

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: P318333

Luminaire Tested: **GAN-SA9C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52892 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

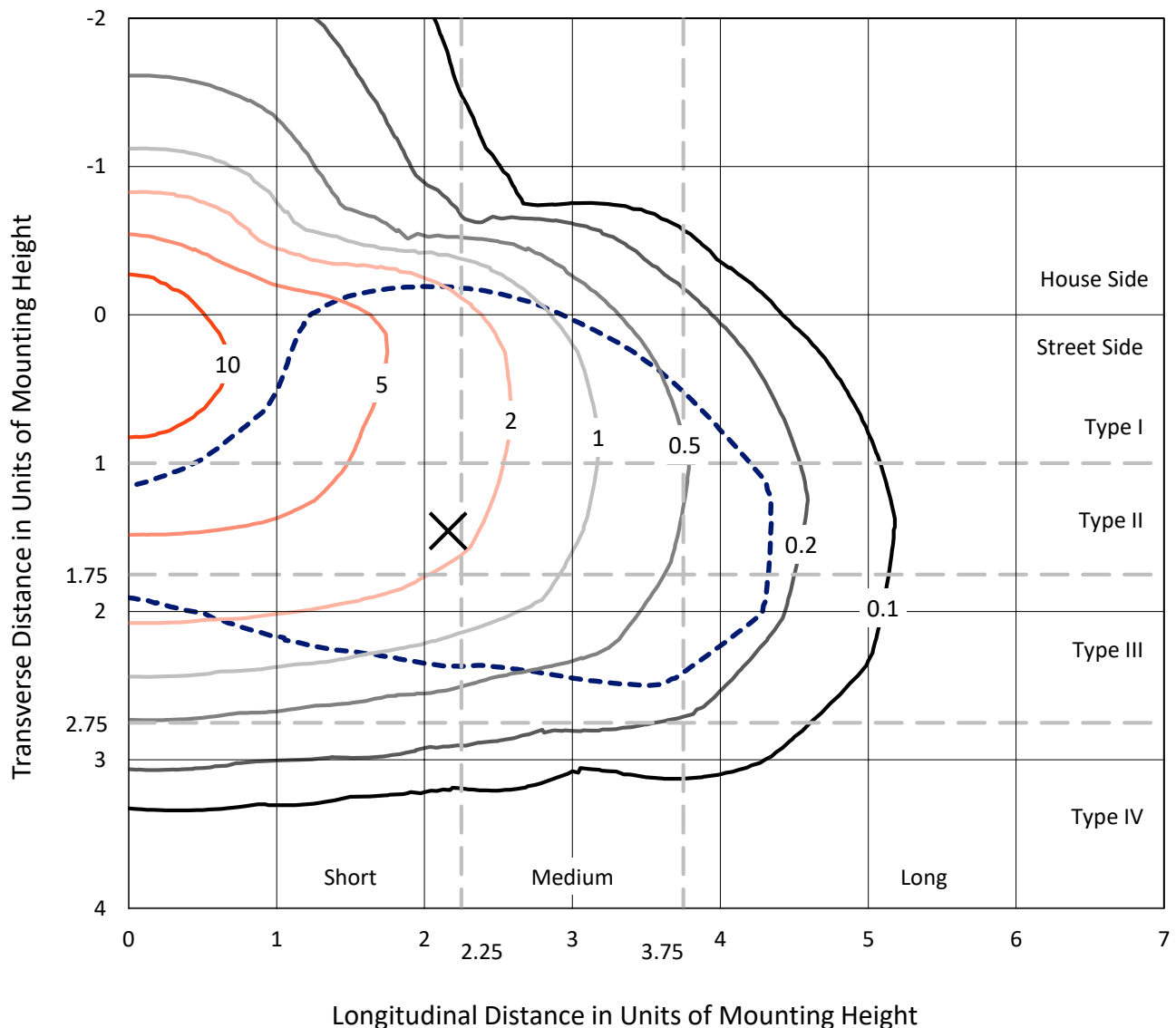
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

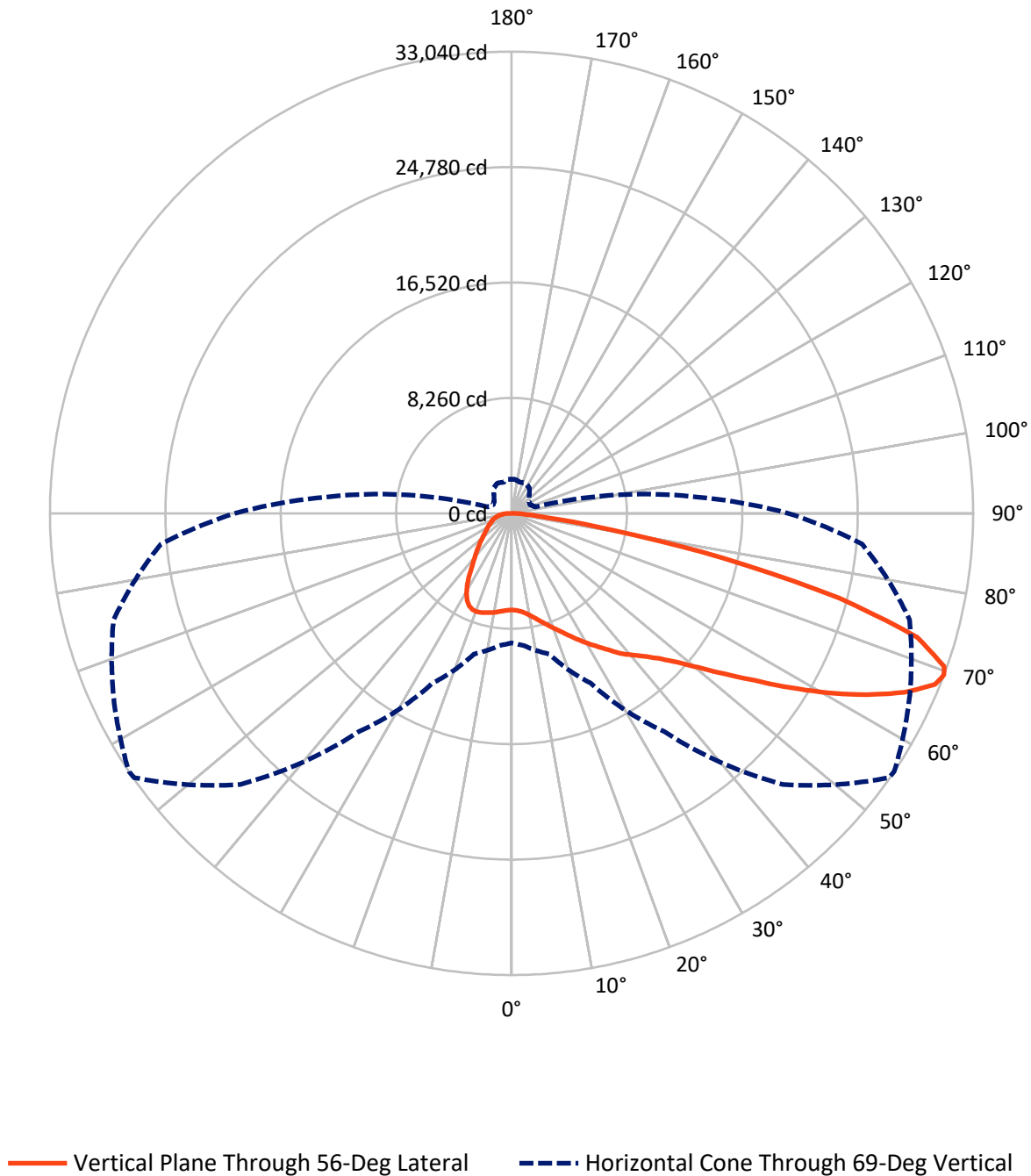
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11779.0	0.0	11779.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	41113.0	0.0	41113.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	52892.0	0.0	52892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.1	1.3
10°-20°	2183.9	4.1
20°-30°	3812.2	7.2
30°-40°	5476.1	10.4
40°-50°	7578.6	14.3
50°-60°	11103.7	21.0
60°-70°	13537.5	25.6
70°-80°	7484.4	14.2
80°-90°	1036.6	2.0
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°	52892.0	100.0
0°-180°	52892.0	100.0

Coefficient of Utilization



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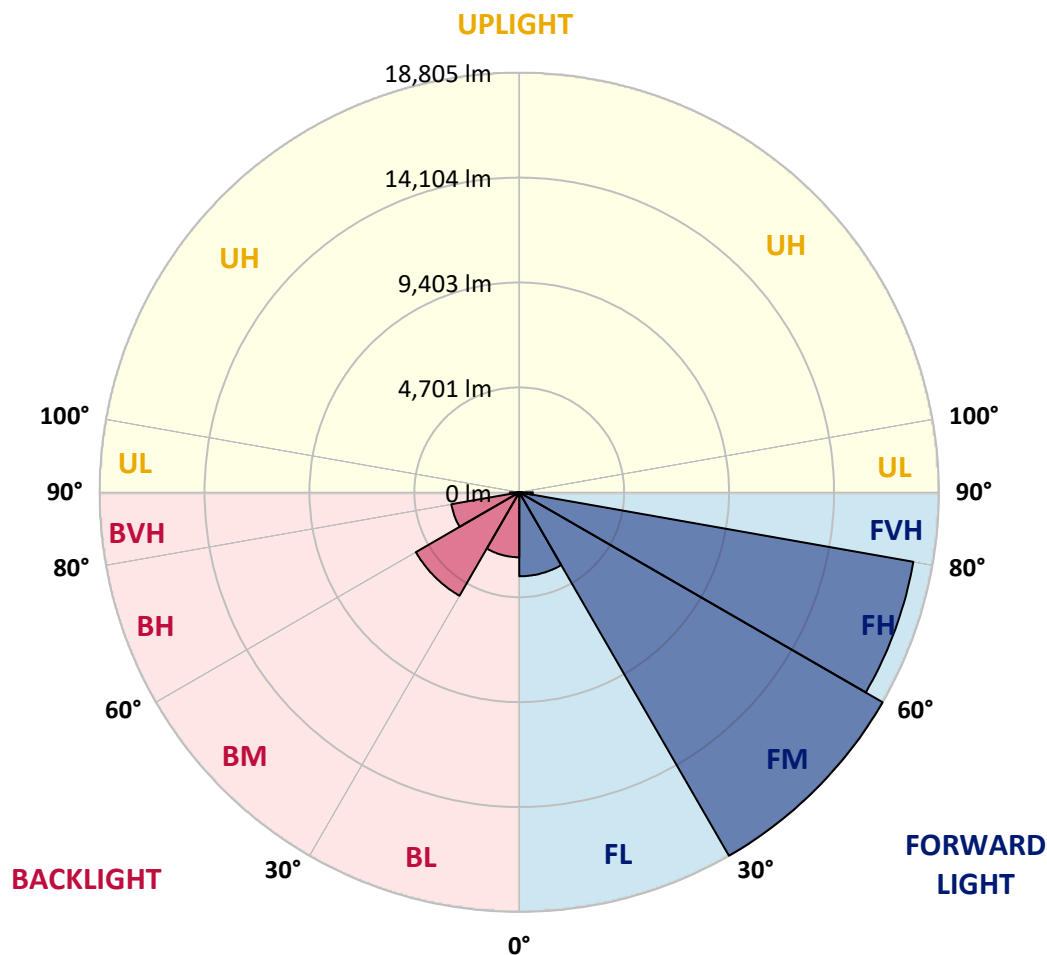
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3764.3	7.1			
FM	(30°-60°)	18805.1	35.6			
FH	(60°-80°)	17933.0	33.9			G5
FVH	(80°-90°)	610.6	1.2			G4/750
BL	(0°-30°)	2910.8	5.5	B4/5000		
BM	(30°-60°)	5353.3	10.1	B4/8500		
BH	(60°-80°)	3088.8	5.8	B4/5000		G4/5000
BVH	(80°-90°)	426.0	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8
2.5°	6958.6	6965.9	6960.4	6975.0	6958.6	6969.5	6960.4	6960.4	6954.9	6938.5	6920.3
5°	7067.9	7082.5	7073.4	7087.9	7067.9	7071.5	7055.1	7055.1	7038.7	7004.1	6967.7
7.5°	7239.2	7255.6	7248.3	7262.9	7235.5	7235.5	7213.7	7211.8	7179.0	7122.6	7080.6
10°	7443.2	7465.1	7457.8	7479.7	7457.8	7465.1	7443.2	7443.2	7399.5	7319.3	7266.5
12.5°	7740.2	7767.6	7747.5	7745.7	7736.6	7751.2	7733.0	7729.3	7689.2	7579.9	7507.0
15°	8137.5	8166.6	8124.7	8121.1	8070.0	8064.6	8064.6	8059.1	8033.6	7902.4	7782.1
17.5°	8594.8	8603.9	8567.5	8509.2	8443.6	8401.7	8396.2	8410.8	8410.8	8257.7	8066.4
20°	9043.0	9059.4	9030.3	8964.7	8880.9	8818.9	8775.2	8804.3	8802.5	8620.3	8348.8
22.5°	9531.4	9569.6	9525.9	9442.1	9343.7	9274.4	9197.9	9223.4	9225.2	9001.1	8625.8
25°	10163.6	10129.0	10101.7	9983.2	9842.9	9771.9	9700.8	9726.3	9719.0	9411.1	8911.8
27.5°	10723.0	10730.3	10693.8	10568.1	10406.0	10249.3	10245.6	10262.0	10234.7	9837.5	9181.5
30°	11373.5	11377.1	11326.1	11213.1	11036.4	10834.1	10786.8	10814.1	10755.8	10242.0	9465.8
32.5°	12020.3	12038.6	11982.1	11845.4	11703.3	11457.3	11362.6	11380.8	11235.0	10655.6	9759.1
35°	12587.0	12612.5	12594.3	12503.2	12348.3	12136.9	12024.0	12013.0	11832.7	11162.1	10147.2
37.5°	13164.6	13188.3	13168.2	13091.7	13029.8	12805.7	12745.5	12745.5	12432.1	11679.6	10641.0
40°	13758.6	13795.0	13771.4	13665.7	13612.8	13510.8	13366.9	13332.2	12993.3	12300.9	11446.4
42.5°	14310.7	14358.1	14452.8	14390.9	14283.4	14297.9	14008.2	13990.0	13742.2	13219.3	12457.6
45°	15094.2	15163.4	15323.8	15276.4	15254.5	15174.4	14830.0	14813.6	14718.8	14454.6	13713.1
47.5°	15948.8	16043.5	16333.2	16342.3	16577.4	16426.1	15957.9	15901.4	15923.2	15934.2	15245.4
50°	16735.9	16839.8	17315.3	17539.4	18093.4	18126.2	17377.3	17326.3	17411.9	17663.3	17031.1
52.5°	17364.5	17495.7	18089.7	18782.1	19731.4	20001.1	19124.7	19086.4	19150.2	19583.8	19050.0
55°	17825.5	17967.6	18614.5	19875.4	21391.3	21866.9	21136.2	21099.8	21139.9	21692.0	21245.6
57.5°	17933.0	17967.6	18906.0	20611.5	22792.5	23935.0	23597.9	23525.0	23328.2	23809.3	23669.0
60°	17428.3	17566.8	18665.5	20870.2	23876.7	25973.9	26170.7	26079.6	25527.5	25921.1	25808.1
62.5°	16404.3	16652.1	17767.2	20476.7	24301.2	27639.3	28694.3	28585.0	27633.8	27888.9	27345.9
65°	14731.6	14837.3	16008.9	19119.2	23761.9	28705.2	30944.6	30889.9	29692.8	29293.7	27630.2
67.5°	11739.7	11938.3	12933.2	16282.2	21555.3	28579.5	32684.7	32679.2	31037.5	29814.9	26622.6
69°	9274.4	9480.3	10427.8	13412.4	19073.6	27429.7	32976.2	33040.0	31416.5	29497.8	25183.1
70°	7394.0	7632.7	8283.2	11297.0	16870.7	25913.8	32733.9	32848.6	31343.6	28974.9	23854.8
72.5°	3146.8	3339.9	3802.7	5823.4	10282.1	19350.6	29929.7	30363.3	29654.5	26518.7	19715.0
75°	1373.9	1434.0	1643.5	2374.2	4564.3	10531.7	23446.7	24248.4	25356.2	22415.4	14686.0
77.5°	1005.8	1031.3	1146.1	1393.9	2048.0	3977.6	15077.8	15544.3	18286.5	16311.4	9008.4
80°	778.0	796.3	885.5	1024.0	1337.4	1608.9	6876.6	7277.4	10282.1	8378.0	3751.7
82.5°	619.5	632.3	694.2	754.3	923.8	974.8	2283.1	2532.7	3795.4	2314.1	993.0
85°	575.8	590.4	612.2	550.3	592.2	572.1	987.6	1033.1	1146.1	909.2	415.4
87.5°	260.6	307.9	606.8	428.2	315.2	251.4	404.5	422.7	475.6	477.4	184.0
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°	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8
2.5°	6931.2	6925.8	6934.9	6913.0	6940.3	6938.5	6929.4	6933.1	6951.3	6949.5	6951.3
5°	6973.1	6969.5	6980.4	6964.0	6996.8	7007.8	7009.6	7026.0	7046.0	7051.5	7051.5
7.5°	7078.8	7078.8	7084.3	7062.4	7084.3	7082.5	7073.4	7089.8	7109.8	7111.6	7109.8
10°	7261.0	7262.9	7253.7	7197.3	7179.0	7129.8	7084.3	7086.1	7111.6	7131.7	7137.1
12.5°	7490.6	7483.3	7443.2	7339.4	7262.9	7162.6	7115.3	7113.4	7138.9	7155.3	7160.8
15°	7753.0	7733.0	7629.1	7459.6	7324.8	7226.4	7149.9	7131.7	7117.1	7098.9	7100.7
17.5°	8000.8	7955.2	7782.1	7547.1	7405.0	7273.8	7126.2	7007.8	6925.8	6878.4	6863.8
20°	8252.2	8163.0	7913.3	7629.1	7448.7	7210.0	6925.8	6685.2	6535.8	6466.6	6453.8
22.5°	8481.8	8337.9	8035.4	7714.7	7414.1	6995.0	6548.6	6198.8	5991.0	5898.1	5905.4
25°	8705.9	8505.5	8163.0	7774.9	7239.2	6616.0	6023.8	5593.8	5353.3	5249.4	5245.8
27.5°	8902.7	8675.0	8301.4	7725.7	6913.0	6076.7	5402.5	4983.4	4783.0	4693.7	4679.1
30°	9128.7	8888.2	8485.5	7538.0	6435.6	5453.5	4795.7	4500.6	4358.4	4269.2	4252.8
32.5°	9403.8	9177.9	8636.7	7197.3	5825.2	4803.0	4322.0	4116.1	3986.7	3886.5	3868.3
35°	9804.7	9560.5	8675.0	6708.9	5154.7	4289.2	3974.0	3762.6	3587.7	3458.3	3445.6
37.5°	10307.6	10039.7	8587.5	6076.7	4504.2	3955.8	3684.3	3423.7	3195.9	3013.7	2984.6
40°	11032.8	10628.3	8345.2	5347.8	4025.0	3698.8	3401.8	3104.8	2822.4	2609.2	2567.3
42.5°	11903.7	11318.8	7973.5	4622.6	3673.3	3438.3	3121.2	2753.2	2483.5	2332.3	2310.4
45°	13011.5	12036.7	7457.8	3988.6	3327.1	3177.7	2818.8	2479.9	2312.2	2201.1	2182.9
47.5°	14276.1	12842.1	6916.7	3472.9	3033.8	2933.6	2576.4	2357.8	2224.8	2137.3	2120.9
50°	15830.3	13751.3	6342.7	3050.2	2738.6	2640.2	2461.6	2290.4	2184.7	2117.3	2100.9
52.5°	17583.2	14777.2	5929.1	2716.7	2494.4	2423.4	2401.5	2253.9	2168.3	2117.3	2100.9
55°	19470.9	15821.2	5482.7	2436.1	2283.1	2303.1	2361.4	2257.6	2199.3	2137.3	2113.6
57.5°	21360.4	16899.9	4985.2	2199.3	2115.4	2213.8	2334.1	2264.9	2215.7	2155.5	2133.7
60°	22854.5	17583.2	4214.5	2000.7	1982.4	2115.4	2268.5	2210.2	2146.4	2148.2	2144.6
62.5°	23552.3	17546.7	3363.6	1823.9	1849.4	1982.4	2162.8	2124.6	2071.7	2142.8	2148.2
65°	23160.6	16672.1	2618.3	1663.6	1707.3	1844.0	2053.5	2082.6	2100.9	2237.5	2255.7
67.5°	21517.1	14970.3	2028.0	1523.3	1577.9	1749.2	2064.4	2268.5	2292.2	2436.1	2434.3
69°	19817.1	13374.1	1762.0	1450.4	1514.2	1772.9	2206.6	2386.9	2297.7	2450.7	2428.8
70°	18392.2	12111.4	1619.8	1401.2	1485.0	1814.8	2301.3	2385.1	2270.3	2401.5	2365.1
72.5°	14164.9	8713.2	1373.9	1310.1	1386.6	1736.5	2328.6	2332.3	2206.6	2232.1	2170.1
75°	9715.4	5506.4	1198.9	1186.2	1237.2	1565.2	2241.2	2228.4	2040.7	2004.3	1953.3
77.5°	5356.9	2796.9	1018.5	1067.7	1102.4	1386.6	2037.1	2018.9	1864.0	1787.5	1769.2
80°	2066.3	1224.4	860.0	949.3	971.2	1200.8	1785.6	1769.2	1639.9	1541.5	1514.2
82.5°	779.9	641.4	710.6	821.8	814.5	991.2	1512.3	1503.2	1377.5	1233.6	1189.8
85°	360.8	384.5	563.0	677.8	625.0	734.3	1209.9	1226.3	1073.2	901.9	901.9
87.5°	153.1	215.0	399.0	512.0	420.9	495.6	887.4	847.3	778.0	539.3	506.5
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)