

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: P319021

Luminaire Tested: **GAN-SA7D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319021
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-SA7D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 49632 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

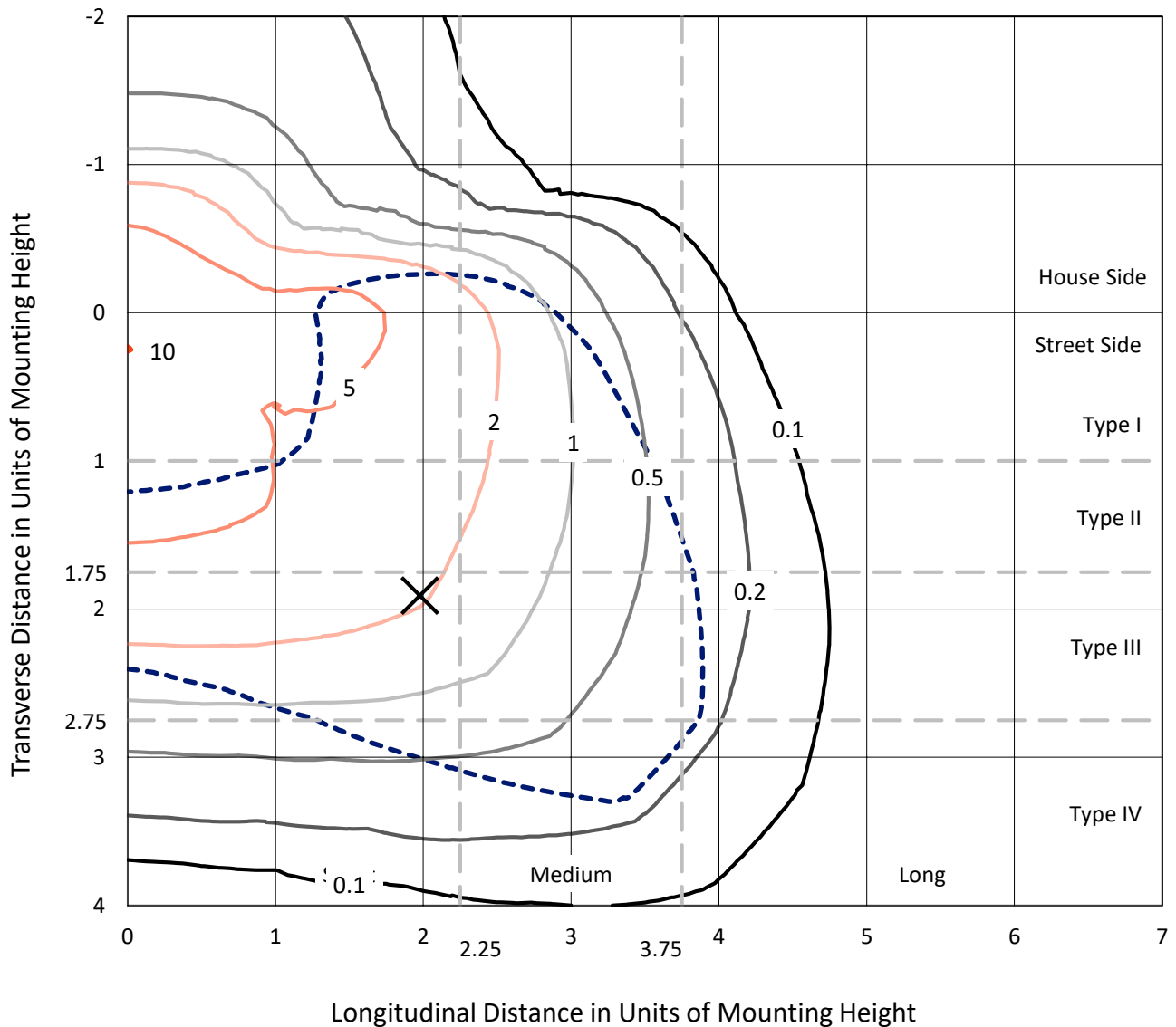
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

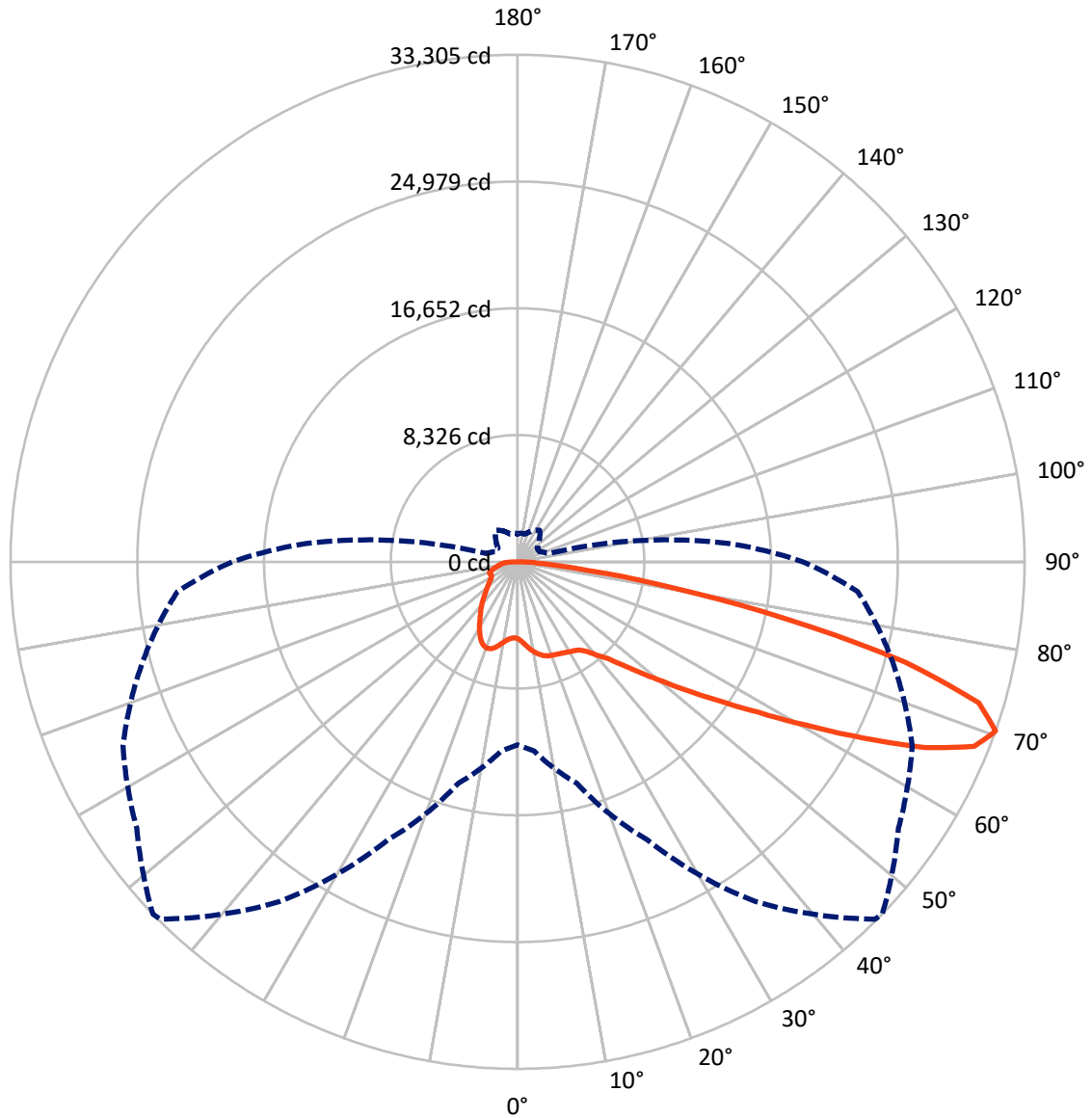
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	11375.5	0.0	11375.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	38256.5	0.0	38256.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	49632.0	0.0	49632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.5	1.0
10°-20°	1717.4	3.5
20°-30°	2863.6	5.8
30°-40°	4063.6	8.2
40°-50°	5977.3	12.0
50°-60°	10122.6	20.4
60°-70°	14368.9	29.0
70°-80°	8729.2	17.6
80°-90°	1273.9	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°	49632.0	100.0
0°-180°	49632.0	100.0

Coefficient of Utilization

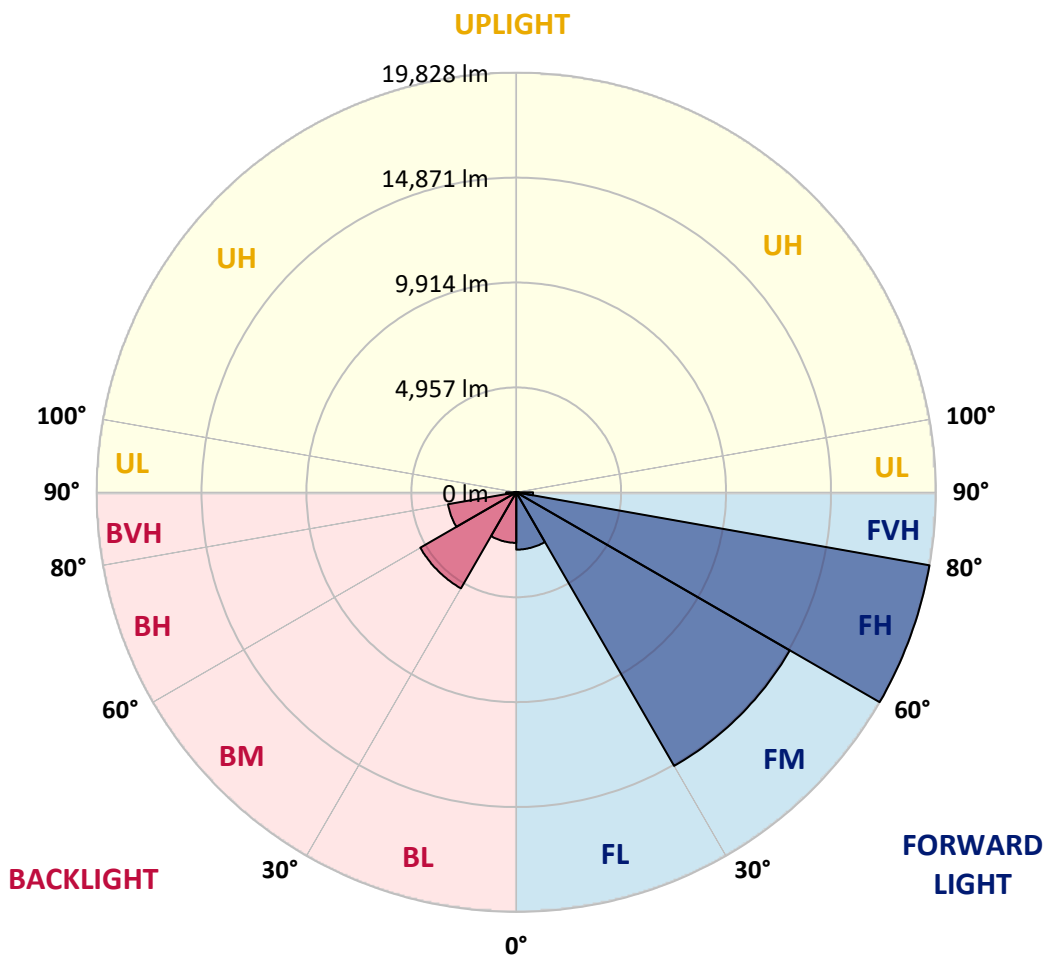


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2708.2	5.5			
FM (30°-60°)	14927.1	30.1			
FH (60°-80°)	19827.7	39.9			G5
FVH (80°-90°)	793.5	1.6			G5
BL (0°-30°)	2388.3	4.8	B3/2500		
BM (30°-60°)	5236.5	10.6	B4/8500		
BH (60°-80°)	3270.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	480.4	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5
2.5°	5309.6	5313.0	5319.8	5302.8	5255.3	5241.7	5236.6	5187.3	5155.0	5107.5	5066.7
5°	5734.2	5737.6	5727.4	5679.9	5574.6	5496.4	5489.7	5377.6	5275.6	5166.9	5085.4
7.5°	6177.6	6182.7	6150.4	6060.4	5912.6	5776.7	5768.2	5615.3	5460.8	5296.0	5173.7
10°	6569.9	6549.5	6496.9	6371.2	6196.2	6029.8	6023.0	5863.3	5685.0	5486.3	5323.2
12.5°	6831.5	6814.5	6746.6	6593.7	6401.8	6248.9	6235.3	6087.5	5914.3	5696.9	5501.5
15°	6975.9	6987.8	6896.0	6722.8	6536.0	6406.9	6395.0	6289.7	6135.1	5916.0	5691.8
17.5°	6994.6	7004.7	6916.4	6744.9	6592.0	6503.7	6498.6	6428.9	6316.8	6106.2	5871.8
20°	6885.8	6892.6	6819.6	6678.6	6578.4	6551.2	6549.5	6519.0	6435.7	6248.9	6021.3
22.5°	6727.9	6733.0	6680.3	6578.4	6544.4	6586.9	6598.8	6586.9	6527.5	6352.5	6138.5
25°	6688.8	6685.4	6631.1	6527.5	6556.3	6646.4	6661.6	6666.7	6626.0	6473.1	6288.0
27.5°	6877.4	6865.5	6761.9	6595.4	6614.1	6722.8	6743.2	6792.4	6767.0	6632.8	6457.8
30°	7422.6	7402.2	7189.9	6853.6	6761.9	6817.9	6843.4	6921.5	6926.6	6814.5	6683.7
32.5°	8343.2	8317.7	7937.2	7336.0	7011.5	6914.7	6938.5	7055.7	7118.5	7031.9	6890.9
35°	9506.7	9477.8	8978.4	8156.3	7429.4	7099.9	7116.8	7210.3	7336.0	7213.7	7026.8
37.5°	10719.4	10649.8	10169.1	9121.1	8093.5	7495.6	7495.6	7507.5	7567.0	7312.2	7186.5
40°	11925.4	11855.8	11420.9	10255.7	8953.0	8119.0	8079.9	7816.6	7769.1	7550.0	7507.5
42.5°	13046.4	13026.0	12769.6	11538.1	9961.9	8732.2	8677.8	8231.1	8241.3	8105.4	8107.1
45°	14238.8	14238.8	14029.9	12832.4	11137.3	9717.3	9662.9	9005.6	9107.5	9044.7	9195.9
47.5°	15212.1	15242.6	15213.7	14181.0	12504.6	10969.1	10870.6	10079.1	10364.4	10580.2	11020.1
50°	16205.7	16253.3	16258.3	15660.5	14157.3	12457.0	12344.9	11504.2	12141.1	12759.4	13623.9
52.5°	17647.7	17754.8	17328.4	17136.5	16181.9	14223.5	14113.1	13336.9	14400.2	15268.1	16757.7
55°	18984.5	18891.1	18587.0	18705.9	18349.2	16234.6	16151.3	15470.2	16917.4	18045.2	19979.8
57.5°	19708.1	19701.3	20007.0	20516.6	20686.4	18714.4	18644.8	17982.4	19755.6	20603.2	23004.9
60°	20557.3	20569.2	21326.8	22483.5	23183.3	21802.4	21771.8	21269.0	22512.3	22991.3	25377.8
62.5°	20676.2	20890.2	22194.7	24185.4	25520.4	25410.0	25478.0	24229.6	24978.6	24897.1	27149.3
65°	19308.9	19590.9	21951.8	24700.1	27844.0	29355.7	29418.6	27207.1	26923.4	26526.0	27782.9
67.5°	16506.3	16924.2	19489.0	23580.7	28610.1	32272.1	32360.4	29515.4	28537.0	27078.0	26257.6
70°	12012.0	12475.7	15057.5	20139.5	27244.5	33204.6	33304.8	30536.2	28598.2	25506.9	22415.5
72.5°	7256.1	7619.6	9747.9	14826.5	22994.7	31506.1	31684.4	29241.9	26109.8	21605.3	16552.2
75°	3186.4	3424.2	4713.4	8543.6	16462.2	26067.4	26289.9	25029.6	21214.7	15701.2	9783.5
77.5°	1357.1	1425.1	1932.9	3711.3	9306.3	17812.5	18118.2	18288.1	14393.4	8543.6	4134.2
80°	845.9	873.0	1093.9	1679.8	4355.0	10004.4	10333.9	10760.2	7147.4	3140.6	1443.8
82.5°	514.7	545.2	727.0	1015.7	2267.5	4535.1	4693.0	4993.7	2773.7	1357.1	747.4
85°	309.1	331.2	445.0	642.0	1290.9	1783.5	1781.8	1970.3	1306.2	873.0	394.1
87.5°	147.8	164.8	237.8	332.9	650.5	669.2	626.8	710.0	793.2	572.4	198.7
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°	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5	5056.5
2.5°	5053.1	5046.3	5024.3	5007.3	5003.9	4993.7	4985.2	4990.3	4997.1	4998.8	4998.8
5°	5051.4	5032.7	5003.9	4992.0	5007.3	5027.7	5053.1	5087.1	5107.5	5122.8	5133.0
7.5°	5133.0	5097.3	5065.0	5058.2	5088.8	5143.2	5200.9	5272.2	5321.5	5355.5	5362.3
10°	5268.8	5224.7	5192.4	5199.2	5253.6	5331.7	5413.2	5504.9	5579.7	5625.5	5628.9
12.5°	5425.1	5382.6	5352.1	5380.9	5471.0	5566.1	5651.0	5730.8	5798.8	5844.6	5844.6
15°	5605.2	5574.6	5538.9	5605.2	5727.4	5812.4	5848.0	5887.1	5924.5	5958.4	5951.7
17.5°	5778.4	5749.5	5730.8	5809.0	5936.4	5975.4	5951.7	5922.8	5922.8	5941.5	5944.9
20°	5927.9	5902.4	5914.3	5990.7	6057.0	6016.2	5927.9	5836.2	5798.8	5809.0	5819.2
22.5°	6058.7	6046.8	6082.4	6118.1	6070.6	5927.9	5764.8	5640.8	5595.0	5591.6	5595.0
25°	6211.5	6209.8	6254.0	6189.5	5978.8	5715.6	5496.4	5375.9	5350.4	5370.8	5404.7
27.5°	6401.8	6420.5	6442.5	6206.4	5792.0	5394.5	5172.0	5088.8	5114.3	5163.5	5195.8
30°	6644.7	6695.6	6648.1	6164.0	5523.6	5027.7	4815.3	4791.6	4861.2	4930.8	4964.8
32.5°	6880.8	6960.6	6845.1	6053.6	5177.1	4638.7	4473.9	4467.1	4552.1	4620.0	4667.6
35°	7071.0	7229.0	6992.9	5834.5	4776.3	4280.3	4159.7	4113.8	4144.4	4224.2	4278.6
37.5°	7319.0	7582.2	7094.8	5499.8	4341.4	3984.8	3843.8	3738.5	3711.3	3743.6	3770.7
40°	7772.5	8120.7	7142.3	5032.7	3916.8	3689.2	3546.5	3392.0	3285.0	3206.8	3208.5
42.5°	8513.0	8822.2	7111.8	4465.4	3524.5	3400.5	3239.1	3060.8	2887.5	2710.9	2697.3
45°	9715.6	9865.1	7020.0	3864.2	3179.7	3098.1	2947.0	2768.6	2537.6	2337.2	2318.5
47.5°	11640.0	11308.8	6877.4	3339.3	2875.6	2841.6	2702.4	2496.8	2252.3	2090.9	2077.3
50°	14264.3	13392.9	6807.7	2921.5	2607.2	2617.4	2503.6	2286.2	2055.2	1936.3	1922.7
52.5°	17403.2	15820.1	6941.9	2598.8	2391.5	2427.2	2342.3	2138.5	1944.8	1851.4	1837.8
55°	20659.2	18334.0	7086.3	2364.4	2187.7	2257.3	2228.5	2060.3	1885.4	1798.7	1786.9
57.5°	23446.5	20210.8	6797.5	2174.1	2006.0	2114.7	2140.2	2011.1	1854.8	1776.7	1763.1
60°	25201.1	20966.7	6040.0	1995.8	1861.6	2000.9	2089.2	1997.5	1866.7	1859.9	1849.7
62.5°	26033.4	20900.4	4903.7	1854.8	1771.6	1951.6	2126.6	2073.9	2002.6	2063.7	2068.8
65°	25659.7	19901.7	3651.8	1761.4	1707.0	1970.3	2238.7	2218.3	2041.6	2102.8	2111.3
67.5°	23200.2	17518.7	2704.1	1679.8	1635.7	2023.0	2442.5	2265.8	1965.2	2009.4	1982.2
70°	18751.8	13888.9	2085.8	1588.1	1562.6	2016.2	2534.2	2237.0	1882.0	1892.2	1819.1
72.5°	12930.9	9471.0	1696.8	1503.2	1457.3	1837.8	2469.7	2165.6	1812.3	1734.2	1637.4
75°	7031.9	5083.7	1442.1	1414.9	1272.2	1613.6	2350.8	2114.7	1749.5	1645.9	1591.5
77.5°	2766.9	2109.6	1251.8	1294.3	1112.5	1425.1	2218.3	2017.9	1662.9	1527.0	1499.8
80°	1129.5	1076.9	1037.8	1119.3	956.3	1246.7	2058.6	1904.1	1559.3	1416.6	1362.2
82.5°	640.3	669.2	806.8	883.2	776.2	1148.2	1982.2	1812.3	1435.3	1268.8	1204.3
85°	327.8	392.4	562.2	633.6	570.7	976.7	1825.9	1586.4	1151.6	971.6	976.7
87.5°	158.0	219.1	355.0	397.5	370.3	706.6	1363.9	1149.9	896.8	710.0	687.9
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)