

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: P318011

Luminaire Tested: **GAN-SA7C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318011
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-SA7C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 41057 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

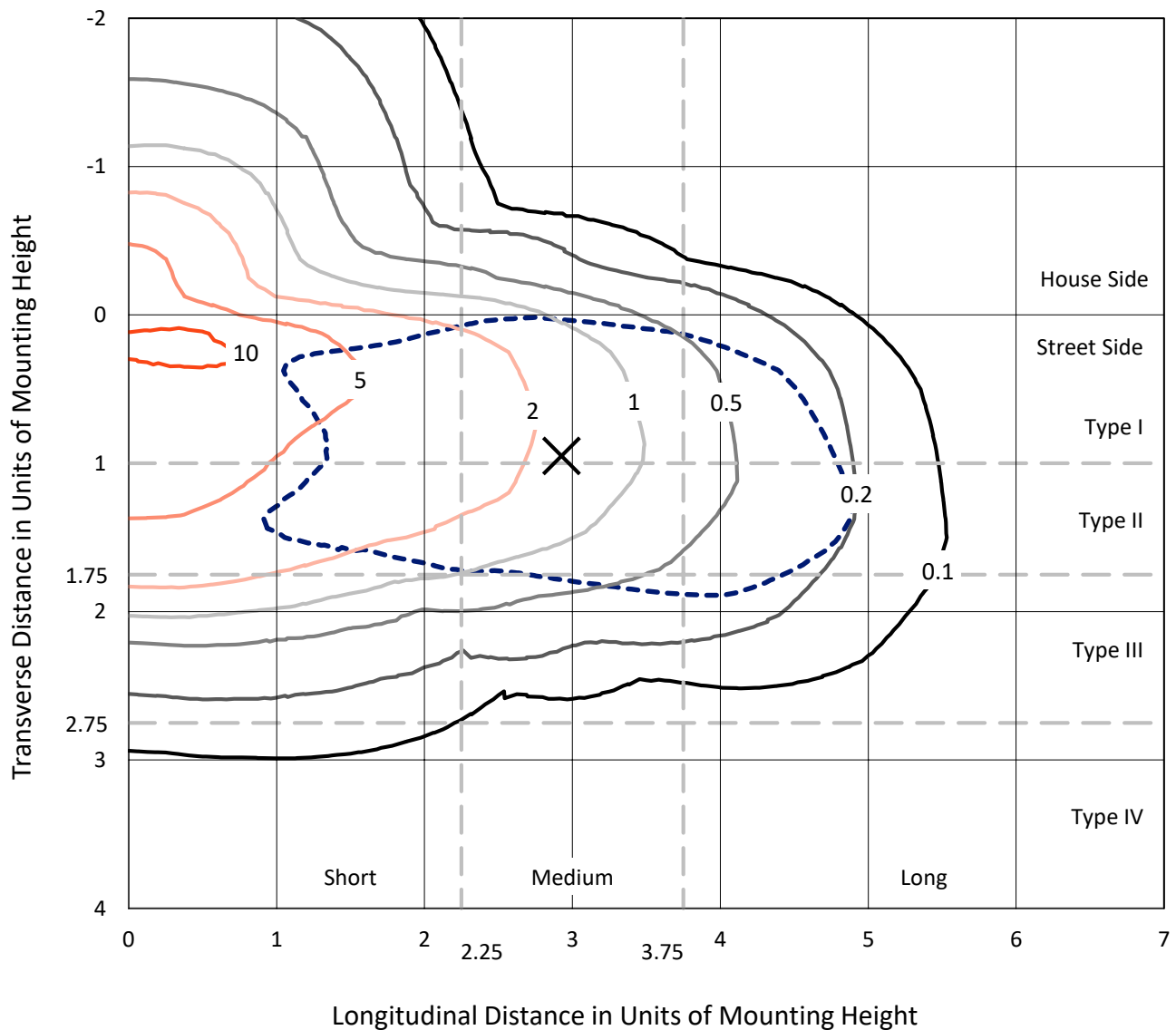
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

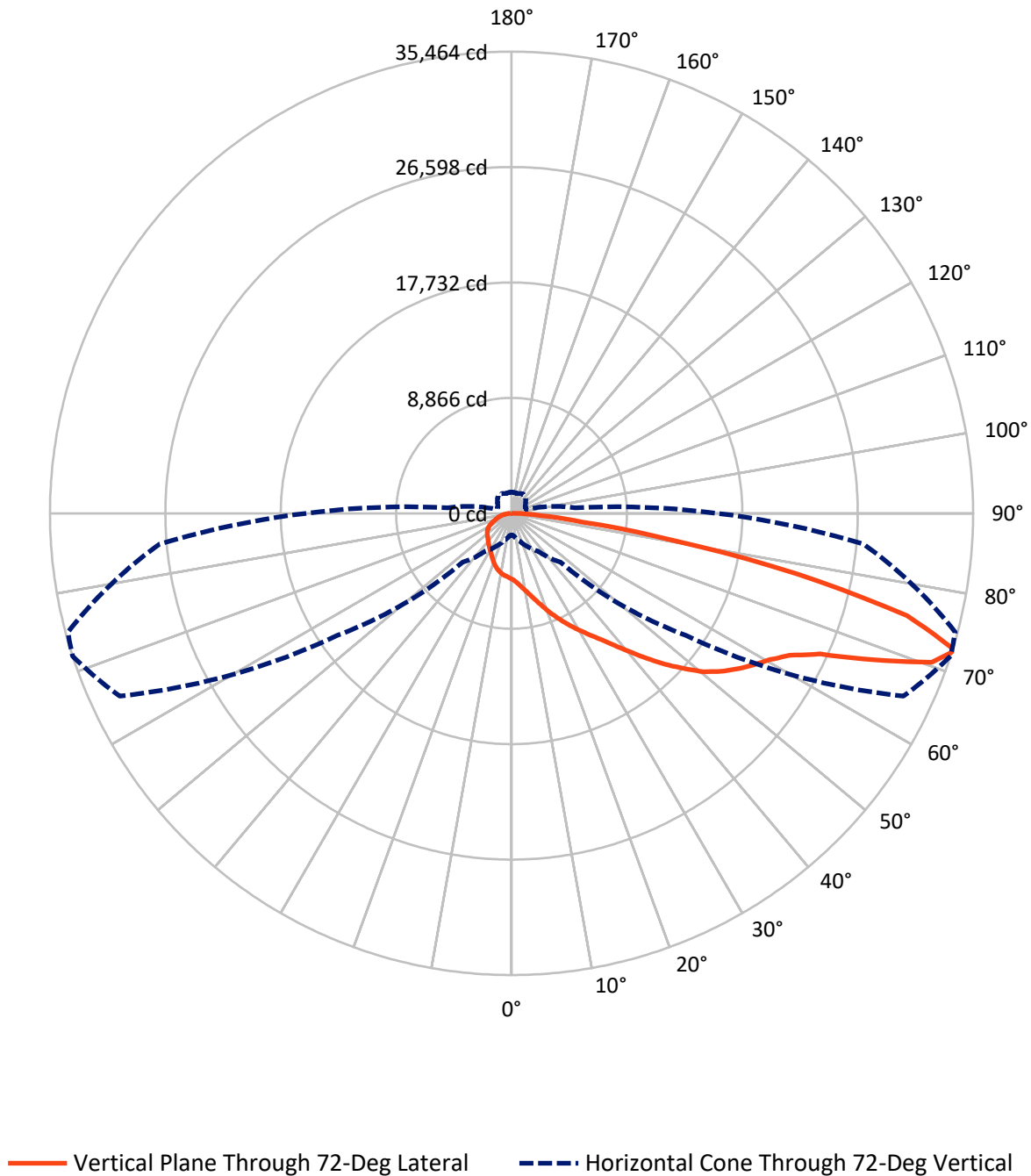
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7616.4	0.0	7616.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33440.7	0.0	33440.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	41057.0	0.0	41057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.1	1.2
10°-20°	1635.6	4.0
20°-30°	2866.0	7.0
30°-40°	4249.4	10.4
40°-50°	6215.2	15.1
50°-60°	8552.0	20.8
60°-70°	9520.9	23.2
70°-80°	6451.4	15.7
80°-90°	1060.3	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°	41057.0	100.0
0°-180°	41057.0	100.0

Coefficient of Utilization



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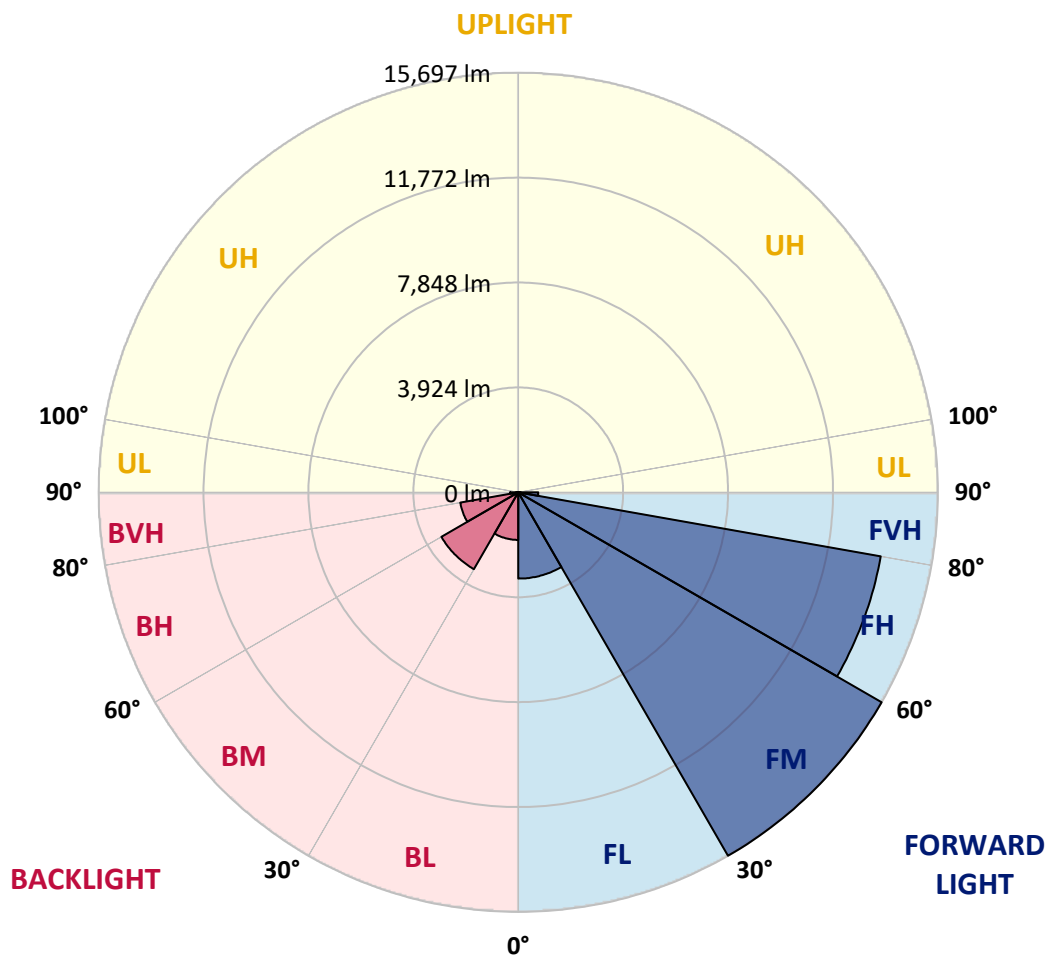
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3227.3	7.9			
FM	(30°-60°)	15696.6	38.2			
FH	(60°-80°)	13768.8	33.5			G5
FVH	(80°-90°)	747.9	1.8			G4/750
BL	(0°-30°)	1780.4	4.3	B3/2500		
BM	(30°-60°)	3320.0	8.1	B3/5000		
BH	(60°-80°)	2203.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	312.4	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°	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1
2.5°	5579.8	5571.3	5541.6	5541.6	5485.1	5437.0	5346.5	5285.8	5213.7	5188.2	5103.4
5°	6119.8	6122.7	6085.9	6060.5	5977.0	5875.3	5721.2	5581.2	5441.3	5384.7	5210.8
7.5°	6573.6	6568.0	6558.1	6536.9	6459.1	6354.5	6146.7	5938.9	5732.5	5647.7	5348.0
10°	6864.8	6877.6	6886.0	6895.9	6863.4	6788.5	6592.0	6338.9	6068.9	5953.0	5511.9
12.5°	7011.9	7034.5	7074.1	7141.9	7195.6	7187.2	7044.4	6775.8	6454.9	6309.3	5716.9
15°	7098.1	7127.8	7190.0	7311.6	7462.8	7549.1	7510.9	7267.7	6910.1	6730.5	5967.1
17.5°	7151.8	7175.8	7272.0	7434.5	7659.3	7888.3	7988.7	7785.1	7424.7	7219.7	6254.1
20°	7188.6	7206.9	7327.1	7518.0	7809.2	8173.9	8453.8	8402.9	7991.5	7725.8	6553.8
22.5°	7270.6	7286.1	7400.6	7592.9	7915.2	8386.0	8901.9	8978.3	8589.5	8288.4	6874.7
25°	7499.6	7499.6	7595.7	7730.0	8032.5	8569.7	9280.8	9618.7	9200.2	8849.6	7171.6
27.5°	7936.4	7932.2	7967.5	8014.2	8243.2	8756.3	9618.7	10184.2	9833.6	9450.5	7460.0
30°	8453.8	8482.1	8486.3	8463.7	8571.1	8989.6	9931.1	10780.7	10471.1	10058.3	7755.5
32.5°	9119.7	9138.0	9116.8	9041.9	9026.4	9320.4	10237.9	11405.6	11161.0	10693.1	8025.5
35°	9965.0	9929.7	9863.3	9710.6	9565.0	9762.9	10588.5	12030.4	11935.7	11460.7	8397.3
37.5°	10871.2	10872.6	10790.6	10444.3	10243.5	10328.4	11071.9	12738.7	12873.0	12373.9	8873.7
40°	11597.8	11636.0	11686.9	11231.7	10971.6	11088.9	11686.9	13560.0	13981.3	13456.8	9494.3
42.5°	12105.4	12149.2	12293.4	12007.8	11737.8	11955.5	12410.7	14436.5	15225.3	14706.5	10220.9
45°	12642.5	12666.6	12768.4	12645.4	12472.9	12963.5	13226.4	15344.1	16541.5	16038.2	11033.8
47.5°	13208.0	13233.5	13338.1	13256.1	13165.6	13905.0	14077.4	16199.4	17802.5	17501.4	11901.8
50°	13906.4	13923.3	14022.3	13873.9	13902.1	14614.6	14838.0	16984.0	19124.3	18816.1	12772.6
52.5°	14859.2	14863.4	15000.6	14866.3	14733.4	15134.9	15492.5	17723.3	20160.5	20014.9	13643.4
55°	15605.6	15650.9	16100.4	16072.1	15995.8	15607.0	16039.6	18427.3	21085.1	21154.3	14568.0
57.5°	15129.2	15305.9	16216.3	16858.1	17483.0	16781.8	16779.0	19220.4	21944.6	22272.5	15584.4
60°	13250.4	13490.8	14832.3	16255.9	18211.0	18826.0	18314.2	20188.8	22812.6	23380.9	16858.1
62.5°	9463.2	9859.0	11677.0	13950.2	17213.0	20180.3	21438.5	21725.4	23993.0	24664.5	18513.6
65°	4783.9	5083.6	6607.5	9345.8	13752.3	19295.3	24834.1	25090.0	26044.2	26640.8	21062.4
67.5°	2906.5	3019.6	3763.2	5198.1	8431.2	15030.3	25942.5	30698.1	30013.9	30330.5	24697.0
70°	2141.7	2225.1	2688.8	3452.2	4848.9	8820.0	22541.1	34700.2	34250.7	34215.3	27383.0
72°	1668.1	1728.9	2138.9	2789.2	3545.5	5291.4	16337.9	33222.9	35463.6	35285.5	27137.0
72.5°	1581.9	1635.6	2008.8	2625.2	3350.4	4796.6	14689.6	32226.3	35376.0	35295.4	26818.9
75°	1245.5	1283.6	1487.2	2030.0	2622.4	2721.3	8049.5	24974.1	31382.3	32687.1	24121.6
77.5°	1030.6	1036.2	1143.7	1477.3	2044.2	1924.0	3954.1	17327.5	22471.9	23906.8	17087.2
80°	839.7	846.8	897.7	1036.2	1546.6	1423.6	1877.4	9963.6	12581.8	12597.3	8125.8
82.5°	668.7	670.1	726.6	757.7	1111.2	1017.9	1075.8	4677.9	5497.8	5288.6	2920.7
85°	470.8	460.9	709.7	622.0	726.6	653.1	593.7	1851.9	2273.2	2174.2	914.7
87.5°	156.9	162.6	315.3	402.9	424.1	370.4	264.4	709.7	858.1	851.0	289.8
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°	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1	5051.1
2.5°	5076.5	5031.3	4964.8	4891.3	4833.4	4774.0	4730.2	4707.6	4682.1	4660.9	4686.4
5°	5130.2	5045.4	4904.1	4765.5	4663.7	4573.3	4508.2	4474.3	4443.2	4422.0	4424.8
7.5°	5217.9	5080.8	4843.3	4641.1	4499.7	4402.2	4335.8	4313.1	4293.3	4287.7	4294.8
10°	5311.2	5109.0	4762.7	4494.1	4332.9	4252.4	4222.7	4238.2	4252.4	4265.1	4279.2
12.5°	5417.2	5134.5	4645.4	4321.6	4184.5	4153.4	4183.1	4250.9	4300.4	4330.1	4348.5
15°	5555.8	5157.1	4509.6	4149.2	4057.3	4092.6	4193.0	4310.3	4396.5	4451.7	4460.2
17.5°	5683.0	5155.7	4335.8	3975.3	3954.1	4057.3	4208.5	4373.9	4489.9	4567.6	4583.2
20°	5814.5	5117.5	4133.6	3805.6	3849.5	4019.1	4215.6	4414.9	4554.9	4645.4	4666.6
22.5°	5937.5	5051.1	3911.7	3651.5	3761.8	3968.2	4188.7	4390.9	4530.8	4604.4	4627.0
25°	6020.9	4935.2	3686.9	3521.5	3684.1	3906.0	4101.1	4263.7	4368.3	4405.0	4410.7
27.5°	6063.3	4783.9	3474.8	3408.4	3603.5	3804.2	3938.5	4019.1	4048.8	4046.0	4040.3
30°	6068.9	4584.6	3292.5	3316.5	3510.2	3654.4	3718.0	3702.4	3664.3	3599.2	3604.9
32.5°	6050.6	4359.8	3139.8	3228.8	3391.4	3472.0	3474.8	3399.9	3298.1	3194.9	3166.6
35°	6056.2	4139.3	3005.5	3129.9	3247.2	3282.6	3250.1	3139.8	3001.2	2868.4	2840.1
37.5°	6118.4	3947.0	2889.6	3015.4	3087.5	3096.0	3049.3	2933.4	2831.6	2701.5	2690.2
40°	6266.8	3809.9	2779.3	2886.7	2927.7	2932.0	2865.5	2783.5	2792.0	2722.7	2721.3
42.5°	6534.0	3750.5	2681.8	2752.4	2777.9	2786.4	2735.5	2683.2	2756.7	2711.4	2695.9
45°	6879.0	3764.6	2599.8	2621.0	2667.6	2707.2	2676.1	2612.5	2640.8	2444.3	2379.2
47.5°	7277.6	3855.1	2534.7	2507.9	2588.4	2663.4	2615.3	2519.2	2418.8	2223.7	2187.0
50°	7744.1	3995.1	2475.4	2396.2	2502.2	2604.0	2555.9	2418.8	2267.5	2172.8	2160.1
52.5°	8230.5	4166.1	2416.0	2273.2	2393.4	2558.8	2534.7	2396.2	2209.6	2116.3	2099.3
55°	8781.8	4338.6	2341.1	2130.4	2276.0	2537.6	2524.8	2314.2	2165.8	2113.5	2100.7
57.5°	9467.4	4535.1	2242.1	1982.0	2165.8	2461.2	2421.6	2264.7	2120.5	2080.9	2076.7
60°	10360.9	4824.9	2099.3	1823.6	2031.5	2343.9	2335.4	2192.6	2048.4	2020.2	2014.5
62.5°	11701.0	5304.1	1902.8	1665.3	1881.6	2144.6	2222.3	2095.1	1972.1	1970.7	1973.5
65°	13779.1	6025.1	1689.3	1526.8	1730.3	1976.3	2090.8	1994.7	1894.3	1922.6	1926.8
67.5°	16188.1	6623.1	1480.1	1391.1	1576.3	1816.6	1972.1	1894.3	1791.1	1864.6	1866.1
70°	16989.6	6088.7	1296.3	1256.8	1416.5	1662.5	1843.4	1784.1	1679.5	1753.0	1745.9
72°	15810.6	4915.4	1177.6	1155.0	1296.3	1535.3	1728.9	1680.9	1577.7	1627.1	1608.8
72.5°	15438.8	4686.4	1147.9	1129.5	1263.8	1502.7	1699.2	1655.4	1552.2	1594.6	1577.7
75°	13772.1	4070.0	986.7	991.0	1102.7	1344.4	1532.4	1518.3	1412.3	1416.5	1410.9
77.5°	9989.1	2984.3	831.2	859.5	938.7	1181.8	1364.2	1355.7	1239.8	1218.6	1214.4
80°	4635.5	1522.5	677.2	689.9	771.9	988.2	1163.5	1152.1	1058.8	1032.0	1016.4
82.5°	1587.6	723.8	508.9	517.4	598.0	795.9	1009.4	1002.3	924.5	872.2	839.7
85°	566.9	360.5	356.2	347.8	426.9	626.3	879.3	841.1	726.6	619.2	616.4
87.5°	183.8	154.1	183.8	182.4	248.8	424.1	639.0	544.3	527.3	438.2	429.8
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)