

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: P319022

Luminaire Tested: **GAN-SA8D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56235 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

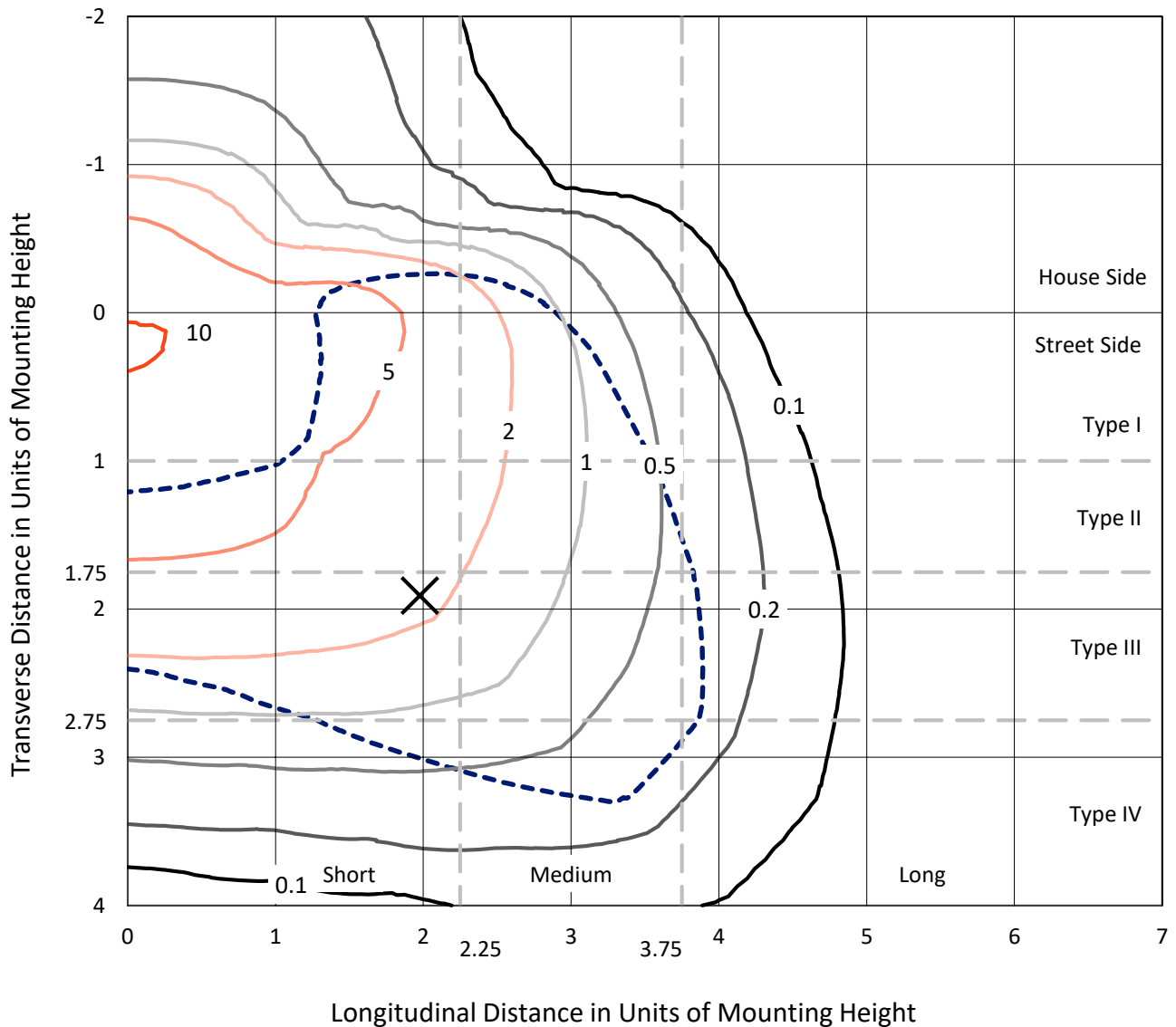
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

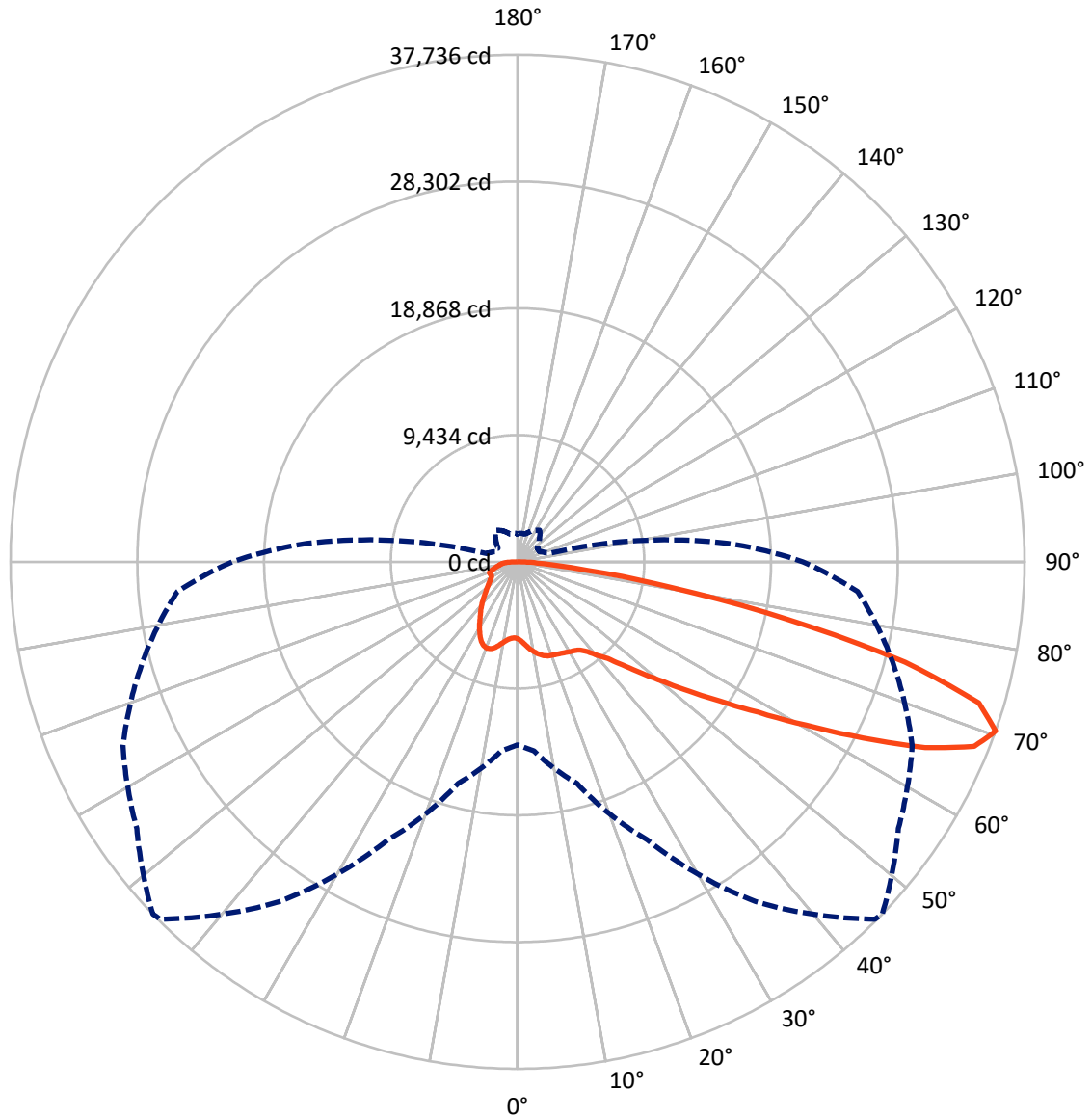
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12888.9	0.0	12888.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	43346.1	0.0	43346.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	56235.0	0.0	56235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.0	1.0
10°-20°	1945.9	3.5
20°-30°	3244.6	5.8
30°-40°	4604.2	8.2
40°-50°	6772.6	12.0
50°-60°	11469.3	20.4
60°-70°	16280.5	29.0
70°-80°	9890.5	17.6
80°-90°	1443.4	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°	56235.0	100.0
0°-180°	56235.0	100.0

Coefficient of Utilization

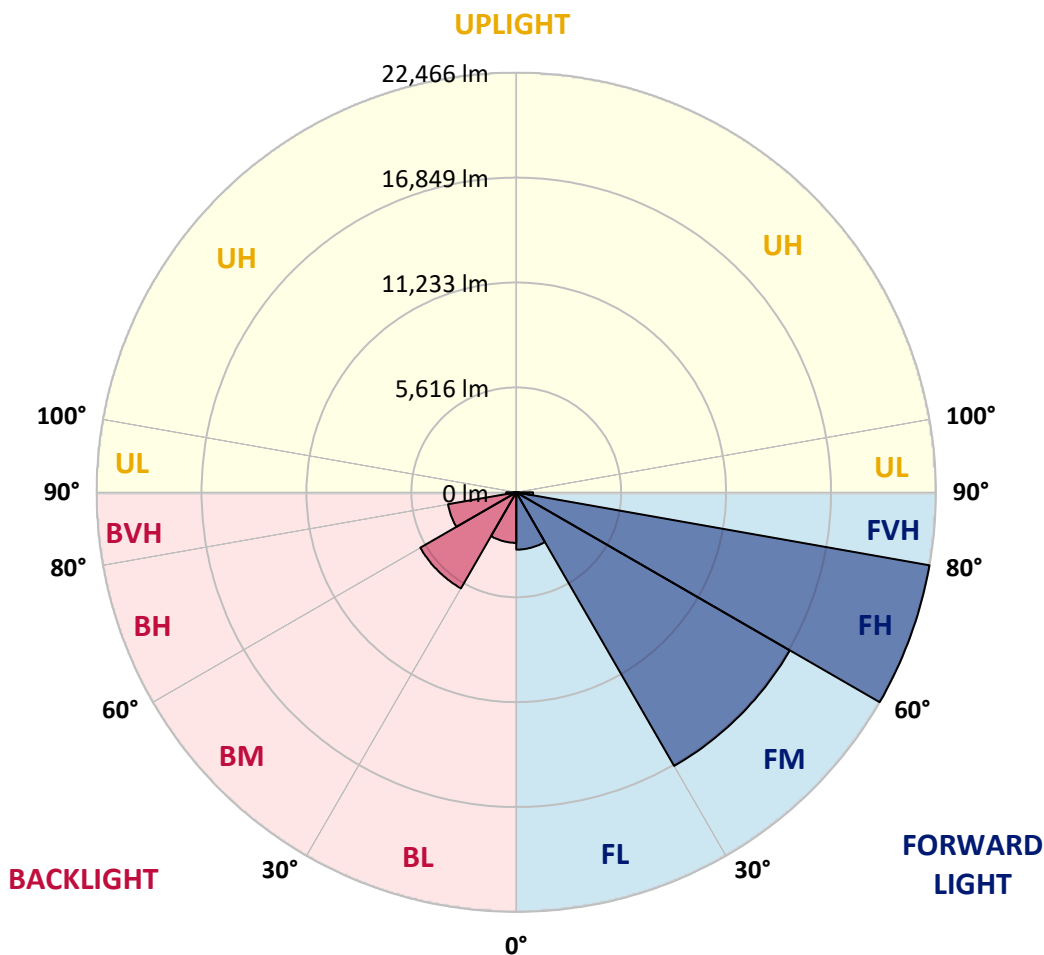


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3068.4	5.5			
FM (30°-60°)	16913.0	30.1			
FH (60°-80°)	22465.6	39.9			G5
FVH (80°-90°)	899.1	1.6			G5
BL (0°-30°)	2706.1	4.8	B4/5000		
BM (30°-60°)	5933.1	10.6	B4/8500		
BH (60°-80°)	3705.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	544.3	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2
2.5°	6016.0	6019.8	6027.5	6008.3	5954.4	5939.0	5933.2	5877.4	5840.9	5787.0	5740.8
5°	6497.1	6501.0	6489.4	6435.5	6316.2	6227.7	6220.0	6093.0	5977.5	5854.3	5762.0
7.5°	6999.4	7005.2	6968.6	6866.6	6699.2	6545.2	6535.6	6362.4	6187.3	6000.6	5862.0
10°	7444.0	7420.9	7361.2	7218.8	7020.6	6832.0	6824.3	6643.4	6441.3	6216.1	6031.4
12.5°	7740.4	7721.1	7644.1	7470.9	7253.5	7080.2	7064.9	6897.4	6701.1	6454.8	6233.5
15°	7903.9	7917.4	7813.5	7617.2	7405.5	7259.2	7245.8	7126.4	6951.3	6703.0	6449.0
17.5°	7925.1	7936.7	7836.6	7642.2	7469.0	7368.9	7363.1	7284.2	7157.2	6918.6	6653.0
20°	7801.9	7809.6	7726.9	7567.1	7453.6	7422.8	7420.9	7386.2	7291.9	7080.2	6822.4
22.5°	7623.0	7628.7	7569.1	7453.6	7415.1	7463.2	7476.7	7463.2	7395.9	7197.6	6955.2
25°	7578.7	7574.8	7513.3	7395.9	7428.6	7530.6	7547.9	7553.7	7507.5	7334.3	7124.5
27.5°	7792.3	7778.8	7661.4	7472.8	7494.0	7617.2	7640.3	7696.1	7667.2	7515.2	7317.0
30°	8410.1	8387.0	8146.4	7765.4	7661.4	7725.0	7753.8	7842.4	7848.1	7721.1	7572.9
32.5°	9453.2	9424.3	8993.2	8311.9	7944.3	7834.7	7861.6	7994.4	8065.6	7967.4	7807.7
35°	10771.4	10738.7	10172.9	9241.5	8417.8	8044.4	8063.7	8169.5	8311.9	8173.4	7961.7
37.5°	12145.5	12066.6	11522.0	10334.6	9170.3	8492.8	8492.8	8506.3	8573.7	8285.0	8142.6
40°	13511.9	13433.0	12940.4	11620.1	10144.1	9199.1	9154.9	8856.6	8802.7	8554.4	8506.3
42.5°	14782.1	14759.0	14468.4	13073.1	11287.2	9893.9	9832.3	9326.1	9337.7	9183.7	9185.7
45°	16133.1	16133.1	15896.4	14539.6	12619.0	11010.1	10948.5	10203.7	10319.2	10248.0	10419.3
47.5°	17235.8	17270.5	17237.8	16067.7	14168.2	12428.4	12316.8	11420.0	11743.3	11987.7	12486.2
50°	18361.7	18415.6	18421.3	17743.9	16040.7	14114.3	13987.3	13034.7	13756.3	14456.9	15436.4
52.5°	19995.6	20116.8	19633.8	19416.3	18334.7	16115.8	15990.7	15111.2	16315.9	17299.4	18987.1
55°	21510.2	21404.3	21059.8	21194.6	20790.4	18394.4	18300.1	17528.4	19168.1	20445.9	22637.9
57.5°	22330.0	22322.3	22668.7	23246.1	23438.5	21204.2	21125.3	20374.7	22383.9	23344.2	26065.5
60°	23292.3	23305.7	24164.1	25474.6	26267.5	24702.9	24668.3	24098.6	25507.4	26050.1	28754.0
62.5°	23427.0	23669.5	25147.5	27403.0	28915.7	28790.6	28867.5	27453.0	28301.7	28209.4	30761.3
65°	21877.8	22197.2	24872.3	27986.1	31548.4	33261.2	33332.4	30826.7	30505.3	30055.0	31479.1
67.5°	18702.3	19175.7	22081.7	26717.9	32416.3	36565.6	36665.6	33442.1	32333.6	30680.4	29750.9
70°	13610.1	14135.5	17060.7	22818.8	30869.0	37622.1	37735.7	34598.7	32402.9	28900.3	25397.7
72.5°	8221.5	8633.3	11044.7	16799.0	26053.9	35697.6	35899.7	33132.2	29583.5	24479.7	18754.3
75°	3610.4	3879.8	5340.5	9680.3	18652.3	29535.3	29787.5	28359.5	24037.0	17790.1	11085.1
77.5°	1537.7	1614.7	2190.1	4205.0	10544.4	20182.3	20528.7	20721.1	16308.2	9680.3	4684.2
80°	958.4	989.2	1239.4	1903.3	4934.4	11335.3	11708.7	12191.7	8098.3	3558.4	1635.8
82.5°	583.1	617.8	823.7	1150.9	2569.2	5138.4	5317.4	5658.0	3142.7	1537.7	846.8
85°	350.3	375.3	504.2	727.5	1462.6	2020.7	2018.8	2232.4	1479.9	989.2	446.5
87.5°	167.4	186.7	269.4	377.2	737.1	758.3	710.1	804.4	898.7	648.6	225.2
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°	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2	5729.2
2.5°	5725.4	5717.7	5692.7	5673.4	5669.6	5658.0	5648.4	5654.2	5661.9	5663.8	5663.8
5°	5723.5	5702.3	5669.6	5656.1	5673.4	5696.5	5725.4	5763.9	5787.0	5804.3	5815.8
7.5°	5815.8	5775.4	5738.9	5731.2	5765.8	5827.4	5892.8	5973.7	6029.5	6068.0	6075.7
10°	5969.8	5919.8	5883.2	5890.9	5952.5	6041.0	6133.4	6237.3	6322.0	6374.0	6377.8
12.5°	6146.9	6098.8	6064.1	6096.8	6198.8	6306.6	6402.8	6493.3	6570.3	6622.2	6622.2
15°	6350.9	6316.2	6275.8	6350.9	6489.4	6585.6	6626.1	6670.3	6712.7	6751.2	6743.5
17.5°	6547.2	6514.4	6493.3	6581.8	6726.1	6770.4	6743.5	6710.7	6710.7	6731.9	6735.8
20°	6716.5	6687.6	6701.1	6787.7	6862.8	6816.6	6716.5	6612.6	6570.3	6581.8	6593.3
22.5°	6864.7	6851.2	6891.6	6932.1	6878.2	6716.5	6531.8	6391.3	6339.3	6335.5	6339.3
25°	7037.9	7036.0	7086.0	7012.9	6774.3	6476.0	6227.7	6091.1	6062.2	6085.3	6123.8
27.5°	7253.5	7274.6	7299.6	7032.1	6562.6	6112.2	5860.1	5765.8	5794.7	5850.5	5887.1
30°	7528.7	7586.4	7532.5	6984.0	6258.5	5696.5	5456.0	5429.0	5507.9	5586.8	5625.3
32.5°	7796.2	7886.6	7755.7	6858.9	5865.9	5255.8	5069.1	5061.4	5157.7	5234.6	5288.5
35°	8011.7	8190.7	7923.2	6610.7	5411.7	4849.7	4713.1	4661.1	4695.8	4786.2	4847.8
37.5°	8292.7	8591.0	8038.6	6231.5	4919.0	4514.9	4355.2	4235.8	4205.0	4241.6	4272.4
40°	8806.5	9201.0	8092.5	5702.3	4437.9	4180.0	4018.4	3843.2	3722.0	3633.5	3635.4
42.5°	9645.6	9995.9	8057.9	5059.5	3993.3	3852.9	3670.0	3468.0	3271.7	3071.5	3056.1
45°	11008.2	11177.5	7954.0	4378.2	3602.7	3510.3	3339.0	3136.9	2875.2	2648.1	2626.9
47.5°	13188.6	12813.3	7792.3	3783.6	3258.2	3219.7	3061.9	2829.0	2551.9	2369.1	2353.7
50°	16162.0	15174.7	7713.4	3310.1	2954.1	2965.7	2836.7	2590.4	2328.6	2193.9	2178.5
52.5°	19718.5	17924.8	7865.4	2944.5	2709.7	2750.1	2653.9	2422.9	2203.6	2097.7	2082.3
55°	23407.7	20773.1	8029.0	2678.9	2478.8	2557.7	2524.9	2334.4	2136.2	2038.0	2024.6
57.5°	26565.8	22899.7	7701.9	2463.4	2272.8	2396.0	2424.9	2278.6	2101.6	2013.0	1997.6
60°	28553.9	23756.1	6843.5	2261.3	2109.3	2267.1	2367.1	2263.2	2115.0	2107.3	2095.8
62.5°	29496.9	23681.0	5556.0	2101.6	2007.3	2211.3	2409.5	2349.8	2269.0	2338.3	2344.0
65°	29073.5	22549.4	4137.7	1995.7	1934.1	2232.4	2536.5	2513.4	2313.3	2382.5	2392.2
67.5°	26286.8	19849.3	3063.8	1903.3	1853.3	2292.1	2767.4	2567.3	2226.7	2276.7	2245.9
70°	21246.5	15736.7	2363.3	1799.4	1770.5	2284.4	2871.4	2534.6	2132.3	2143.9	2061.1
72.5°	14651.2	10731.0	1922.6	1703.2	1651.2	2082.3	2798.2	2453.7	2053.4	1964.9	1855.2
75°	7967.4	5760.0	1633.9	1603.1	1441.5	1828.3	2663.5	2396.0	1982.2	1864.8	1803.3
77.5°	3135.0	2390.2	1418.4	1466.5	1260.5	1614.7	2513.4	2286.3	1884.1	1730.1	1699.3
80°	1279.8	1220.1	1175.9	1268.2	1083.5	1412.6	2332.5	2157.4	1766.7	1605.0	1543.5
82.5°	725.5	758.3	914.1	1000.7	879.5	1301.0	2245.9	2053.4	1626.2	1437.6	1364.5
85°	371.4	444.6	637.0	717.8	646.6	1106.6	2068.8	1797.5	1304.8	1100.8	1106.6
87.5°	179.0	248.3	402.2	450.3	419.5	800.6	1545.4	1302.9	1016.1	804.4	779.4
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)