

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: P318213

Luminaire Tested: **GAN-SA9C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45616 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

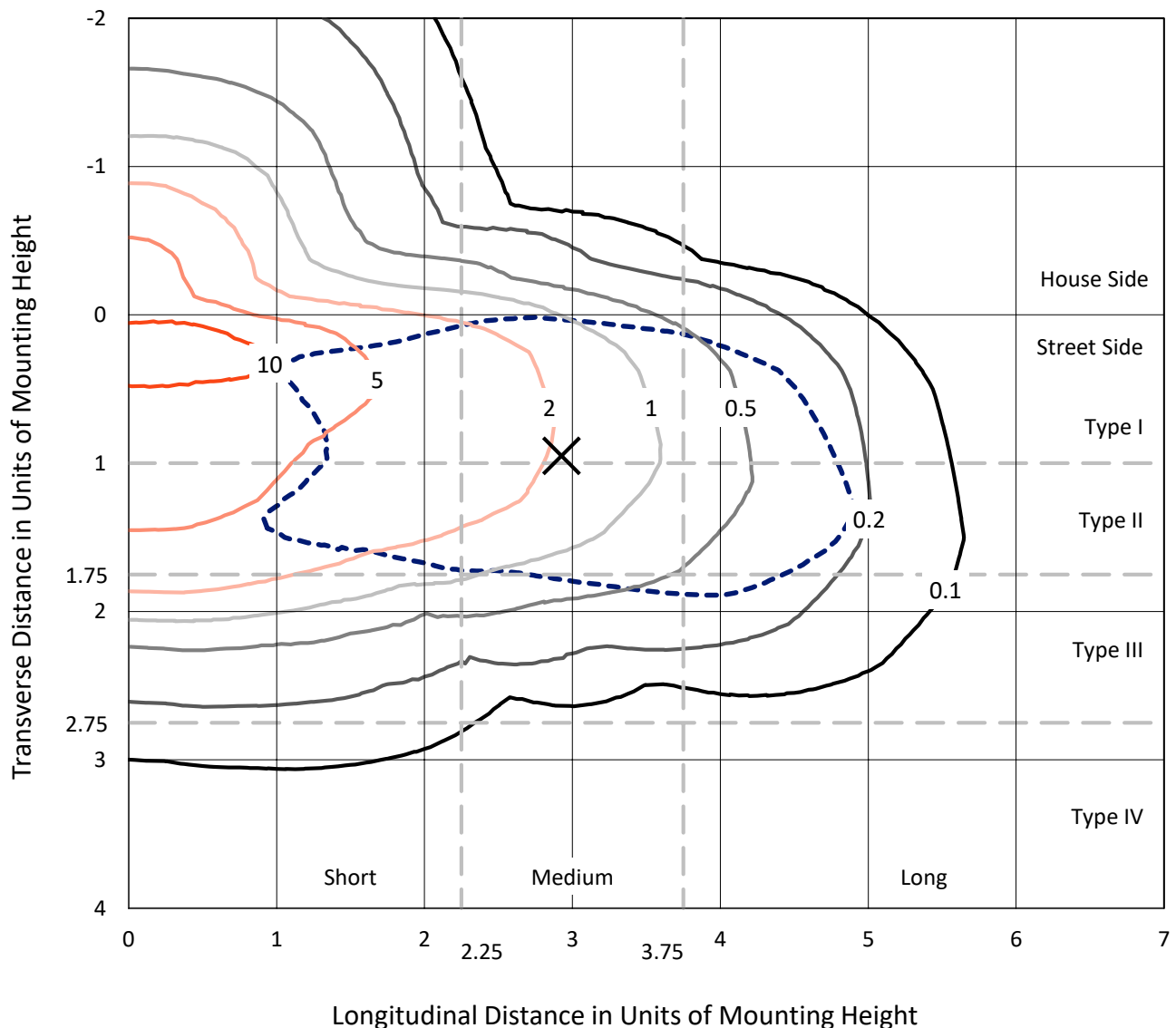
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

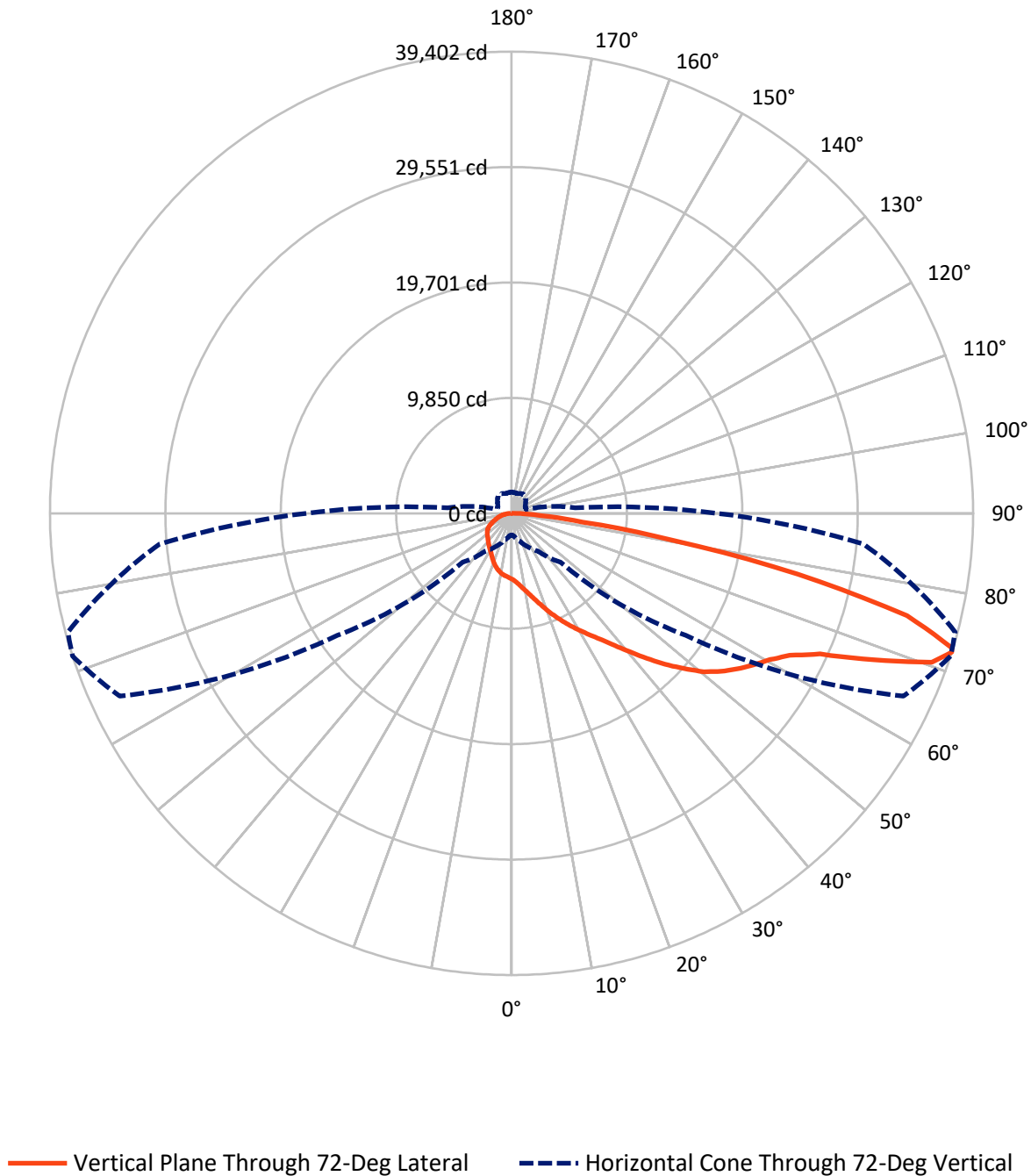
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8462.1	0.0	8462.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37153.9	0.0	37153.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	45616.0	0.0	45616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	1.2
10°-20°	1817.2	4.0
20°-30°	3184.3	7.0
30°-40°	4721.3	10.4
40°-50°	6905.3	15.1
50°-60°	9501.6	20.8
60°-70°	10578.1	23.2
70°-80°	7167.7	15.7
80°-90°	1178.1	2.6
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°	45616.0	100.0
0°-180°	45616.0	100.0

Coefficient of Utilization



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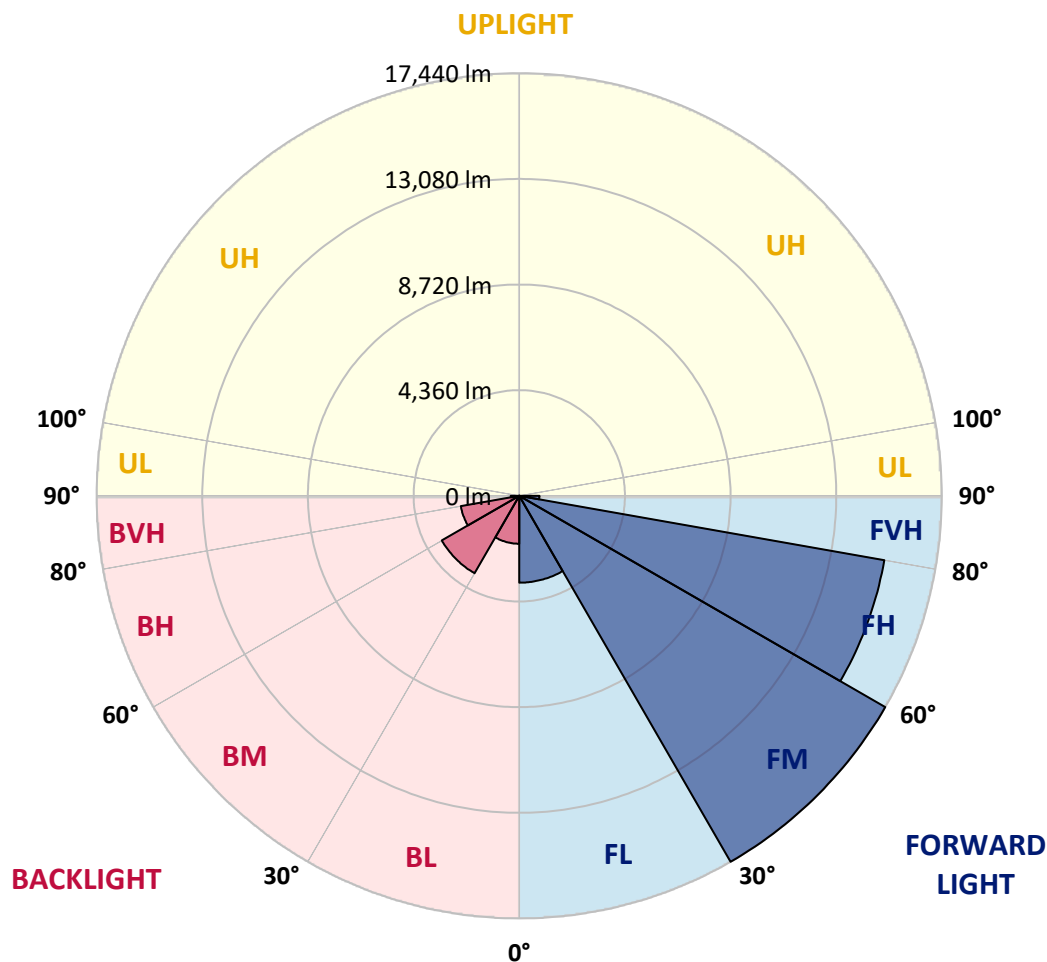
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3585.7	7.9			
FM	(30°-60°)	17439.6	38.2			
FH	(60°-80°)	15297.7	33.5			G5
FVH	(80°-90°)	831.0	1.8			G5
BL	(0°-30°)	1978.1	4.3	B3/2500		
BM	(30°-60°)	3688.7	8.1	B3/5000		
BH	(60°-80°)	2448.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	347.1	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0
2.5°	6199.4	6190.0	6157.0	6157.0	6094.1	6040.7	5940.2	5872.7	5792.6	5764.3	5670.1
5°	6799.4	6802.5	6761.7	6733.4	6640.7	6527.7	6356.4	6201.0	6045.5	5982.6	5789.4
7.5°	7303.6	7297.3	7286.3	7262.7	7176.3	7060.1	6829.2	6598.3	6369.0	6274.8	5941.8
10°	7627.1	7641.2	7650.7	7661.7	7625.5	7542.3	7324.0	7042.8	6742.8	6614.0	6124.0
12.5°	7790.5	7815.6	7859.6	7935.0	7994.6	7985.2	7826.6	7528.2	7171.6	7009.8	6351.7
15°	7886.3	7919.3	7988.4	8123.4	8291.5	8387.3	8344.9	8074.7	7677.4	7477.9	6629.7
17.5°	7946.0	7972.7	8079.5	8260.1	8509.8	8764.3	8875.8	8649.6	8249.1	8021.3	6948.6
20°	7986.8	8007.2	8140.7	8352.8	8676.3	9081.5	9392.5	9336.0	8878.9	8583.6	7281.6
22.5°	8077.9	8095.2	8222.4	8436.0	8794.1	9317.1	9890.4	9975.2	9543.3	9208.8	7638.1
25°	8332.3	8332.3	8439.1	8588.4	8924.5	9521.3	10311.4	10686.8	10221.8	9832.3	7967.9
27.5°	8817.7	8813.0	8852.2	8904.1	9158.5	9728.7	10686.8	11315.0	10925.5	10499.8	8288.4
30°	9392.5	9423.9	9428.7	9403.5	9522.9	9987.8	11033.9	11977.8	11633.9	11175.2	8616.6
32.5°	10132.3	10152.7	10129.2	10045.9	10028.6	10355.3	11374.7	12672.1	12400.3	11880.5	8916.6
35°	11071.6	11032.3	10958.5	10788.8	10627.1	10847.0	11764.2	13366.3	13261.1	12733.3	9329.7
37.5°	12078.4	12079.9	11988.8	11604.0	11381.0	11475.2	12301.4	14153.2	14302.4	13748.0	9859.0
40°	12885.7	12928.1	12984.6	12478.9	12189.9	12320.2	12984.6	15065.7	15533.8	14951.1	10548.5
42.5°	13449.5	13498.2	13658.4	13341.2	13041.2	13283.0	13788.8	16039.6	16916.0	16339.5	11355.9
45°	14046.4	14073.1	14186.2	14049.5	13857.9	14402.9	14695.1	17047.9	18378.3	17819.1	12259.0
47.5°	14674.6	14702.9	14819.2	14728.1	14627.5	15449.0	15640.6	17998.2	19779.3	19444.7	13223.4
50°	15450.6	15469.4	15579.3	15414.4	15445.8	16237.5	16485.6	18869.9	21247.9	20905.4	14190.9
52.5°	16509.2	16513.9	16666.2	16517.0	16369.4	16815.5	17212.8	19691.3	22399.1	22237.4	15158.4
55°	17338.5	17388.7	17888.2	17856.8	17772.0	17340.1	17820.7	20473.5	23426.4	23503.3	16185.6
57.5°	16809.2	17005.5	18017.0	18730.1	19424.3	18645.3	18642.1	21354.7	24381.3	24745.7	17314.9
60°	14721.8	14988.8	16479.3	18061.0	20233.2	20916.4	20347.9	22430.6	25345.7	25977.1	18730.1
62.5°	10514.0	10953.8	12973.6	15499.2	19124.3	22421.1	23819.0	24137.9	26657.2	27403.3	20569.3
65°	5315.1	5648.1	7341.3	10383.6	15279.4	21437.9	27591.7	27876.0	28936.2	29599.0	23401.2
67.5°	3229.3	3354.9	4181.1	5775.3	9367.4	16699.2	28823.1	34106.8	33346.6	33698.4	27439.4
70°	2379.5	2472.2	2987.4	3835.5	5387.4	9799.3	25044.1	38553.4	38053.9	38014.6	30423.6
72°	1853.4	1920.9	2376.4	3098.9	3939.2	5879.0	18152.1	36912.0	39401.5	39203.6	30150.3
72.5°	1757.6	1817.3	2231.9	2916.7	3722.5	5329.2	16320.7	35804.7	39304.1	39214.6	29796.9
75°	1383.7	1426.2	1652.3	2255.5	2913.6	3023.5	8943.3	27747.2	34867.0	36316.7	26800.1
77.5°	1145.0	1151.3	1270.7	1641.3	2271.2	2137.7	4393.1	19251.5	24967.2	26561.4	18984.5
80°	933.0	940.8	997.4	1151.3	1718.3	1581.7	2085.8	11070.0	13978.8	13996.1	9028.1
82.5°	742.9	744.5	807.3	841.9	1234.5	1130.9	1195.3	5197.3	6108.3	5875.8	3245.0
85°	523.0	512.0	788.5	691.1	807.3	725.6	659.7	2057.6	2525.6	2415.7	1016.2
87.5°	174.3	180.6	350.3	447.6	471.2	411.5	293.7	788.5	953.4	945.5	322.0
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°	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0	5612.0
2.5°	5640.2	5590.0	5516.1	5434.5	5370.1	5304.1	5255.4	5230.3	5202.0	5178.5	5206.7
5°	5699.9	5605.7	5448.6	5294.7	5181.6	5081.1	5008.8	4971.1	4936.6	4913.0	4916.2
7.5°	5797.3	5644.9	5381.1	5156.5	4999.4	4891.0	4817.2	4792.1	4770.1	4763.8	4771.7
10°	5901.0	5676.4	5291.5	4993.1	4814.1	4724.5	4691.6	4708.8	4724.5	4738.7	4754.4
12.5°	6018.8	5704.6	5161.2	4801.5	4649.1	4614.6	4647.6	4723.0	4777.9	4810.9	4831.3
15°	6172.7	5729.8	5010.4	4609.9	4507.8	4547.1	4658.6	4788.9	4884.7	4946.0	4955.4
17.5°	6314.0	5728.2	4817.2	4416.7	4393.1	4507.8	4675.8	4859.6	4988.4	5074.8	5092.1
20°	6460.1	5685.8	4592.6	4228.2	4276.9	4465.4	4683.7	4905.2	5060.7	5161.2	5184.7
22.5°	6596.8	5612.0	4346.0	4057.0	4179.5	4408.8	4653.9	4878.5	5034.0	5115.6	5140.8
25°	6689.4	5483.2	4096.3	3912.5	4093.1	4339.7	4556.5	4737.1	4853.3	4894.2	4900.5
27.5°	6736.5	5315.1	3860.7	3786.9	4003.6	4226.6	4375.9	4465.4	4498.4	4495.2	4488.9
30°	6742.8	5093.6	3658.1	3684.8	3899.9	4060.1	4130.8	4113.6	4071.1	3998.9	4005.2
32.5°	6722.4	4843.9	3488.4	3587.4	3768.0	3857.5	3860.7	3777.4	3664.3	3549.7	3518.3
35°	6728.7	4598.9	3339.2	3477.4	3607.8	3647.1	3610.9	3488.4	3334.5	3186.9	3155.5
37.5°	6797.8	4385.3	3210.4	3350.2	3430.3	3439.7	3387.9	3259.1	3146.0	3001.5	2989.0
40°	6962.7	4232.9	3087.9	3207.3	3252.8	3257.5	3183.7	3092.6	3102.0	3025.1	3023.5
42.5°	7259.6	4167.0	2979.5	3058.1	3086.3	3095.8	3039.2	2981.1	3062.8	3012.5	2995.2
45°	7642.8	4182.7	2888.4	2912.0	2963.8	3007.8	2973.3	2902.6	2934.0	2715.7	2643.4
47.5°	8085.7	4283.2	2816.2	2786.3	2875.9	2959.1	2905.7	2798.9	2687.4	2470.6	2429.8
50°	8604.1	4438.7	2750.2	2662.3	2780.1	2893.2	2839.7	2687.4	2519.3	2414.1	2400.0
52.5°	9144.4	4628.7	2684.3	2525.6	2659.1	2842.9	2816.2	2662.3	2454.9	2351.3	2332.4
55°	9756.9	4820.3	2601.0	2367.0	2528.8	2819.3	2805.2	2571.2	2406.2	2348.1	2334.0
57.5°	10518.7	5038.7	2491.1	2202.1	2406.2	2734.5	2690.5	2516.2	2356.0	2312.0	2307.3
60°	11511.3	5360.7	2332.4	2026.1	2257.0	2604.1	2594.7	2436.1	2275.9	2244.5	2238.2
62.5°	13000.3	5893.1	2114.1	1850.2	2090.5	2382.7	2469.1	2327.7	2191.1	2189.5	2192.6
65°	15309.2	6694.1	1876.9	1696.3	1922.5	2195.8	2323.0	2216.2	2104.7	2136.1	2140.8
67.5°	17985.6	7358.5	1644.5	1545.5	1751.3	2018.3	2191.1	2104.7	1990.0	2071.7	2073.3
70°	18876.2	6764.8	1440.3	1396.3	1573.8	1847.1	2048.1	1982.2	1865.9	1947.6	1939.8
72°	17566.2	5461.2	1308.4	1283.2	1440.3	1705.7	1920.9	1867.5	1752.9	1807.8	1787.4
72.5°	17153.1	5206.7	1275.4	1255.0	1404.2	1669.6	1887.9	1839.2	1724.6	1771.7	1752.9
75°	15301.3	4521.9	1096.3	1101.0	1225.1	1493.7	1702.6	1686.9	1569.1	1573.8	1567.5
77.5°	11098.3	3315.7	923.5	955.0	1042.9	1313.1	1515.7	1506.3	1377.5	1353.9	1349.2
80°	5150.2	1691.6	752.3	766.5	857.6	1097.9	1292.7	1280.1	1176.4	1146.6	1129.3
82.5°	1763.8	804.2	565.4	574.9	664.4	884.3	1121.4	1113.6	1027.2	969.1	933.0
85°	629.8	400.5	395.8	386.4	474.3	695.8	976.9	934.5	807.3	687.9	684.8
87.5°	204.2	171.2	204.2	202.6	276.4	471.2	709.9	604.7	585.9	486.9	477.5
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)