.9	6813.6	5544.2	4701.1	4265.5	4134.8	4159.7	4204.8	4206.4
20°	9509.5	9212.4	7899.5	6169.6	4758.7	4061.7	3913.9	4010.4	4128.6	4220.4	4232.9
22.5°	9732.0	9282.4	7558.8	5426.0	4055.5	3702.4	3806.6	3982.4	4117.7	4217.3	4234.4
25°	9918.7	9299.5	7089.0	4632.6	3567.0	3567.0	3755.3	3921.7	4055.5	4153.5	4170.6
27.5°	9987.1	9184.4	6426.3	3898.4	3321.3	3504.8	3683.7	3822.2	3935.7	4040.0	4058.6
30°	10013.5	8971.3	5660.9	3308.8	3220.1	3437.9	3587.3	3705.5	3812.8	3910.8	3927.9
32.5°	10018.2	8714.6	4848.9	2974.4	3150.1	3367.9	3467.5	3571.7	3686.8	3725.7	3731.9
35°	10047.8	8411.3	3993.3	2803.2	3084.8	3302.6	3381.9	3456.6	3269.9	3283.9	3296.4
37.5°	10133.3	8111.0	3277.7	2706.8	3042.8	3268.4	3363.3	3092.6	2946.4	2912.1	2907.5
40°	10293.6	7790.6	2747.2	2629.0	3027.2	3285.5	3243.5	2887.2	2635.2	2447.0	2419.0
42.5°	10516.0	7445.2	2408.1	2577.7	3038.1	3367.9	3077.0	2689.7	2271.2	2149.9	2134.3
45°	10766.5	7082.8	2224.5	2541.9	3075.5	3431.7	3042.8	2426.8	2101.6	2009.9	2002.1
47.5°	11009.1	6639.4	2129.6	2526.3	3126.8	3380.4	2898.1	2345.9	2020.8	1972.5	1977.2
50°	11287.6	6239.6	2072.1	2509.2	3171.9	3347.7	2734.8	2303.9	1989.6	2048.8	2111.0
52.5°	11522.5	5825.8	2020.8	2475.0	3189.0	3290.1	2692.8	2311.7	1989.6	2103.2	2162.3
55°	11801.0	5513.1	1961.6	2403.4	3156.4	3126.8	2663.2	2358.3	2013.0	1941.4	1947.6
57.5°	12160.3	5410.5	1896.3	2291.4	3047.5	2888.8	2649.2	2403.4	1999.0	1953.9	1969.4
60°	12658.1	5519.4	1869.9	2145.2	2877.9	2702.1	2650.8	2380.1	1901.0	1823.2	1824.7
62.5°	13132.6	5640.7	1868.3	2053.4	2669.4	2535.7	2615.0	2303.9	1851.2	1806.1	1823.2
65°	13288.1	5517.8	1793.6	1950.8	2434.6	2336.5	2549.7	2223.0	1813.9	1745.4	1742.3
67.5°	13079.7	5136.7	1642.7	1784.3	2165.4	2104.8	2464.1	2126.5	1754.7	1698.7	1689.4
70°	12460.5	4285.7	1456.1	1565.0	1859.0	1843.4	2328.8	2014.5	1675.4	1627.2	1586.7
72.5°	10794.5	3053.7	1227.4	1302.1	1513.6	1563.4	2142.1	1868.3	1563.4	1459.2	1396.9
75°	8865.5	2260.3	1008.0	1023.6	1149.6	1284.9	1885.4	1697.2	1431.2	1253.8	1205.6
77.5°	5429.1	1382.9	802.7	808.9	824.5	1025.2	1552.5	1505.8	1263.2	1045.4	1011.2
80°	1757.9	754.5	580.2	609.8	563.1	751.4	1200.9	1281.8	1084.3	874.3	836.9
82.5°	668.9	440.2	392.0	412.2	390.5	504.0	875.8	1026.7	888.3	718.7	584.9
85°	323.6	248.9	231.8	259.8	241.1	258.2	560.0	756.0	673.6	468.2	435.6
87.5°	115.1	110.4	88.7	119.8	102.7	91.8	171.1	381.1	444.9	322.0	287.8
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)