

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: P317893

Luminaire Tested: **GAN-SA9C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317893
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-SA9C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 47528 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

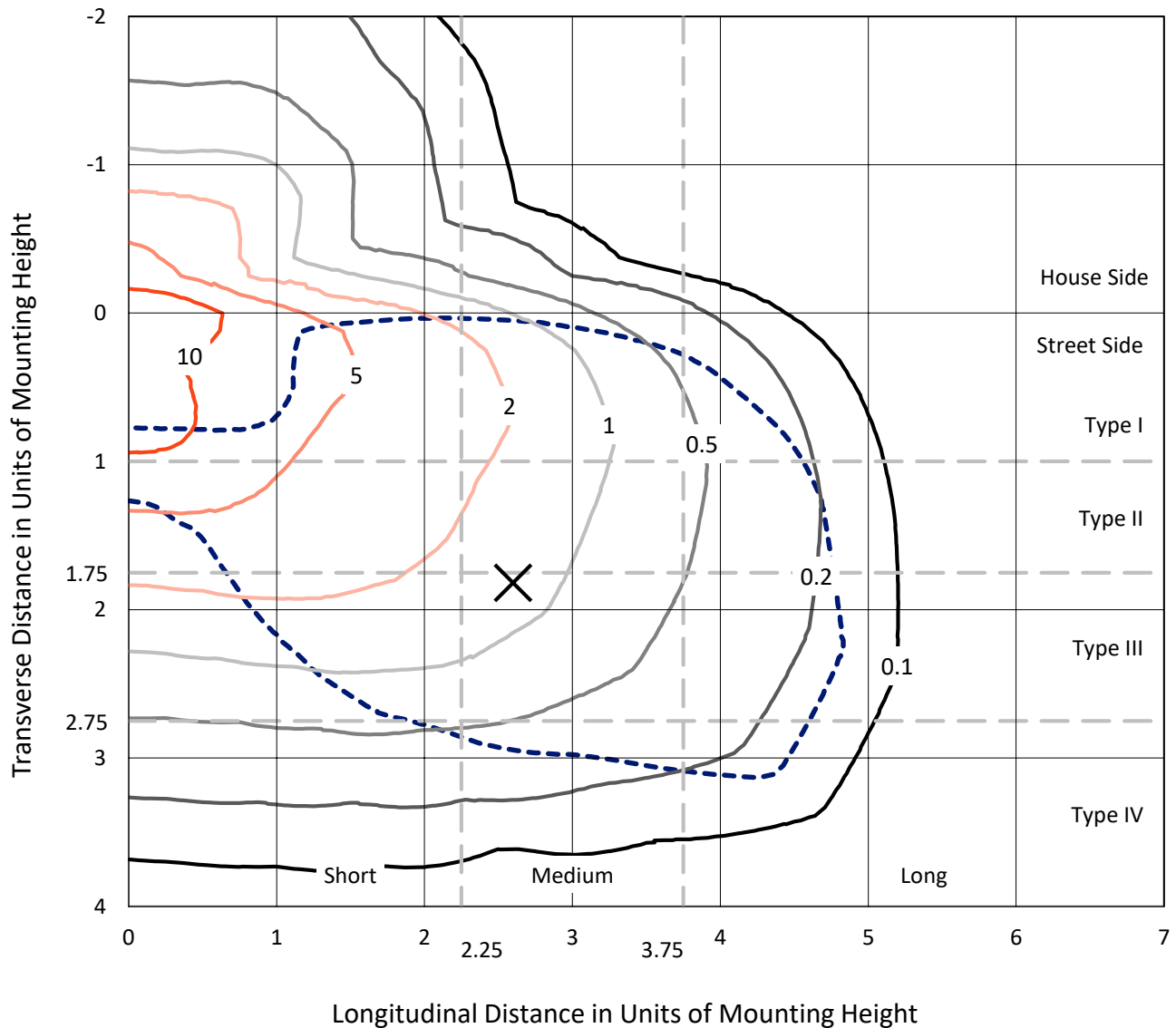
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

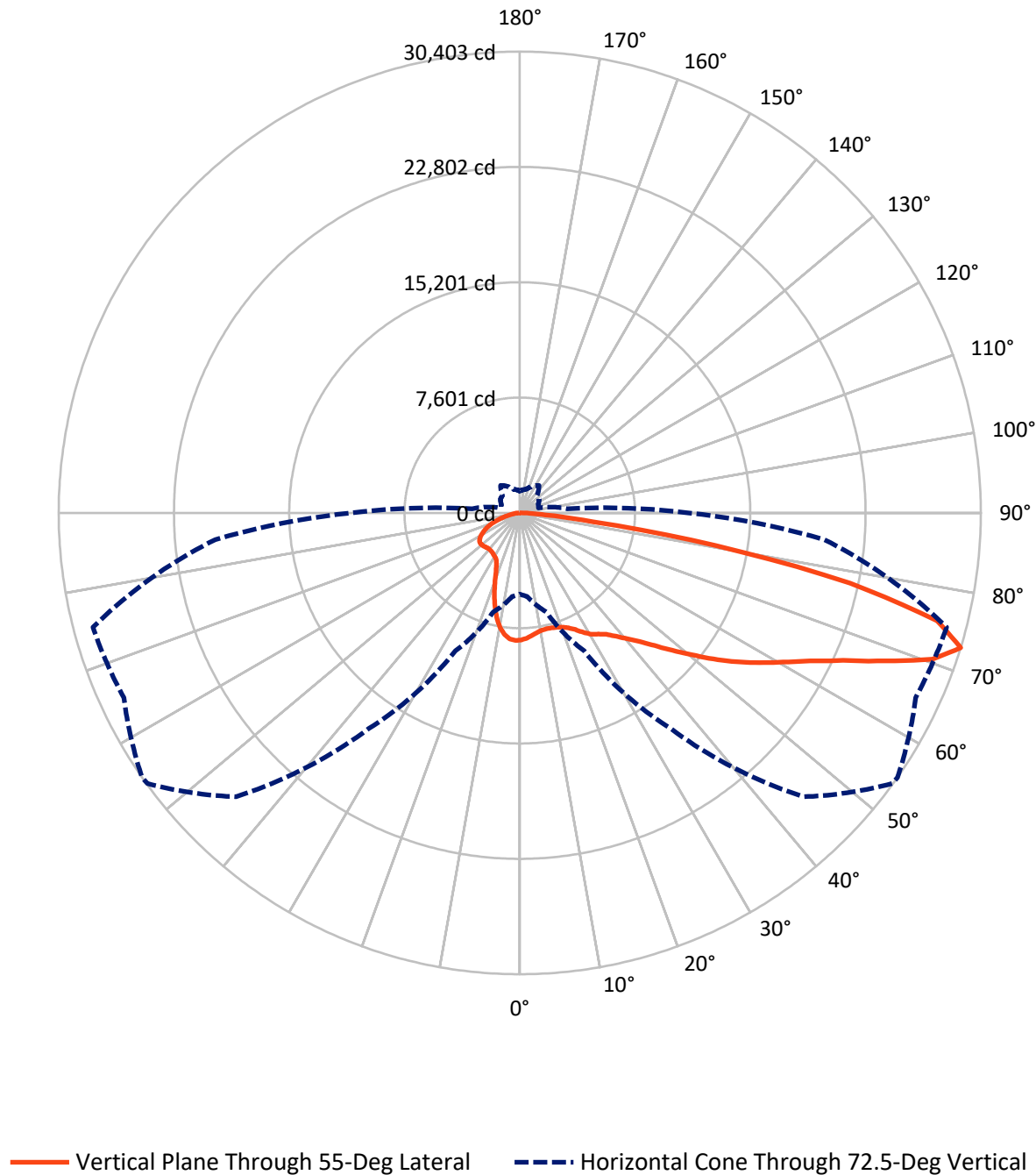
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	8833.9	0.0	8833.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38694.1	0.0	38694.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	47528.0	0.0	47528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.6	1.6
10°-20°	2019.6	4.2
20°-30°	3329.7	7.0
30°-40°	4925.5	10.4
40°-50°	6875.0	14.5
50°-60°	8951.5	18.8
60°-70°	11001.1	23.1
70°-80°	8623.5	18.1
80°-90°	1043.6	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°	47528.0	100.0
0°-180°	47528.0	100.0

Coefficient of Utilization



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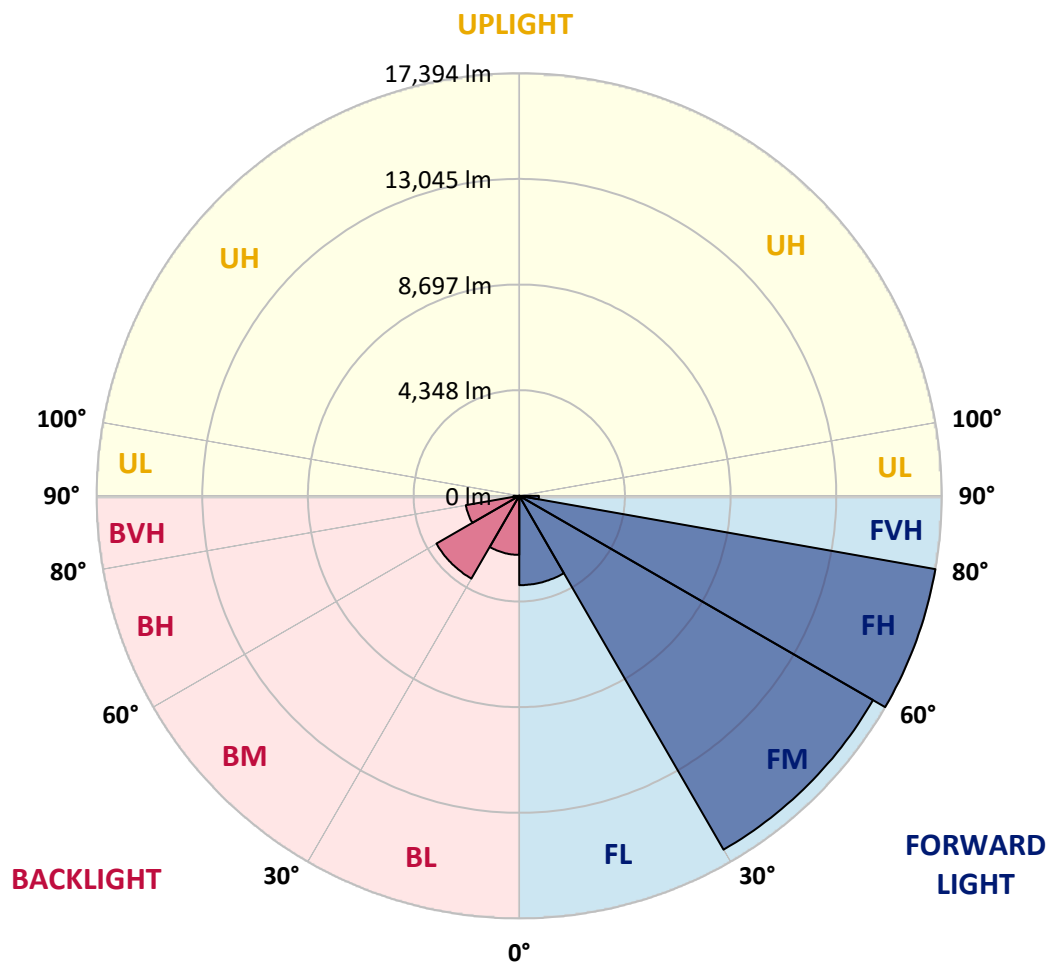
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3677.3	7.7			
FM	(30°-60°)	16816.3	35.4			
FH	(60°-80°)	17393.6	36.6			G5
FVH	(80°-90°)	806.8	1.7			G5
BL	(0°-30°)	2430.6	5.1	B3/2500		
BM	(30°-60°)	3935.6	8.3	B3/5000		
BH	(60°-80°)	2231.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	236.7	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°	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9
2.5°	8110.0	8090.8	8114.8	8148.5	8185.5	8235.2	8264.1	8277.0	8326.7	8346.0	8387.7
5°	7734.4	7724.7	7764.9	7822.7	7904.5	8020.1	8113.2	8130.9	8262.5	8355.6	8440.7
7.5°	7461.5	7461.5	7508.0	7577.1	7668.6	7824.3	7955.9	7980.0	8203.1	8403.8	8561.1
10°	7244.8	7252.8	7307.4	7389.2	7496.8	7662.1	7837.1	7864.4	8187.1	8516.2	8766.6
12.5°	7100.3	7119.5	7169.3	7243.1	7376.4	7577.1	7798.6	7835.5	8220.8	8676.7	9013.8
15°	7191.8	7223.9	7228.7	7259.2	7333.0	7551.4	7821.1	7859.6	8293.0	8840.4	9294.7
17.5°	7593.1	7604.3	7554.6	7490.4	7455.0	7594.7	7888.5	7928.6	8379.7	9002.6	9564.4
20°	8203.1	8196.7	8089.1	7915.8	7736.0	7758.5	7999.2	8041.0	8496.9	9145.4	9834.1
22.5°	8973.7	8951.2	8785.8	8466.4	8159.8	8031.4	8193.5	8228.8	8673.5	9349.3	10123.1
25°	9908.0	9858.2	9639.9	9211.3	8760.2	8429.5	8485.7	8519.4	8930.3	9577.3	10387.9
27.5°	10893.6	10843.9	10566.1	10047.6	9447.2	8931.9	8888.6	8917.5	9222.5	9745.8	10583.8
30°	11924.2	11871.3	11617.6	11036.5	10176.0	9452.1	9264.2	9275.5	9428.0	9837.3	10744.3
32.5°	12959.6	12909.9	12625.7	11951.5	10967.5	10010.7	9535.5	9521.1	9551.6	9932.0	10925.7
35°	14009.5	14028.8	13696.5	12950.0	11844.0	10632.0	9856.6	9826.1	9758.7	10126.3	11182.6
37.5°	15133.2	15120.4	14690.2	13910.0	12760.6	11306.2	10317.3	10312.5	10079.7	10493.9	11585.5
40°	15884.5	15892.5	15630.9	14892.4	13686.9	12052.6	10908.1	10896.8	10591.8	11044.5	12113.7
42.5°	16178.3	16231.3	16298.7	15829.9	14656.5	12917.9	11612.8	11596.7	11306.2	11834.3	12734.9
45°	16199.2	16305.1	16722.5	16663.1	15638.9	13908.4	12513.4	12468.4	12259.7	12884.2	13476.6
47.5°	16019.4	16128.5	16822.0	17159.1	16517.0	14953.4	13566.5	13531.1	13351.3	14197.3	14279.2
50°	15626.1	15730.4	16616.5	17401.5	17239.4	15958.4	14780.1	14687.0	14590.6	15714.4	15197.4
52.5°	14889.2	15089.9	16342.0	17459.3	17671.2	16850.9	16056.3	15995.3	16048.3	17314.8	16117.3
55°	13144.3	13369.0	15634.1	17411.2	17990.7	17600.6	17332.5	17329.3	17603.8	18994.0	17104.6
57.5°	12166.6	12325.6	14192.5	17329.3	18369.5	18345.5	18595.9	18626.4	19161.0	20822.4	18138.4
60°	11614.4	11781.4	13462.1	17025.9	18957.1	19308.6	19884.9	19945.9	20743.8	22846.7	19382.5
62.5°	11111.9	11294.9	13009.4	16407.8	19649.0	20686.0	21429.3	21483.8	22419.7	24927.2	20584.9
65°	10253.1	10460.2	12346.4	16001.7	20278.2	22482.3	23392.5	23429.5	24344.5	27107.2	21504.7
67.5°	9039.5	9228.9	11095.9	15104.3	20743.8	24663.9	26002.8	26023.6	26253.2	28646.7	21975.1
70°	7622.0	7694.2	9314.0	13251.8	20193.2	26704.3	28863.4	28868.2	27993.4	29632.4	21898.0
72.5°	5355.3	5525.5	6761.6	10031.6	17353.4	26455.5	30348.3	30402.9	28802.4	29134.7	20148.2
75°	3284.5	3464.3	4241.2	6079.3	11009.2	20806.4	28039.9	28418.8	27285.4	25977.1	16459.2
77.5°	2196.1	2263.5	2767.6	3544.5	4987.7	11970.8	21557.7	22270.4	22666.9	18944.2	10526.0
80°	1224.8	1353.3	1834.9	2202.5	2218.5	4756.5	12925.9	13092.9	12611.3	7543.3	3247.5
82.5°	648.5	719.2	1224.8	1293.9	1210.4	1592.5	4817.5	4822.3	4029.3	2022.7	964.8
85°	502.5	561.9	839.6	789.8	618.0	706.3	1589.3	1675.9	1370.9	828.3	314.6
87.5°	250.4	311.4	569.9	500.9	242.4	202.3	568.3	606.8	541.0	324.3	114.0
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°	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9	8382.9
2.5°	8403.8	8418.2	8435.9	8416.6	8410.2	8384.5	8341.2	8331.5	8309.1	8310.7	8323.5
5°	8477.6	8501.7	8492.1	8418.2	8329.9	8206.3	8077.9	7968.7	7896.5	7891.7	7886.9
7.5°	8618.9	8634.9	8559.5	8349.2	8102.0	7816.2	7546.6	7310.6	7167.7	7132.4	7124.4
10°	8840.4	8837.2	8630.1	8206.3	7713.5	7203.0	6769.6	6442.1	6251.1	6194.9	6180.4
12.5°	9087.6	9050.7	8654.2	7946.3	7164.5	6456.5	5907.5	5543.1	5344.1	5279.9	5263.8
15°	9342.9	9251.4	8594.8	7557.8	6490.3	5652.3	5076.0	4738.9	4631.3	4596.0	4589.6
17.5°	9580.5	9403.9	8424.7	7031.2	5721.3	4851.2	4401.8	4266.9	4292.6	4339.1	4340.8
20°	9813.2	9506.6	8151.8	6366.7	4910.6	4191.5	4039.0	4138.5	4260.5	4355.2	4368.0
22.5°	10042.8	9578.9	7800.2	5599.3	4185.0	3820.6	3928.2	4109.6	4249.2	4352.0	4369.6
25°	10235.4	9596.5	7315.4	4780.6	3681.0	3681.0	3875.2	4047.0	4185.0	4286.2	4303.8
27.5°	10306.1	9477.7	6631.5	4022.9	3427.3	3616.8	3801.4	3944.2	4061.4	4169.0	4188.2
30°	10333.4	9257.8	5841.7	3414.5	3323.0	3547.7	3701.8	3823.8	3934.6	4035.7	4053.4
32.5°	10338.2	8992.9	5003.7	3069.3	3250.7	3475.5	3578.2	3685.8	3804.6	3844.7	3851.1
35°	10368.7	8679.9	4120.8	2892.8	3183.3	3408.1	3489.9	3567.0	3374.4	3388.8	3401.6
37.5°	10457.0	8370.1	3382.4	2793.2	3140.0	3372.8	3470.7	3191.4	3040.5	3005.1	3000.3
40°	10622.3	8039.4	2835.0	2713.0	3123.9	3390.4	3347.1	2979.5	2719.4	2525.1	2496.3
42.5°	10851.9	7683.0	2485.0	2660.0	3135.2	3475.5	3175.3	2775.6	2343.7	2218.5	2202.5
45°	11110.3	7309.0	2295.6	2623.1	3173.7	3541.3	3140.0	2504.3	2168.8	2074.1	2066.0
47.5°	11360.8	6851.5	2197.7	2607.0	3226.7	3488.3	2990.7	2420.8	2085.3	2035.5	2040.3
50°	11648.1	6438.9	2138.3	2589.4	3273.2	3454.6	2822.1	2377.5	2053.2	2114.2	2178.4
52.5°	11890.5	6011.9	2085.3	2554.0	3290.9	3395.2	2778.8	2385.5	2053.2	2170.4	2231.4
55°	12177.9	5689.2	2024.3	2480.2	3257.2	3226.7	2748.3	2433.6	2077.3	2003.4	2009.8
57.5°	12548.7	5583.3	1956.9	2364.6	3144.8	2981.1	2733.8	2480.2	2062.8	2016.3	2032.3
60°	13062.4	5695.6	1929.6	2213.7	2969.8	2788.4	2735.4	2456.1	1961.7	1881.4	1883.0
62.5°	13552.0	5820.8	1928.0	2119.0	2754.7	2616.7	2698.5	2377.5	1910.3	1863.8	1881.4
65°	13712.5	5694.0	1850.9	2013.1	2512.3	2411.2	2631.1	2294.0	1871.8	1801.2	1797.9
67.5°	13497.4	5300.7	1695.2	1841.3	2234.6	2172.0	2542.8	2194.5	1810.8	1753.0	1743.4
70°	12858.5	4422.6	1502.6	1614.9	1918.3	1902.3	2403.1	2078.9	1728.9	1679.2	1637.4
72.5°	11139.2	3151.2	1266.6	1343.6	1562.0	1613.3	2210.5	1928.0	1613.3	1505.8	1441.6
75°	9148.6	2332.5	1040.2	1056.3	1186.3	1326.0	1945.6	1751.4	1476.9	1293.9	1244.1
77.5°	5602.5	1427.1	828.3	834.8	850.8	1057.9	1602.1	1553.9	1303.5	1078.8	1043.4
80°	1814.0	778.6	598.8	629.3	581.1	775.4	1239.3	1322.8	1118.9	902.2	863.7
82.5°	690.3	454.3	404.5	425.4	402.9	520.1	903.8	1059.5	916.6	741.7	603.6
85°	333.9	256.8	239.2	268.1	248.8	266.5	577.9	780.2	695.1	483.2	449.5
87.5°	118.8	114.0	91.5	123.6	106.0	94.7	176.6	393.3	459.1	332.3	297.0
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)