

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: P320884

Luminaire Tested: **GAN-SA0B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320884
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-SA0B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48530 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

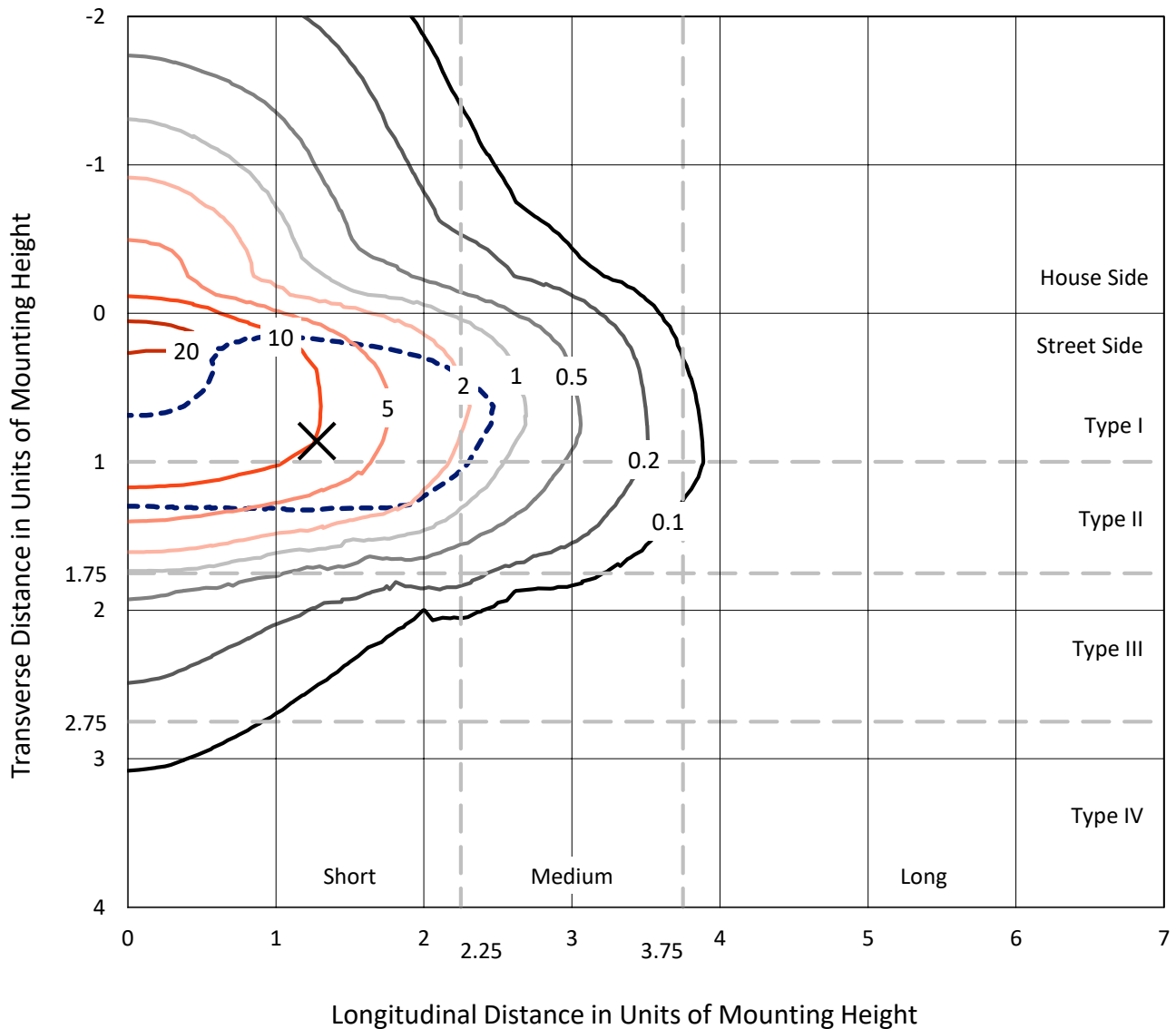
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

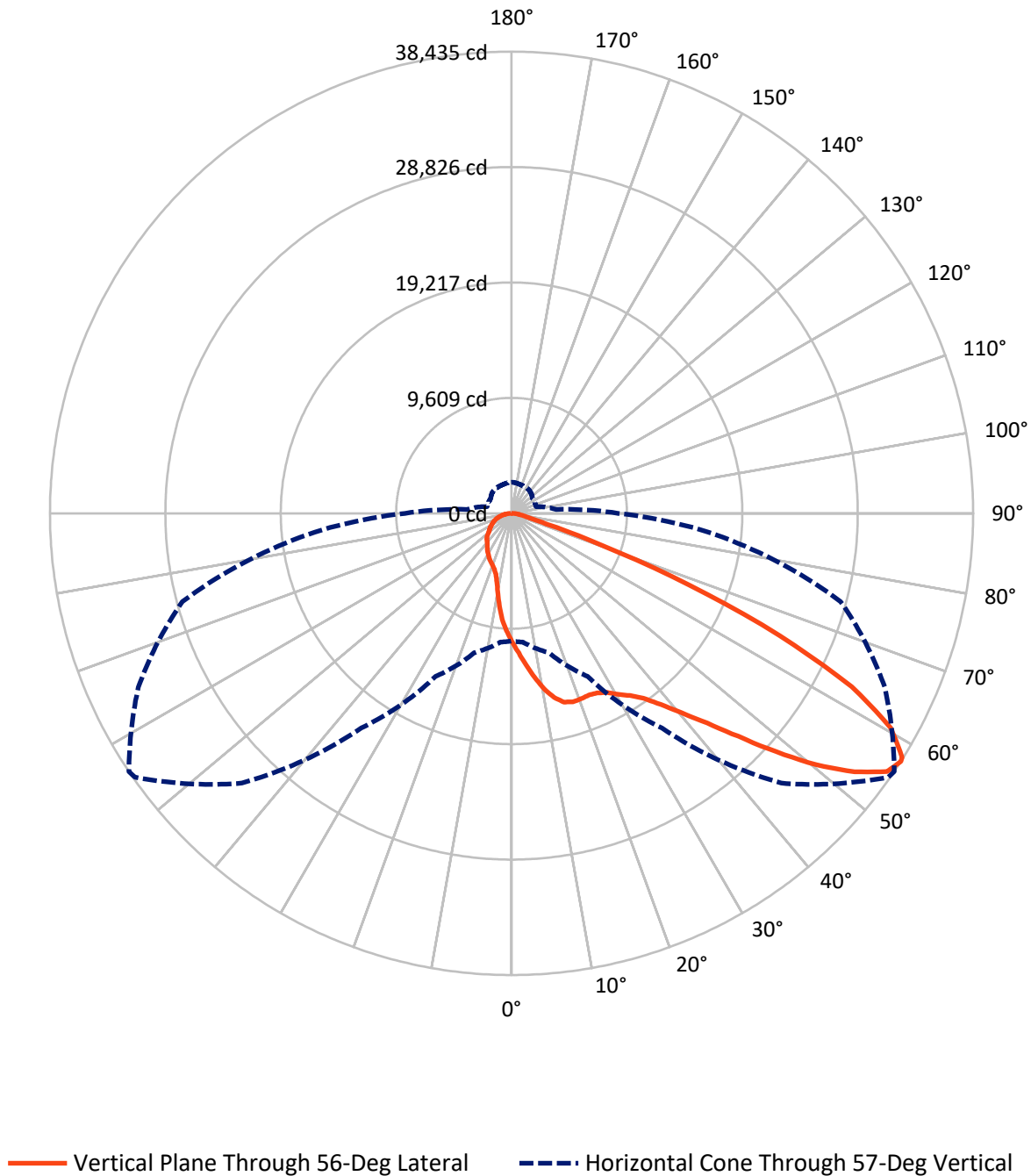
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8365.5	0.0	8365.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	40164.5	0.0	40164.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	48530.0	0.0	48530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.2	2.1
10°-20°	2907.0	6.0
20°-30°	4735.0	9.8
30°-40°	7078.3	14.6
40°-50°	10736.3	22.1
50°-60°	12033.5	24.8
60°-70°	7107.5	14.6
70°-80°	2328.7	4.8
80°-90°	575.3	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°	48530.0	100.0
0°-180°	48530.0	100.0

Coefficient of Utilization



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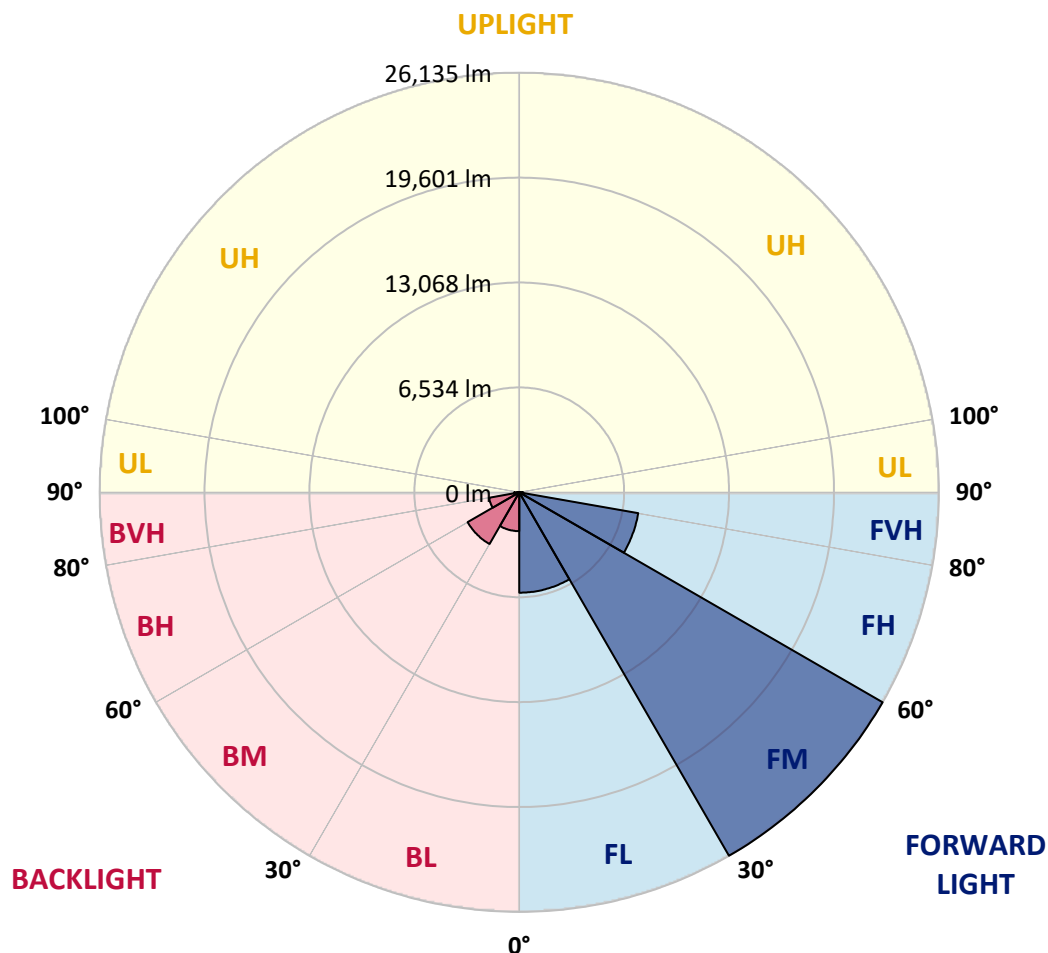
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6251.4	12.9			
FM	(30°-60°)	26135.0	53.9			
FH	(60°-80°)	7524.7	15.5			G4/12000
FVH	(80°-90°)	253.3	0.5			G3/500
BL	(0°-30°)	2418.9	5.0	B3/2500		
BM	(30°-60°)	3713.2	7.7	B3/5000		
BH	(60°-80°)	1911.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	322.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0
2.5°	12360.1	12473.5	12423.5	12250.0	12116.6	11928.1	11718.0	11654.6	11432.8	11184.3	10885.7
5°	14316.4	14259.7	14178.0	13907.8	13622.6	13290.7	12763.7	12680.3	12186.6	11624.6	11030.8
7.5°	15430.5	15425.5	15377.1	15218.7	14958.5	14524.9	13889.5	13791.1	13045.6	12141.6	11221.0
10°	15268.7	15257.1	15337.1	15502.2	15580.6	15490.6	14955.2	14856.8	13941.2	12713.7	11441.1
12.5°	14349.8	14356.4	14484.9	14831.8	15303.8	15870.8	15784.1	15735.7	14870.1	13360.8	11708.0
15°	13634.3	13649.3	13751.0	14052.9	14610.0	15639.0	16287.8	16304.4	15769.1	14074.6	12019.9
17.5°	13320.7	13352.4	13399.1	13610.9	14121.3	15177.0	16407.8	16497.9	16556.3	14815.1	12320.1
20°	13420.8	13450.8	13464.2	13599.3	14017.9	14896.8	16324.5	16486.2	17160.0	15512.2	12620.3
22.5°	13869.4	13887.8	13896.1	13931.2	14256.4	14976.9	16269.4	16439.5	17597.0	16137.7	12847.1
25°	14613.3	14599.9	14546.6	14501.5	14720.0	15293.8	16396.2	16557.9	17952.2	16704.7	12995.5
27.5°	15503.9	15487.2	15383.8	15260.4	15385.5	15787.4	16761.4	16889.8	18270.8	17235.1	13070.6
30°	16573.0	16529.6	16334.5	16187.7	16236.1	16527.9	17363.5	17480.2	18762.8	17837.1	13144.0
32.5°	17808.8	17762.1	17480.2	17236.7	17236.7	17480.2	17983.9	18080.6	19179.7	18517.6	13262.4
35°	19356.5	19298.1	18931.2	18522.6	18407.5	18531.0	18829.5	18897.9	19930.2	19374.9	13477.5
37.5°	21181.1	21102.7	20627.4	20080.3	19828.5	19821.8	20037.0	20177.1	21129.4	20500.6	13842.8
40°	23010.7	22955.6	22540.4	22110.1	21616.4	21457.9	21789.8	21833.2	22697.1	21898.2	14309.7
42.5°	24425.0	24415.0	24338.2	24394.9	23889.6	23569.4	23829.6	23864.6	24611.8	23410.9	14806.8
45°	25172.1	25188.8	25560.7	26384.6	26571.4	26337.9	26466.4	26476.4	26799.9	24937.0	15262.1
47.5°	24573.4	24660.1	25600.8	27443.7	28973.1	29748.6	29535.1	29658.5	28921.4	26247.9	15619.0
50°	22240.1	22346.9	23948.0	26971.7	30093.8	33049.2	32937.4	32909.1	30632.5	27208.5	15812.4
52.5°	19349.8	19433.2	20754.1	24518.4	29271.6	34873.8	35899.5	35752.7	32153.6	27927.4	15849.1
55°	14948.5	15078.6	16344.5	19621.7	25946.0	34176.6	38077.6	37945.8	33539.5	28304.3	15805.8
57°	10627.2	10764.0	12021.5	14975.2	21826.5	31763.3	38294.4	38434.5	34288.4	28367.7	15854.1
57.5°	9483.1	9623.2	10869.1	13737.7	20542.3	30891.0	38107.6	38341.1	34423.4	28357.6	15880.8
60°	4774.9	4828.3	5622.2	7668.6	12985.5	24973.7	35671.0	36273.0	34545.2	27867.3	15995.9
62.5°	2968.7	2930.3	2905.3	3532.4	6317.6	16561.3	30642.5	31801.7	32215.3	26679.8	15717.4
65°	2610.1	2538.4	2263.2	2213.2	2790.2	8043.8	23075.7	24518.4	27236.9	24808.6	15053.6
67.5°	2451.7	2381.6	2071.4	1884.6	1886.3	3188.8	14326.4	15950.9	21217.8	21644.7	13487.5
70°	2288.2	2224.8	1934.7	1714.5	1606.1	1766.2	6591.2	7823.7	13831.1	17013.3	11272.7
72.5°	2078.1	2034.7	1759.5	1532.7	1417.6	1322.6	2523.4	2980.4	8007.1	11426.1	7828.7
75°	1857.9	1817.9	1582.7	1365.9	1225.8	1040.7	1421.0	1531.0	4067.8	5845.6	3854.3
77.5°	1616.1	1592.8	1407.6	1207.5	1095.7	862.3	1005.7	1059.1	1744.5	2506.7	1933.0
80°	1285.9	1330.9	1230.8	1075.7	972.3	690.5	712.2	747.2	1015.7	1224.2	1097.4
82.5°	837.2	915.6	964.0	873.9	800.5	543.7	512.0	527.0	662.1	747.2	477.0
85°	348.6	391.9	633.8	572.1	532.0	396.9	343.6	350.2	410.3	425.3	195.1
87.5°	155.1	165.1	278.5	261.8	225.2	136.8	146.8	160.1	218.5	206.8	75.1
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°	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0	10764.0
2.5°	10774.0	10633.9	10393.7	10128.6	9911.8	9738.3	9563.2	9443.1	9303.0	9228.0	9189.6
5°	10782.3	10507.2	10001.8	9483.1	9019.5	8595.9	8192.2	7882.0	7591.8	7435.1	7391.7
7.5°	10817.4	10403.8	9586.5	8732.6	7908.7	7156.5	6576.1	6212.6	5950.7	5834.0	5800.6
10°	10845.7	10282.0	9072.8	7808.7	6687.9	5925.7	5475.4	5271.9	5181.9	5166.9	5151.8
12.5°	10912.4	10156.9	8532.5	6844.7	5738.9	5211.9	5055.1	5041.8	5066.8	5103.5	5103.5
15°	11017.5	10033.5	7915.4	6017.4	5135.2	4950.0	4981.7	5055.1	5123.5	5180.2	5188.5
17.5°	11094.2	9881.7	7251.6	5355.3	4813.3	4863.3	4976.7	5080.1	5150.2	5205.2	5210.2
20°	11149.3	9646.6	6542.8	4850.0	4628.2	4783.3	4925.0	5016.8	5065.1	5120.2	5128.5
22.5°	11120.9	9331.4	5914.0	4488.1	4478.1	4666.5	4801.6	4911.7	4875.0	4821.6	4856.6
25°	10984.1	8897.7	5266.9	4217.9	4319.6	4509.7	4676.5	4603.1	4479.7	4456.4	4469.7
27.5°	10740.6	8344.0	4668.2	3967.7	4136.2	4364.6	4354.6	4281.2	4237.9	4207.9	4226.2
30°	10478.8	7743.6	4144.5	3749.2	3932.7	4121.1	4082.8	4081.1	4037.8	3989.4	4012.7
32.5°	10220.3	7139.9	3729.2	3569.1	3779.2	3804.3	3887.6	3912.7	3827.6	3725.9	3719.2
35°	9995.1	6569.5	3414.0	3405.7	3594.1	3597.5	3719.2	3684.2	3472.4	3367.3	3367.3
37.5°	9826.7	6000.8	3173.8	3258.9	3350.6	3437.3	3499.0	3354.0	3318.9	3260.6	3258.9
40°	9753.3	5500.4	3023.7	3147.1	3178.8	3288.9	3130.5	3187.2	3203.8	3173.8	3173.8
42.5°	9676.6	5065.1	2893.6	3062.1	3057.1	3042.1	2962.0	3035.4	3102.1	3103.8	3098.8
45°	9599.9	4689.9	2778.6	2880.3	2950.3	2788.6	2803.6	2882.0	2975.4	3008.7	3008.7
47.5°	9514.8	4393.0	2673.5	2688.5	2796.9	2688.5	2676.8	2736.9	2846.9	2900.3	2912.0
50°	9328.0	4126.1	2553.4	2520.0	2550.1	2586.8	2596.8	2625.1	2746.9	2831.9	2851.9
52.5°	9069.5	3887.6	2400.0	2364.9	2364.9	2503.4	2550.1	2558.4	2661.8	2763.5	2783.6
55°	8854.4	3735.9	2241.5	2234.9	2228.2	2415.0	2495.0	2508.4	2580.1	2660.1	2670.2
57°	8869.4	3724.2	2119.8	2126.4	2124.8	2324.9	2443.3	2471.7	2508.4	2576.8	2588.4
57.5°	8877.7	3732.5	2093.1	2096.4	2094.8	2299.9	2428.3	2460.0	2488.4	2560.1	2571.8
60°	9002.8	3754.2	1984.7	1948.0	1956.3	2166.5	2343.3	2383.3	2401.6	2496.7	2511.7
62.5°	8817.7	3657.5	1898.0	1809.6	1809.6	2026.4	2224.8	2288.2	2316.6	2445.0	2470.0
65°	8280.6	3385.6	1796.2	1652.8	1669.5	1886.3	2083.1	2186.5	2229.9	2390.0	2416.6
67.5°	7451.7	3070.4	1687.8	1512.7	1529.4	1739.5	1936.3	2048.1	2116.4	2329.9	2351.6
70°	6372.7	2685.2	1541.0	1364.3	1384.3	1579.4	1762.9	1889.6	1991.4	2273.2	2279.9
72.5°	4698.2	2201.5	1335.9	1200.8	1222.5	1392.6	1587.7	1734.5	1871.3	2131.5	2128.1
75°	2793.6	1721.2	1109.1	1035.7	1050.7	1209.2	1429.3	1607.8	1812.9	2076.4	2108.1
77.5°	1694.5	1295.9	903.9	867.3	885.6	1047.4	1315.9	1506.0	1787.9	1958.0	1948.0
80°	1024.0	925.6	722.2	698.8	717.2	895.6	1217.5	1429.3	1562.7	1672.8	1672.8
82.5°	535.4	565.4	530.4	512.0	537.0	727.2	1107.4	1247.5	1380.9	1185.8	1107.4
85°	218.5	295.2	321.9	320.2	335.2	503.7	955.7	1067.4	890.6	845.6	865.6
87.5°	73.4	125.1	156.8	135.1	141.8	316.9	662.1	515.4	612.1	427.0	405.3
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)