

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: P317674

Luminaire Tested: **GAN-SA0A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317674
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-SA0A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39440 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

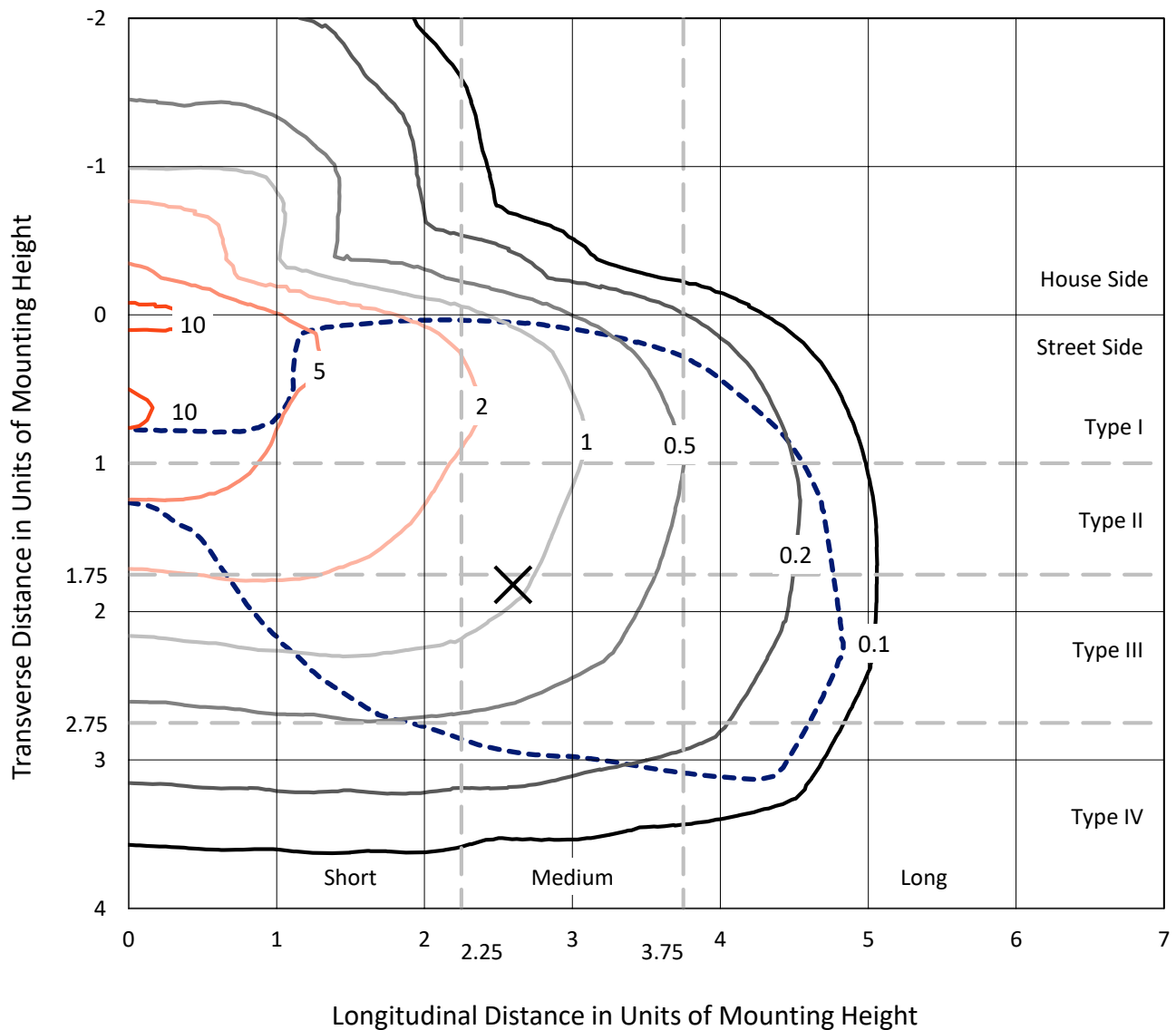
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

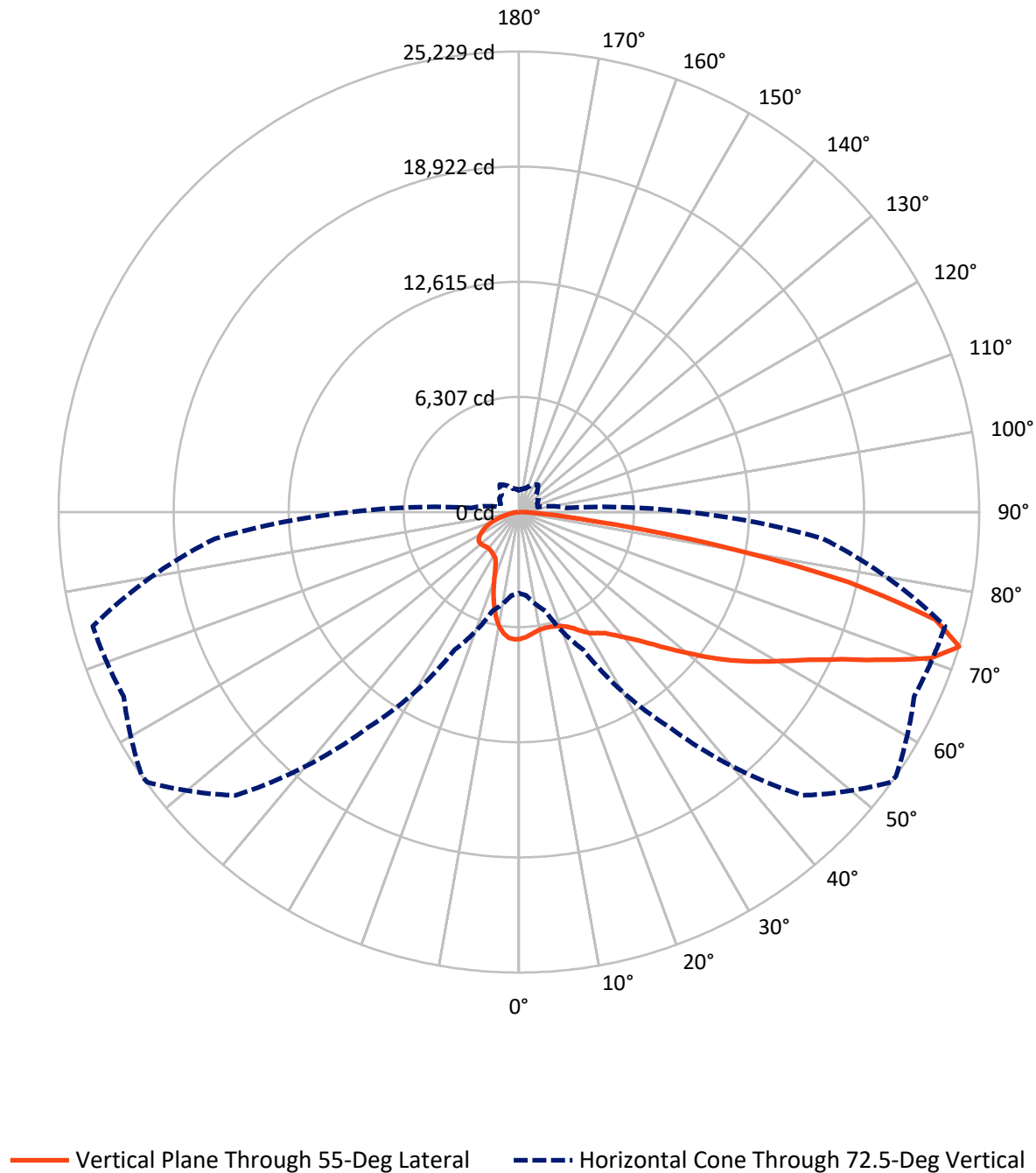
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	7330.6	0.0	7330.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32109.4	0.0	32109.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	39440.0	0.0	39440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.5	1.6
10°-20°	1675.9	4.2
20°-30°	2763.1	7.0
30°-40°	4087.3	10.4
40°-50°	5705.0	14.5
50°-60°	7428.2	18.8
60°-70°	9129.0	23.1
70°-80°	7156.0	18.1
80°-90°	866.0	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°	39440.0	100.0
0°-180°	39440.0	100.0

Coefficient of Utilization



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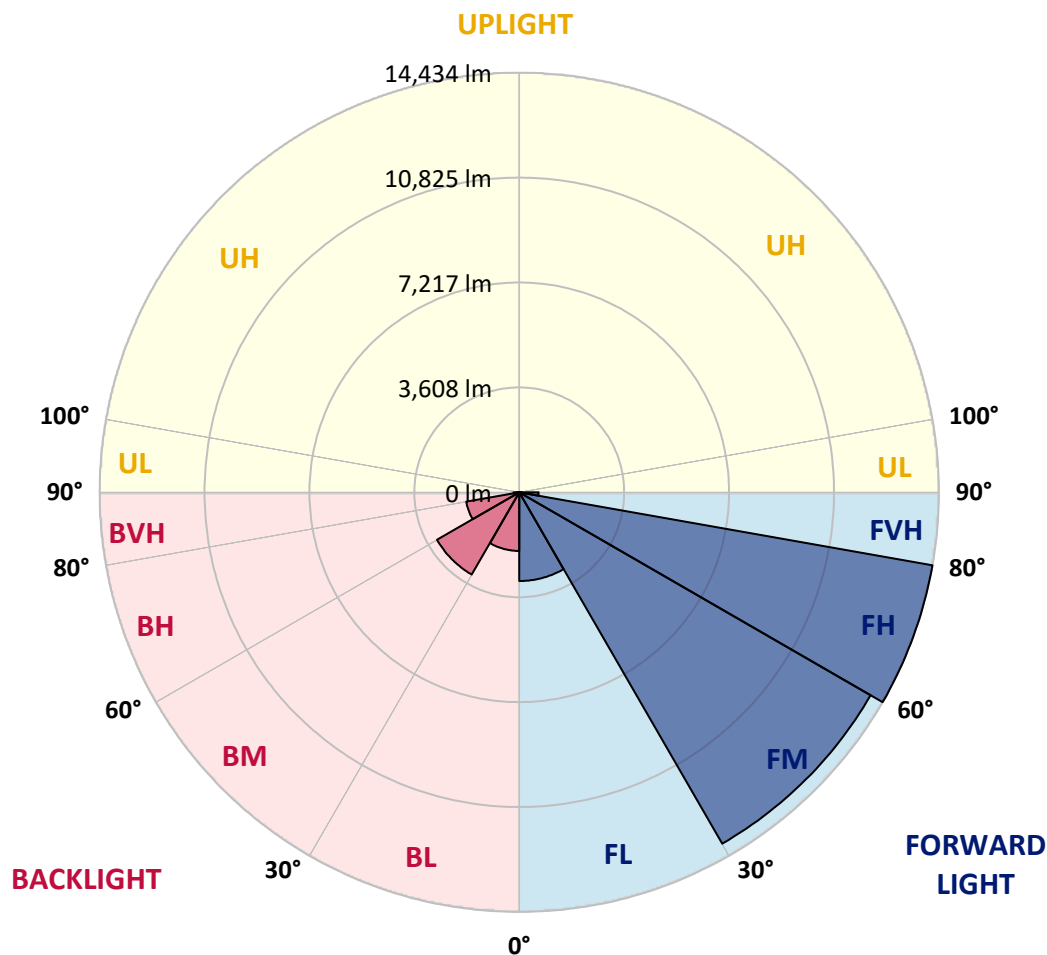
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3051.5	7.7			
FM	(30°-60°)	13954.7	35.4			
FH	(60°-80°)	14433.7	36.6			G5
FVH	(80°-90°)	669.5	1.7			G4/750
BL	(0°-30°)	2017.0	5.1	B3/2500		
BM	(30°-60°)	3265.9	8.3	B3/5000		
BH	(60°-80°)	1851.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	196.4	0.5			G2/225
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°	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4
2.5°	6729.9	6713.9	6733.9	6761.9	6792.5	6833.8	6857.8	6868.4	6909.7	6925.7	6960.4
5°	6418.2	6410.2	6443.5	6491.5	6559.4	6655.3	6732.6	6747.2	6856.5	6933.7	7004.3
7.5°	6191.7	6191.7	6230.4	6287.6	6363.6	6492.8	6602.0	6622.0	6807.2	6973.7	7104.2
10°	6011.9	6018.5	6063.8	6131.8	6221.0	6358.2	6503.4	6526.1	6793.8	7066.9	7274.7
12.5°	5892.0	5908.0	5949.3	6010.6	6121.1	6287.6	6471.5	6502.1	6821.8	7200.1	7479.9
15°	5967.9	5994.6	5998.6	6023.9	6085.2	6266.3	6490.1	6522.1	6881.8	7336.0	7713.0
17.5°	6301.0	6310.3	6269.0	6215.7	6186.4	6302.3	6546.1	6579.4	6953.7	7470.6	7936.8
20°	6807.2	6801.8	6712.6	6568.7	6419.5	6438.2	6638.0	6672.6	7050.9	7589.1	8160.6
22.5°	7446.6	7427.9	7290.7	7025.6	6771.2	6664.6	6799.2	6828.5	7197.5	7758.3	8400.4
25°	8221.9	8180.6	7999.4	7643.7	7269.4	6995.0	7041.6	7069.6	7410.6	7947.5	8620.2
27.5°	9039.8	8998.5	8768.1	8337.8	7839.6	7412.0	7376.0	7400.0	7653.1	8087.3	8782.7
30°	9895.0	9851.1	9640.6	9158.4	8444.4	7843.6	7687.7	7697.0	7823.6	8163.3	8915.9
32.5°	10754.3	10713.0	10477.2	9917.7	9101.1	8307.1	7912.8	7900.8	7926.2	8241.9	9066.5
35°	11625.5	11641.5	11365.7	10746.3	9828.4	8822.7	8179.3	8153.9	8098.0	8403.1	9279.6
37.5°	12558.0	12547.3	12190.3	11542.9	10589.1	9382.2	8561.6	8557.6	8364.4	8708.1	9614.0
40°	13181.4	13188.1	12970.9	12358.1	11357.7	10001.6	9051.8	9042.5	8789.4	9165.0	10052.2
42.5°	13425.2	13469.1	13525.1	13136.1	12162.3	10719.6	9636.6	9623.3	9382.2	9820.4	10567.8
45°	13442.5	13530.4	13876.8	13827.5	12977.6	11541.5	10383.9	10346.6	10173.5	10691.7	11183.2
47.5°	13293.3	13383.9	13959.4	14239.1	13706.3	12408.8	11257.8	11228.5	11079.3	11781.3	11849.3
50°	12966.9	13053.5	13788.8	14440.3	14305.7	13242.7	12264.9	12187.6	12107.7	13040.2	12611.2
52.5°	12355.5	12522.0	13561.1	14488.2	14664.1	13983.3	13323.9	13273.3	13317.3	14368.3	13374.6
55°	10907.5	11094.0	12973.6	14448.2	14929.1	14605.4	14383.0	14380.3	14608.1	15761.7	14193.8
57.5°	10096.2	10228.1	11777.3	14380.3	15243.5	15223.5	15431.4	15456.7	15900.3	17279.0	15051.7
60°	9637.9	9776.5	11171.2	14128.5	15731.1	16022.8	16501.1	16551.7	17213.7	18958.8	16084.1
62.5°	9221.0	9372.8	10795.6	13615.7	16305.2	17165.8	17782.6	17827.9	18604.5	20685.3	17081.9
65°	8508.3	8680.1	10245.4	13278.6	16827.4	18656.4	19411.8	19442.4	20201.7	22494.3	17845.2
67.5°	7501.2	7658.4	9207.7	12534.0	17213.7	20466.8	21577.8	21595.1	21785.6	23771.8	18235.5
70°	6324.9	6384.9	7729.0	10996.7	16756.8	22159.9	23951.6	23955.6	23229.6	24589.7	18171.5
72.5°	4444.0	4585.2	5610.9	8324.5	14400.3	21953.5	25183.9	25229.2	23901.0	24176.8	16719.5
75°	2725.5	2874.7	3519.5	5044.8	9135.7	17265.7	23268.3	23582.6	22642.2	21556.5	13658.3
77.5°	1822.3	1878.3	2296.6	2941.3	4138.9	9933.7	17889.1	18480.6	18809.6	15720.4	8734.8
80°	1016.4	1123.0	1522.6	1827.7	1841.0	3947.1	10726.3	10864.8	10465.2	6259.7	2694.9
82.5°	538.2	596.8	1016.4	1073.7	1004.4	1321.5	3997.7	4001.7	3343.6	1678.5	800.6
85°	417.0	466.2	696.7	655.4	512.9	586.1	1318.8	1390.7	1137.6	687.4	261.1
87.5°	207.8	258.4	472.9	415.6	201.2	167.8	471.6	503.5	448.9	269.1	94.6
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°	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4	6956.4
2.5°	6973.7	6985.7	7000.3	6984.3	6979.0	6957.7	6921.7	6913.7	6895.1	6896.4	6907.1
5°	7035.0	7054.9	7047.0	6985.7	6912.4	6809.8	6703.3	6612.7	6552.7	6548.7	6544.7
7.5°	7152.2	7165.5	7102.9	6928.4	6723.2	6486.1	6262.3	6066.5	5947.9	5918.6	5912.0
10°	7336.0	7333.4	7161.5	6809.8	6400.9	5977.3	5617.6	5345.8	5187.3	5140.7	5128.7
12.5°	7541.2	7510.5	7181.5	6594.0	5945.3	5357.8	4902.2	4599.8	4434.7	4381.4	4368.0
15°	7753.0	7677.0	7132.2	6271.7	5385.8	4690.4	4212.2	3932.4	3843.2	3813.9	3808.6
17.5°	7950.1	7803.6	6991.0	5834.7	4747.7	4025.7	3652.7	3540.8	3562.1	3600.7	3602.1
20°	8143.3	7888.9	6764.5	5283.2	4075.0	3478.2	3351.6	3434.2	3535.5	3614.1	3624.7
22.5°	8333.8	7948.8	6472.8	4646.5	3472.9	3170.5	3259.7	3410.2	3526.1	3611.4	3626.0
25°	8493.6	7963.5	6070.5	3967.1	3054.6	3054.6	3215.8	3358.3	3472.9	3556.8	3571.4
27.5°	8552.3	7864.9	5503.0	3338.3	2844.1	3001.3	3154.5	3273.0	3370.3	3459.5	3475.5
30°	8574.9	7682.4	4847.6	2833.4	2757.5	2944.0	3071.9	3173.1	3265.0	3349.0	3363.6
32.5°	8578.9	7462.6	4152.2	2547.0	2697.6	2884.1	2969.3	3058.6	3157.1	3190.4	3195.8
35°	8604.2	7202.8	3419.6	2400.5	2641.6	2828.1	2896.0	2960.0	2800.1	2812.1	2822.8
37.5°	8677.5	6945.7	2806.8	2317.9	2605.6	2798.8	2880.1	2648.3	2523.0	2493.7	2489.7
40°	8814.7	6671.3	2352.5	2251.3	2592.3	2813.5	2777.5	2472.4	2256.6	2095.4	2071.5
42.5°	9005.2	6375.6	2062.1	2207.3	2601.6	2884.1	2634.9	2303.2	1944.9	1841.0	1827.7
45°	9219.7	6065.2	1904.9	2176.7	2633.6	2938.7	2605.6	2078.1	1799.7	1721.1	1714.4
47.5°	9427.5	5685.5	1823.7	2163.4	2677.6	2894.7	2481.8	2008.8	1730.4	1689.1	1693.1
50°	9665.9	5343.2	1774.4	2148.7	2716.2	2866.7	2341.9	1972.9	1703.8	1754.4	1807.7
52.5°	9867.1	4988.8	1730.4	2119.4	2730.9	2817.4	2305.9	1979.5	1703.8	1801.0	1851.7
55°	10105.5	4721.1	1679.8	2058.1	2702.9	2677.6	2280.6	2019.5	1723.8	1662.5	1667.8
57.5°	10413.2	4633.1	1623.9	1962.2	2609.6	2473.8	2268.6	2058.1	1711.8	1673.2	1686.5
60°	10839.5	4726.4	1601.2	1837.0	2464.4	2313.9	2269.9	2038.2	1627.9	1561.3	1562.6
62.5°	11245.8	4830.3	1599.9	1758.4	2285.9	2171.4	2239.3	1972.9	1585.2	1546.6	1561.3
65°	11379.0	4725.1	1535.9	1670.5	2084.8	2000.9	2183.4	1903.6	1553.3	1494.6	1492.0
67.5°	11200.5	4398.7	1406.7	1527.9	1854.3	1802.4	2110.1	1821.0	1502.6	1454.7	1446.7
70°	10670.3	3670.0	1246.9	1340.1	1591.9	1578.6	1994.2	1725.1	1434.7	1393.4	1358.8
72.5°	9243.6	2615.0	1051.0	1115.0	1296.2	1338.8	1834.3	1599.9	1338.8	1249.5	1196.3
75°	7591.8	1935.6	863.2	876.5	984.4	1100.3	1614.5	1453.4	1225.6	1073.7	1032.4
77.5°	4649.1	1184.3	687.4	692.7	706.0	877.9	1329.5	1289.5	1081.7	895.2	865.9
80°	1505.3	646.1	496.9	522.2	482.2	643.4	1028.4	1097.7	928.5	748.7	716.7
82.5°	572.8	377.0	335.7	353.0	334.4	431.6	750.0	879.2	760.6	615.4	500.9
85°	277.1	213.1	198.5	222.5	206.5	221.1	479.6	647.4	576.8	401.0	373.0
87.5°	98.6	94.6	75.9	102.6	87.9	78.6	146.5	326.4	381.0	275.8	246.4
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)