

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: P318053

Luminaire Tested: **GAN-SA9C-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318053
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-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56510 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

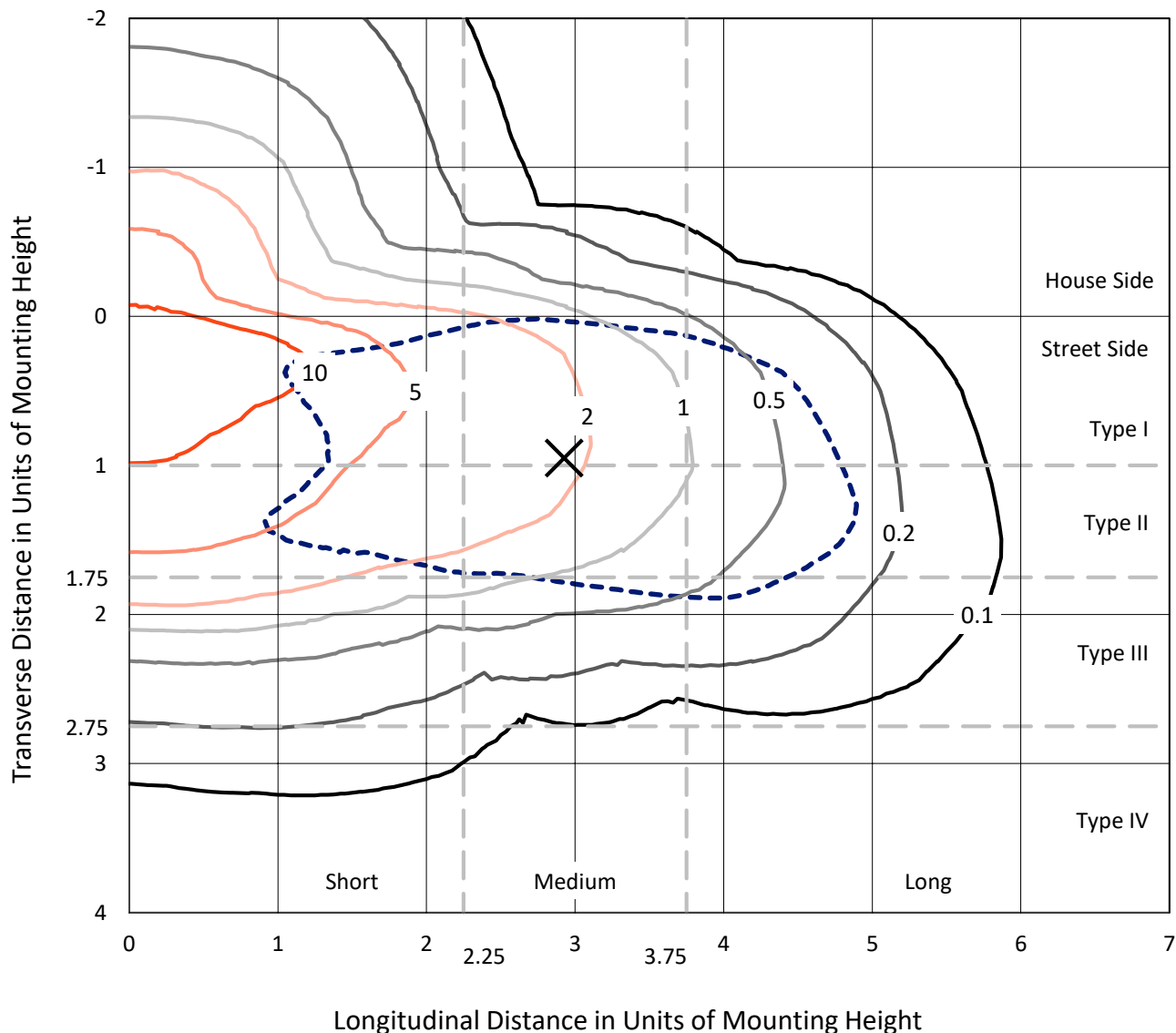
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

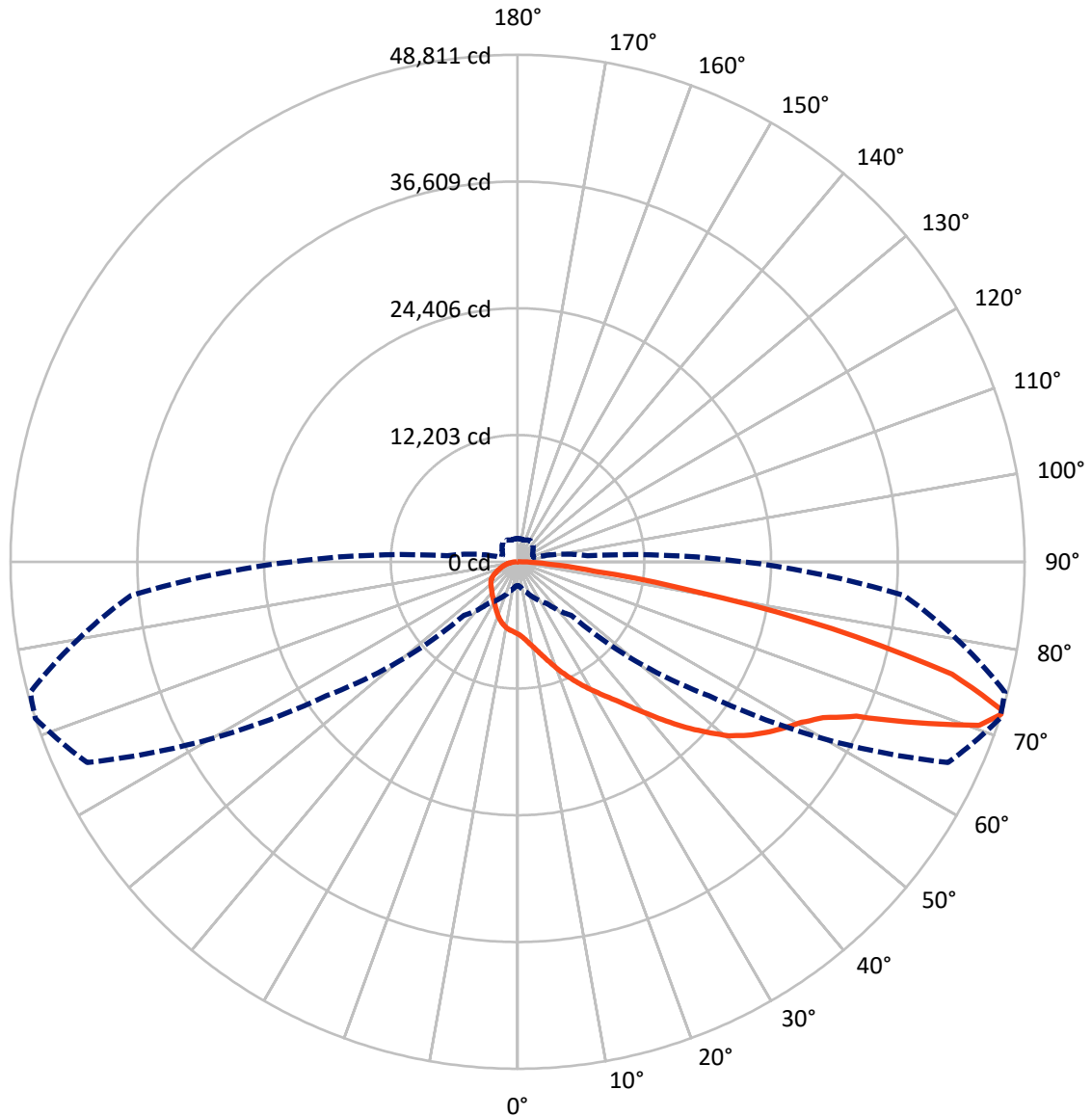
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10483.0	0.0	10483.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	46027.0	0.0	46027.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	56510.0	0.0	56510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.6	1.2
10°-20°	2251.2	4.0
20°-30°	3944.8	7.0
30°-40°	5848.9	10.4
40°-50°	8554.4	15.1
50°-60°	11770.8	20.8
60°-70°	13104.4	23.2
70°-80°	8879.5	15.7
80°-90°	1459.4	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°	56510.0	100.0
0°-180°	56510.0	100.0

Coefficient of Utilization

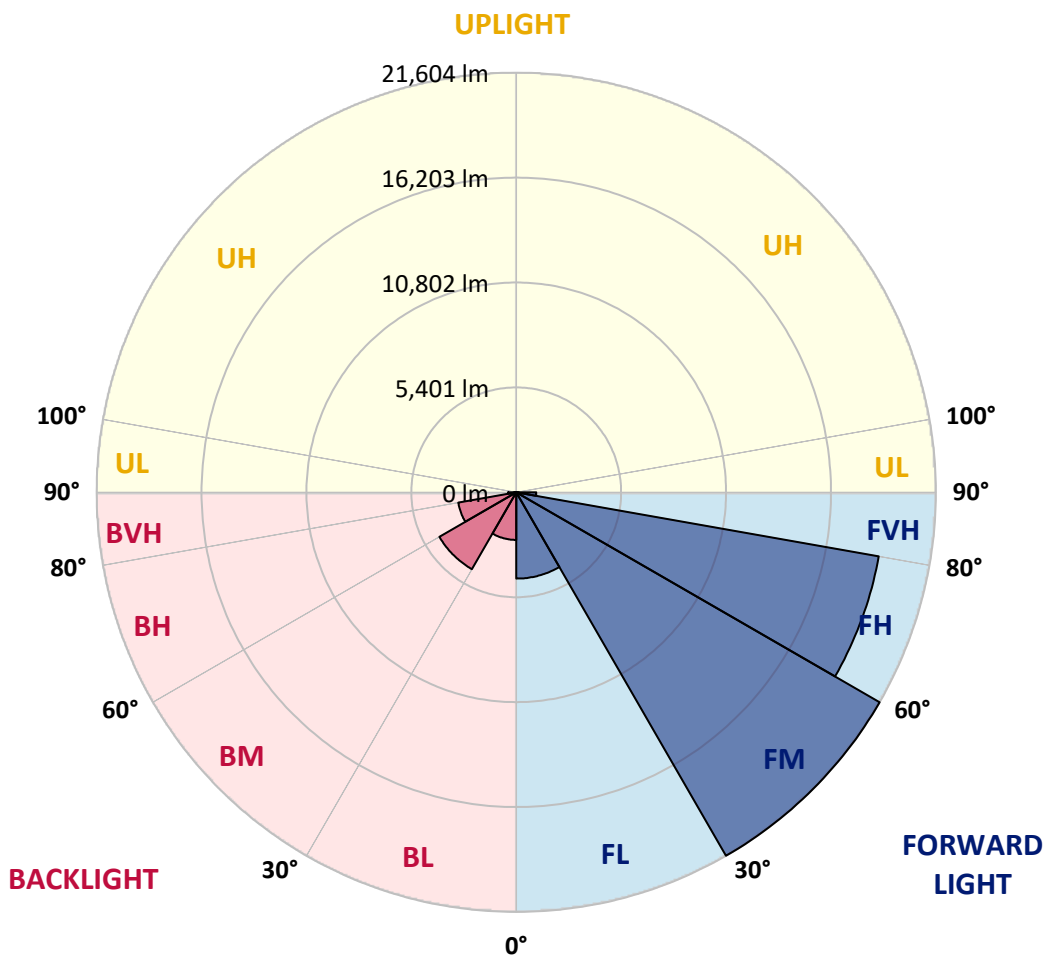


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4442.0	7.9			
FM (30°-60°)	21604.5	38.2			
FH (60°-80°)	18951.1	33.5			G5
FVH (80°-90°)	1029.5	1.8			G5
BL (0°-30°)	2450.5	4.3	B3/2500		
BM (30°-60°)	4569.6	8.1	B3/5000		
BH (60°-80°)	3032.9	5.4	B4/5000		G4/5000
BVH (80°-90°)	430.0	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2
2.5°	7679.9	7668.2	7627.4	7627.4	7549.6	7483.4	7358.9	7275.2	7176.0	7140.9	7024.2
5°	8423.2	8427.1	8376.5	8341.5	8226.7	8086.6	7874.5	7681.9	7489.2	7411.4	7172.1
7.5°	9047.8	9040.0	9026.4	8997.2	8890.2	8746.2	8460.2	8174.1	7890.1	7773.3	7360.8
10°	9448.6	9466.1	9477.8	9491.4	9446.7	9343.5	9073.1	8724.8	8353.2	8193.6	7586.5
12.5°	9651.0	9682.1	9736.6	9830.0	9903.9	9892.2	9695.7	9326.0	8884.3	8683.9	7868.7
15°	9769.7	9810.5	9896.1	10063.5	10271.7	10390.4	10337.8	10003.2	9510.9	9263.8	8213.1
17.5°	9843.6	9876.7	10009.0	10232.8	10542.1	10857.3	10995.5	10715.3	10219.1	9937.0	8608.0
20°	9894.2	9919.5	10084.9	10347.6	10748.4	11250.4	11635.7	11565.6	10999.4	10633.6	9020.5
22.5°	10007.0	10028.5	10186.1	10450.7	10894.3	11542.3	12252.5	12357.5	11822.4	11408.0	9462.2
25°	10322.3	10322.3	10454.6	10639.4	11055.8	11795.2	12773.9	13239.0	12663.0	12180.5	9870.8
27.5°	10923.5	10917.7	10966.3	11030.5	11345.7	12052.0	13239.0	14017.3	13534.7	13007.4	10267.8
30°	11635.7	11674.6	11680.4	11649.3	11797.1	12373.1	13669.0	14838.4	14412.3	13844.1	10674.4
32.5°	12552.1	12577.4	12548.2	12445.1	12423.7	12828.4	14091.2	15698.4	15361.8	14717.7	11046.1
35°	13715.7	13667.0	13575.6	13365.4	13165.0	13437.4	14573.8	16558.4	16428.1	15774.3	11557.8
37.5°	14962.9	14964.8	14852.0	14375.3	14099.0	14215.7	15239.2	17533.3	17718.1	17031.2	12213.5
40°	15963.0	16015.6	16085.6	15459.1	15101.1	15262.5	16085.6	18663.7	19243.6	18521.7	13067.7
42.5°	16661.6	16721.9	16920.3	16527.3	16155.7	16455.3	17081.8	19870.1	20955.8	20241.8	14067.9
45°	17400.9	17434.0	17574.1	17404.8	17167.4	17842.6	18204.5	21119.3	22767.4	22074.7	15186.7
47.5°	18179.2	18214.3	18358.3	18245.4	18120.9	19138.5	19375.9	22296.5	24503.0	24088.5	16381.4
50°	19140.5	19163.8	19300.0	19095.7	19134.6	20115.3	20422.7	23376.4	26322.3	25898.1	17580.0
52.5°	20451.9	20457.7	20646.5	20461.6	20278.7	20831.3	21323.6	24394.0	27748.5	27548.1	18778.5
55°	21479.3	21541.5	22160.3	22121.4	22016.3	21481.2	22076.6	25363.0	29021.0	29116.4	20051.1
57.5°	20823.5	21066.8	22319.8	23203.2	24063.2	23098.1	23094.2	26454.6	30204.0	30655.5	21450.1
60°	18237.6	18568.4	20414.9	22374.3	25065.3	25911.7	25207.3	27787.4	31398.7	32180.9	23203.2
62.5°	13024.9	13569.7	16072.0	19200.8	23691.6	27775.7	29507.5	29902.5	33023.5	33947.7	25481.7
65°	6584.5	6997.0	9094.5	12863.4	18928.4	26557.7	34181.2	34533.4	35846.8	36667.9	28989.9
67.5°	4000.5	4156.1	5179.6	7154.6	11604.5	20687.3	35706.7	42252.2	41310.5	41746.3	33992.4
70°	2947.8	3062.6	3700.8	4751.5	6674.0	12139.6	31025.2	47760.7	47141.9	47093.3	37689.4
72°	2296.0	2379.7	2943.9	3839.0	4880.0	7283.0	22487.2	45727.3	48811.4	48566.2	37350.8
72.5°	2177.3	2251.2	2764.9	3613.3	4611.5	6602.0	20218.4	44355.6	48690.7	48579.8	36913.0
75°	1714.2	1766.8	2046.9	2794.1	3609.4	3745.6	11079.2	34373.8	43193.9	44989.9	33200.5
77.5°	1418.5	1426.2	1574.1	2033.3	2813.6	2648.2	5442.3	23849.2	30929.8	32904.8	23518.4
80°	1155.8	1165.5	1235.6	1426.2	2128.7	1959.4	2584.0	13713.7	17317.3	17338.7	11184.2
82.5°	920.3	922.3	1000.1	1042.9	1529.4	1400.9	1480.7	6438.5	7567.1	7279.1	4019.9
85°	647.9	634.3	976.8	856.1	1000.1	898.9	817.2	2548.9	3128.8	2992.6	1258.9
87.5°	216.0	223.8	433.9	554.5	583.7	509.8	363.9	976.8	1181.1	1171.3	398.9
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°	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2
2.5°	6987.2	6925.0	6833.5	6732.3	6652.6	6570.8	6510.5	6479.4	6444.4	6415.2	6450.2
5°	7061.2	6944.4	6749.8	6559.2	6419.1	6294.5	6205.0	6158.3	6115.5	6086.3	6090.2
7.5°	7181.8	6993.1	6666.2	6387.9	6193.4	6059.1	5967.6	5936.5	5909.3	5901.5	5911.2
10°	7310.2	7032.0	6555.3	6185.6	5963.8	5852.8	5812.0	5833.4	5852.8	5870.4	5889.8
12.5°	7456.2	7067.0	6393.8	5948.2	5759.5	5716.6	5757.5	5850.9	5919.0	5959.9	5985.2
15°	7646.8	7098.1	6207.0	5710.8	5584.3	5633.0	5771.1	5932.6	6051.3	6127.2	6138.9
17.5°	7822.0	7096.2	5967.6	5471.5	5442.3	5584.3	5792.5	6020.2	6179.7	6286.8	6308.2
20°	8002.9	7043.7	5689.4	5238.0	5298.3	5531.8	5802.3	6076.6	6269.2	6393.8	6423.0
22.5°	8172.2	6952.2	5383.9	5025.9	5177.7	5461.8	5765.3	6043.5	6236.2	6337.3	6368.5
25°	8287.0	6792.7	5074.5	4846.9	5070.7	5376.1	5644.7	5868.4	6012.4	6063.0	6070.8
27.5°	8345.4	6584.5	4782.7	4691.2	4959.7	5236.0	5420.9	5531.8	5572.7	5568.8	5561.0
30°	8353.2	6310.1	4531.7	4564.8	4831.3	5029.8	5117.4	5095.9	5043.4	4953.9	4961.7
32.5°	8327.9	6000.7	4321.5	4444.1	4667.9	4778.8	4782.7	4679.6	4539.5	4397.4	4358.5
35°	8335.6	5697.2	4136.7	4307.9	4469.4	4518.1	4473.3	4321.5	4130.9	3947.9	3909.0
37.5°	8421.3	5432.6	3977.1	4150.3	4249.5	4261.2	4197.0	4037.5	3897.4	3718.3	3702.8
40°	8625.6	5243.8	3825.4	3973.2	4029.7	4035.5	3944.1	3831.2	3842.9	3747.5	3745.6
42.5°	8993.3	5162.1	3691.1	3788.4	3823.4	3835.1	3765.0	3693.1	3794.2	3732.0	3710.6
45°	9468.1	5181.6	3578.3	3607.4	3671.7	3726.1	3683.3	3595.8	3634.7	3364.2	3274.7
47.5°	10016.8	5306.1	3488.7	3451.8	3562.7	3665.8	3599.7	3467.3	3329.2	3060.7	3010.1
50°	10658.9	5498.7	3407.0	3298.1	3444.0	3584.1	3517.9	3329.2	3121.0	2990.6	2973.1
52.5°	11328.2	5734.2	3325.3	3128.8	3294.2	3521.8	3488.7	3298.1	3041.2	2912.8	2889.5
55°	12087.1	5971.5	3222.2	2932.3	3132.7	3492.6	3475.1	3185.2	2980.9	2908.9	2891.4
57.5°	13030.8	6242.0	3086.0	2728.0	2980.9	3387.6	3333.1	3117.1	2918.6	2864.2	2858.3
60°	14260.5	6640.9	2889.5	2510.0	2796.1	3226.1	3214.4	3017.9	2819.4	2780.5	2772.7
62.5°	16105.1	7300.5	2619.0	2292.1	2589.8	2951.7	3058.7	2883.6	2714.3	2712.4	2716.3
65°	18965.3	8292.8	2325.2	2101.4	2381.6	2720.2	2877.8	2745.5	2607.3	2646.2	2652.1
67.5°	22280.9	9115.9	2037.2	1914.6	2169.5	2500.3	2714.3	2607.3	2465.3	2566.5	2568.4
70°	23384.2	8380.4	1784.3	1729.8	1949.7	2288.2	2537.3	2455.6	2311.6	2412.7	2403.0
72°	21761.4	6765.4	1620.8	1589.7	1784.3	2113.1	2379.7	2313.5	2171.5	2239.6	2214.3
72.5°	21249.7	6450.2	1580.0	1554.7	1739.5	2068.3	2338.8	2278.5	2136.4	2194.8	2171.5
75°	18955.6	5601.8	1358.1	1364.0	1517.7	1850.4	2109.2	2089.7	1943.8	1949.7	1941.9
77.5°	13748.7	4107.5	1144.1	1183.0	1292.0	1626.7	1877.7	1866.0	1706.4	1677.2	1671.4
80°	6380.2	2095.6	932.0	949.5	1062.4	1360.1	1601.4	1585.8	1457.4	1420.4	1399.0
82.5°	2185.1	996.2	700.5	712.1	823.1	1095.5	1389.3	1379.5	1272.5	1200.5	1155.8
85°	780.3	496.2	490.3	478.7	587.6	862.0	1210.3	1157.7	1000.1	852.2	848.4
87.5°	252.9	212.1	252.9	251.0	342.5	583.7	879.5	749.1	725.8	603.2	591.5
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)