

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: P317894

Luminaire Tested: **GAN-SA0C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317894
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-SA0C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 52621 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

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

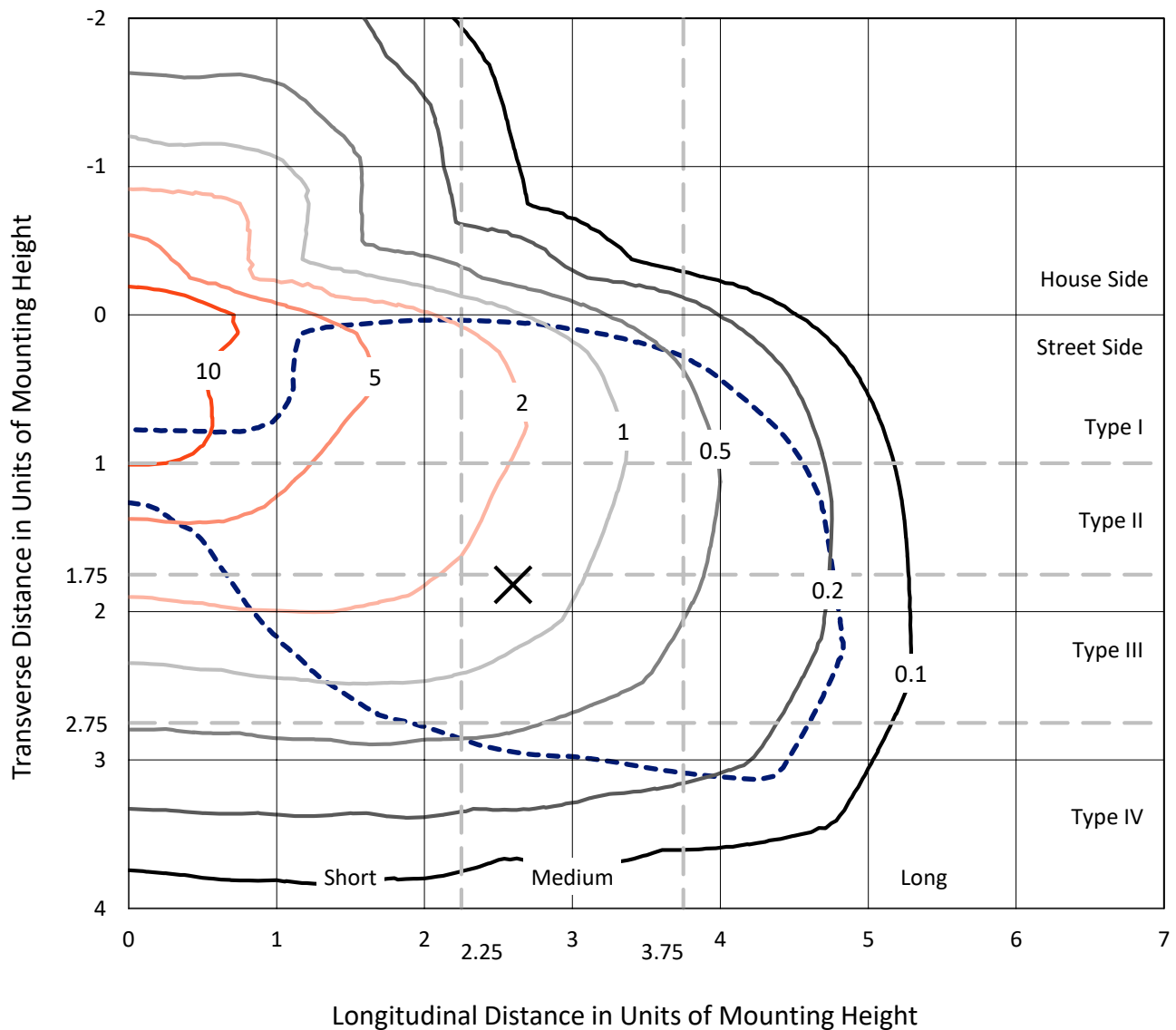


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Iso-Footcandle Lines of Horizontal Illumination

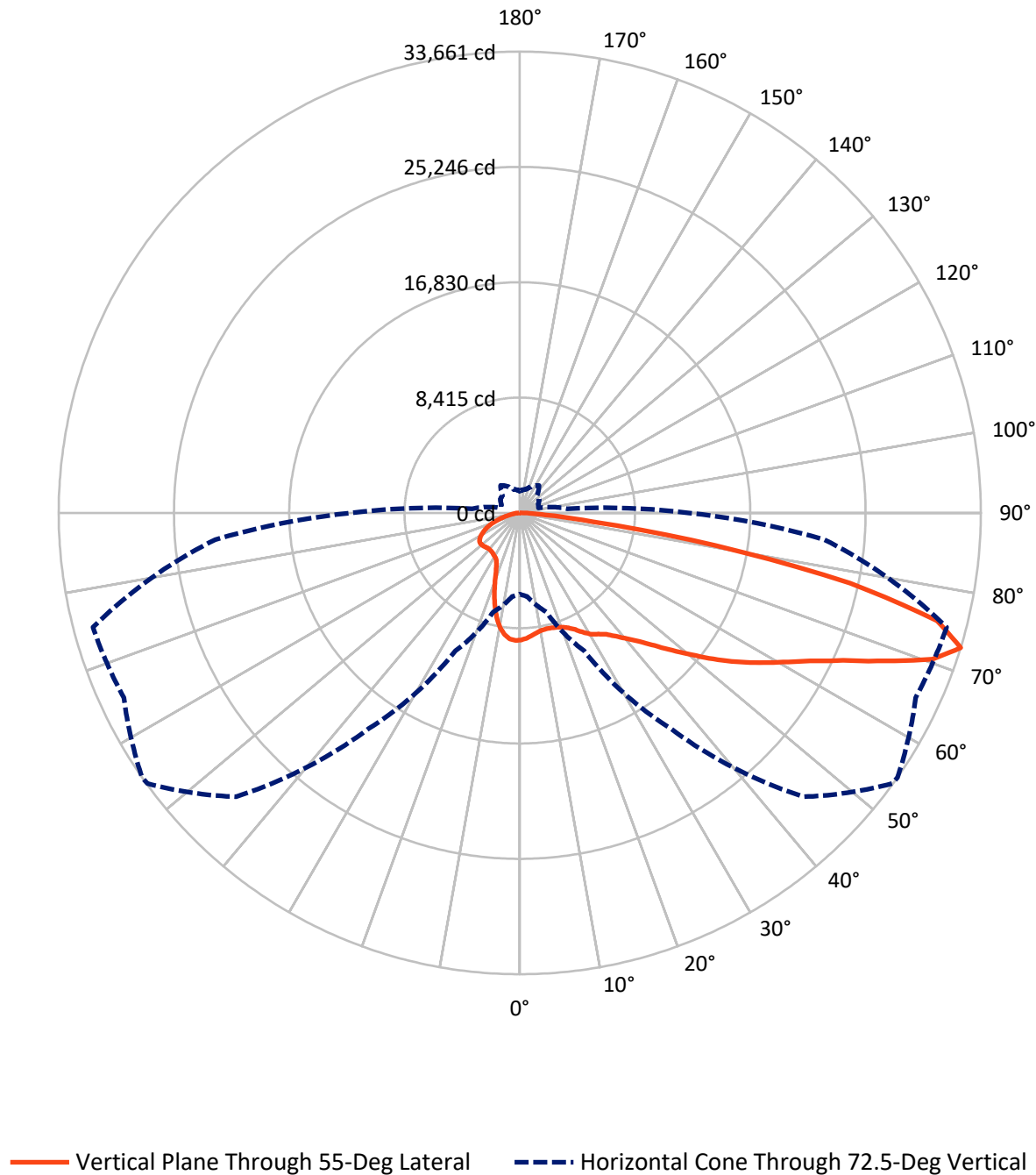
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	9780.5	0.0	9780.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42840.5	0.0	42840.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	52621.0	0.0	52621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.8	1.6
10°-20°	2236.0	4.2
20°-30°	3686.6	7.0
30°-40°	5453.3	10.4
40°-50°	7611.7	14.5
50°-60°	9910.7	18.8
60°-70°	12179.9	23.1
70°-80°	9547.6	18.1
80°-90°	1155.4	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°	52621.0	100.0
0°-180°	52621.0	100.0

Coefficient of Utilization



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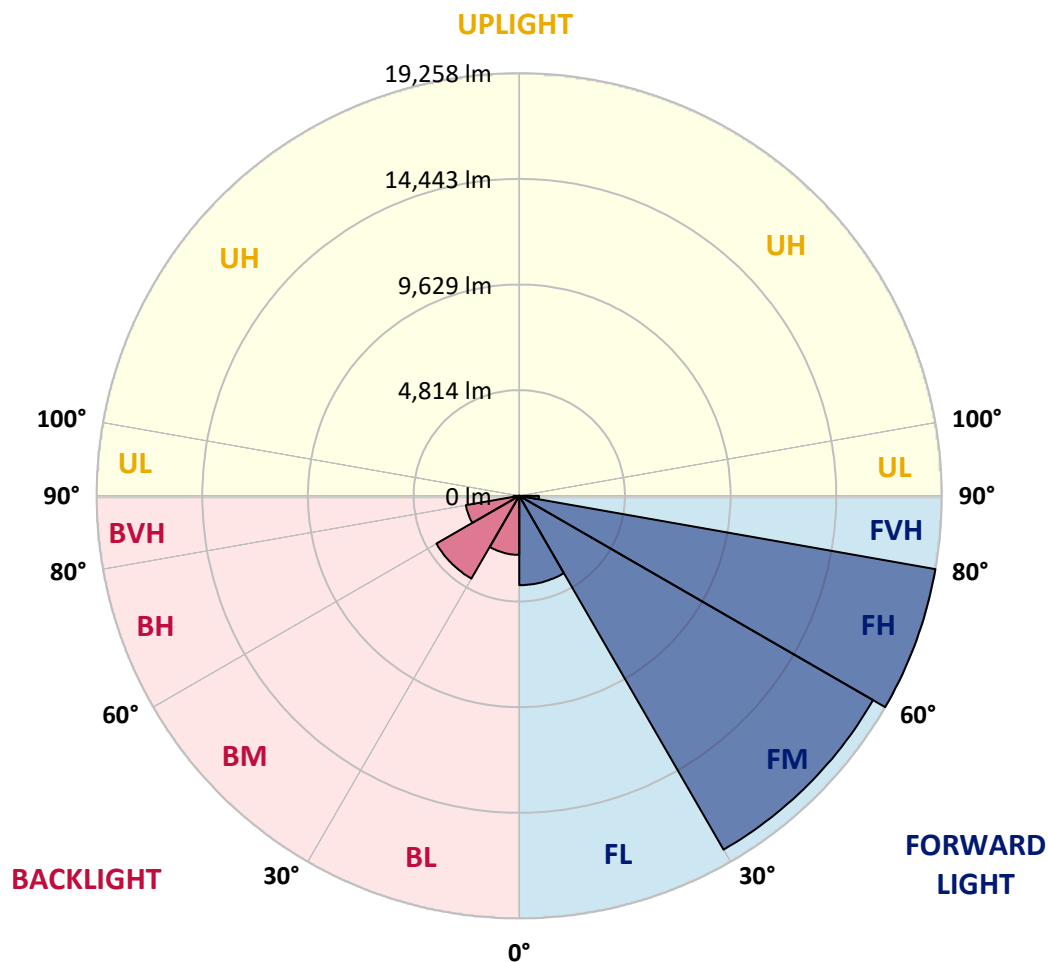
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4071.3	7.7			
FM	(30°-60°)	18618.3	35.4			
FH	(60°-80°)	19257.5	36.6			G5
FVH	(80°-90°)	893.3	1.7			G5
BL	(0°-30°)	2691.0	5.1	B4/5000		
BM	(30°-60°)	4357.4	8.3	B3/5000		
BH	(60°-80°)	2470.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	262.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2
2.5°	8979.1	8957.7	8984.4	9021.7	9062.6	9117.7	9149.7	9163.9	9219.0	9240.3	9286.5
5°	8563.2	8552.5	8596.9	8660.9	8751.6	8879.5	8982.6	9002.2	9147.9	9251.0	9345.2
7.5°	8261.0	8261.0	8312.6	8389.0	8490.3	8662.7	8808.4	8835.1	9082.2	9304.3	9478.5
10°	8021.1	8030.0	8090.4	8181.0	8300.1	8483.2	8676.9	8707.1	9064.4	9428.7	9706.0
12.5°	7861.1	7882.5	7937.6	8019.3	8166.8	8389.0	8634.3	8675.1	9101.7	9606.5	9979.7
15°	7962.4	7998.0	8003.3	8037.1	8118.8	8360.6	8659.1	8701.8	9181.7	9787.8	10290.7
17.5°	8406.8	8419.2	8364.1	8293.0	8253.9	8408.5	8733.8	8778.2	9277.7	9967.3	10589.3
20°	9082.2	9075.0	8956.0	8764.0	8564.9	8589.8	8856.4	8902.6	9407.4	10125.4	10887.9
22.5°	9935.3	9910.4	9727.3	9373.6	9034.2	8892.0	9071.5	9110.6	9602.9	10351.2	11207.8
25°	10969.7	10914.6	10672.9	10198.3	9698.9	9332.8	9395.0	9432.3	9887.3	10603.5	11501.1
27.5°	12061.0	12005.9	11698.4	11124.3	10459.6	9889.1	9841.1	9873.1	10210.8	10790.2	11717.9
30°	13202.0	13143.3	12862.5	12219.1	11266.5	10464.9	10257.0	10269.4	10438.3	10891.5	11895.7
32.5°	14348.4	14293.3	13978.7	13232.2	12142.7	11083.4	10557.3	10541.3	10575.1	10996.3	12096.5
35°	15510.8	15532.1	15164.2	14337.7	13113.1	11771.3	10912.8	10879.0	10804.4	11211.4	12380.9
37.5°	16754.9	16740.7	16264.3	15400.6	14128.0	12517.7	11422.9	11417.6	11159.8	11618.4	12827.0
40°	17586.7	17595.6	17305.9	16488.3	15153.5	13344.2	12077.0	12064.5	11726.8	12228.0	13411.7
42.5°	17911.9	17970.6	18045.2	17526.2	16227.0	14302.2	12857.2	12839.4	12517.7	13102.5	14099.6
45°	17935.0	18052.3	18514.4	18448.7	17314.7	15398.8	13854.3	13804.5	13573.5	14264.8	14920.7
47.5°	17736.0	17856.8	18624.6	18997.9	18286.9	16555.8	15020.2	14981.1	14782.0	15718.7	15809.3
50°	17300.5	17416.0	18397.1	19266.2	19086.7	17668.4	16363.9	16260.8	16154.1	17398.3	16826.0
52.5°	16484.7	16706.9	18093.2	19330.2	19564.8	18656.6	17776.8	17709.3	17768.0	19170.3	17844.4
55°	14552.8	14801.6	17309.4	19276.9	19918.5	19486.6	19189.8	19186.3	19490.2	21029.4	18937.4
57.5°	13470.4	13646.3	15713.4	19186.3	20338.0	20311.3	20588.6	20622.3	21214.2	23053.7	20082.0
60°	12859.0	13043.8	14904.7	18850.4	20988.5	21377.7	22015.8	22083.3	22966.6	25294.9	21459.5
62.5°	12302.7	12505.3	14403.5	18166.1	21754.5	22902.7	23725.6	23786.0	24822.2	27598.4	22790.7
65°	11351.8	11581.1	13669.4	17716.4	22451.2	24891.5	25899.2	25940.1	26953.2	30012.0	23809.1
67.5°	10008.1	10217.9	12284.9	16722.9	22966.6	27306.9	28789.2	28812.3	29066.4	31716.4	24329.9
70°	8438.8	8518.7	10312.1	14671.9	22357.0	29565.9	31956.4	31961.7	30993.1	32807.7	24244.5
72.5°	5929.2	6117.6	7486.1	11106.5	19212.9	29290.4	33600.4	33660.8	31888.8	32256.7	22307.3
75°	3636.4	3835.5	4695.7	6730.7	12188.9	23036.0	31044.6	31464.1	30209.3	28760.7	18223.0
77.5°	2431.4	2506.0	3064.1	3924.3	5522.2	13253.5	23867.8	24656.9	25095.9	20974.3	11653.9
80°	1356.1	1498.3	2031.5	2438.5	2456.3	5266.2	14311.1	14495.9	13962.7	8351.7	3595.5
82.5°	718.0	796.2	1356.1	1432.5	1340.1	1763.1	5333.8	5339.1	4461.1	2239.4	1068.2
85°	556.3	622.1	929.5	874.4	684.3	782.0	1759.6	1855.5	1517.8	917.1	348.4
87.5°	277.3	344.8	631.0	554.5	268.4	223.9	629.2	671.8	599.0	359.0	126.2
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°	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2	9281.2
2.5°	9304.3	9320.3	9339.9	9318.5	9311.4	9283.0	9235.0	9224.3	9199.5	9201.2	9215.5
5°	9386.1	9412.7	9402.1	9320.3	9222.6	9085.7	8943.5	8822.7	8742.7	8737.3	8732.0
7.5°	9542.5	9560.3	9476.7	9243.9	8970.2	8653.8	8355.2	8094.0	7935.8	7896.7	7887.8
10°	9787.8	9784.2	9554.9	9085.7	8540.1	7974.9	7495.0	7132.4	6920.9	6858.7	6842.7
12.5°	10061.5	10020.6	9581.6	8797.8	7932.2	7148.4	6540.6	6137.1	5916.7	5845.6	5827.9
15°	10344.1	10242.7	9515.8	8367.7	7185.7	6258.0	5619.9	5246.7	5127.6	5088.5	5081.4
17.5°	10607.1	10411.6	9327.4	7784.7	6334.4	5371.1	4873.4	4724.1	4752.6	4804.1	4805.9
20°	10864.8	10525.3	9025.3	7048.9	5436.8	4640.6	4471.8	4582.0	4717.0	4821.9	4836.1
22.5°	11119.0	10605.3	8636.0	6199.3	4633.5	4230.0	4349.1	4550.0	4704.6	4818.3	4837.9
25°	11332.2	10624.9	8099.3	5292.9	4075.4	4075.4	4290.5	4480.6	4633.5	4745.5	4765.0
27.5°	11410.5	10493.4	7342.1	4454.0	3794.6	4004.3	4208.7	4366.9	4496.6	4615.7	4637.1
30°	11440.7	10249.9	6467.7	3780.4	3679.1	3927.9	4098.5	4233.6	4356.2	4468.2	4487.8
32.5°	11446.0	9956.6	5539.9	3398.3	3599.1	3847.9	3961.7	4080.7	4212.3	4256.7	4263.8
35°	11479.8	9610.0	4562.4	3202.7	3524.4	3773.3	3863.9	3949.2	3735.9	3751.9	3766.2
37.5°	11577.5	9267.0	3744.8	3092.6	3476.5	3734.2	3842.6	3533.3	3366.3	3327.2	3321.8
40°	11760.6	8900.9	3138.8	3003.7	3458.7	3753.7	3705.7	3298.7	3010.8	2795.7	2763.7
42.5°	12014.7	8506.3	2751.3	2945.0	3471.1	3847.9	3515.6	3073.0	2594.9	2456.3	2438.5
45°	12300.9	8092.2	2541.6	2904.2	3513.8	3920.8	3476.5	2772.6	2401.2	2296.3	2287.4
47.5°	12578.2	7585.6	2433.2	2886.4	3572.4	3862.1	3311.2	2680.2	2308.8	2253.7	2259.0
50°	12896.3	7128.9	2367.4	2866.8	3624.0	3824.8	3124.5	2632.2	2273.2	2340.7	2411.8
52.5°	13164.7	6656.1	2308.8	2827.7	3643.5	3759.1	3076.6	2641.1	2273.2	2402.9	2470.5
55°	13482.8	6298.9	2241.2	2746.0	3606.2	3572.4	3042.8	2694.4	2299.9	2218.1	2225.2
57.5°	13893.4	6181.6	2166.6	2618.0	3481.8	3300.5	3026.8	2746.0	2283.9	2232.3	2250.1
60°	14462.1	6306.0	2136.3	2450.9	3288.1	3087.2	3028.6	2719.3	2171.9	2083.0	2084.8
62.5°	15004.2	6444.6	2134.6	2346.1	3049.9	2897.0	2987.7	2632.2	2115.0	2063.5	2083.0
65°	15181.9	6304.2	2049.3	2228.8	2781.5	2669.5	2913.0	2539.8	2072.4	1994.2	1990.6
67.5°	14943.8	5868.7	1876.9	2038.6	2474.0	2404.7	2815.3	2429.6	2004.8	1940.8	1930.2
70°	14236.4	4896.5	1663.6	1788.0	2123.9	2106.1	2660.7	2301.6	1914.2	1859.1	1812.9
72.5°	12332.9	3488.9	1402.3	1487.6	1729.3	1786.2	2447.4	2134.6	1786.2	1667.1	1596.0
75°	10129.0	2582.5	1151.7	1169.5	1313.4	1468.1	2154.1	1939.1	1635.1	1432.5	1377.4
77.5°	6202.9	1580.0	917.1	924.2	942.0	1171.3	1773.8	1720.5	1443.2	1194.4	1155.3
80°	2008.4	862.0	662.9	696.7	643.4	858.4	1372.1	1464.5	1238.8	998.9	956.2
82.5°	764.3	503.0	447.9	471.0	446.1	575.9	1000.6	1173.0	1014.9	821.1	668.3
85°	369.7	284.4	264.8	296.8	275.5	295.0	639.8	863.8	769.6	535.0	497.7
87.5°	131.5	126.2	101.3	136.9	117.3	104.9	195.5	435.4	508.3	367.9	328.8
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)