

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: P317822

Luminaire Tested: **GAN-SA8D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63579 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

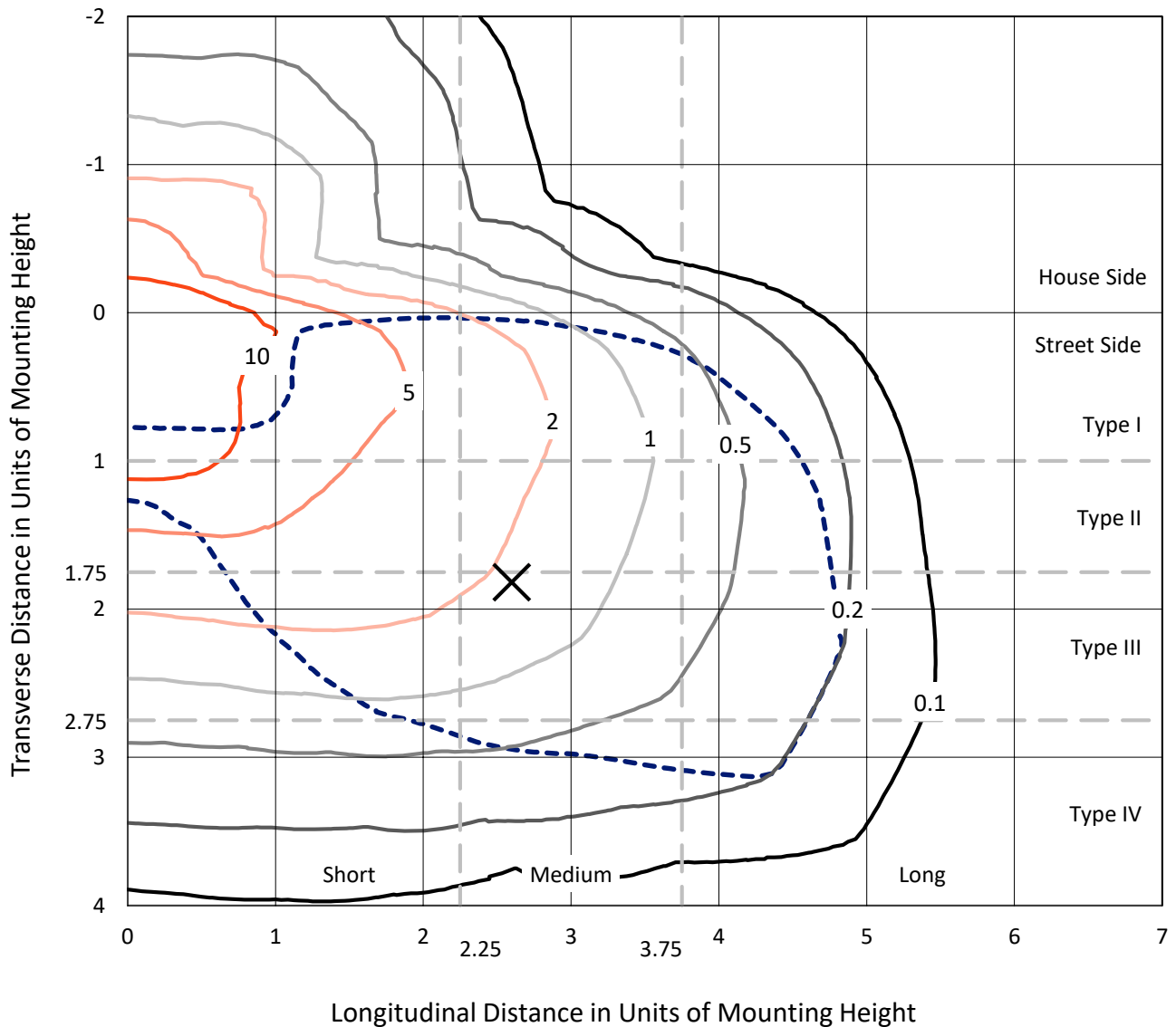
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

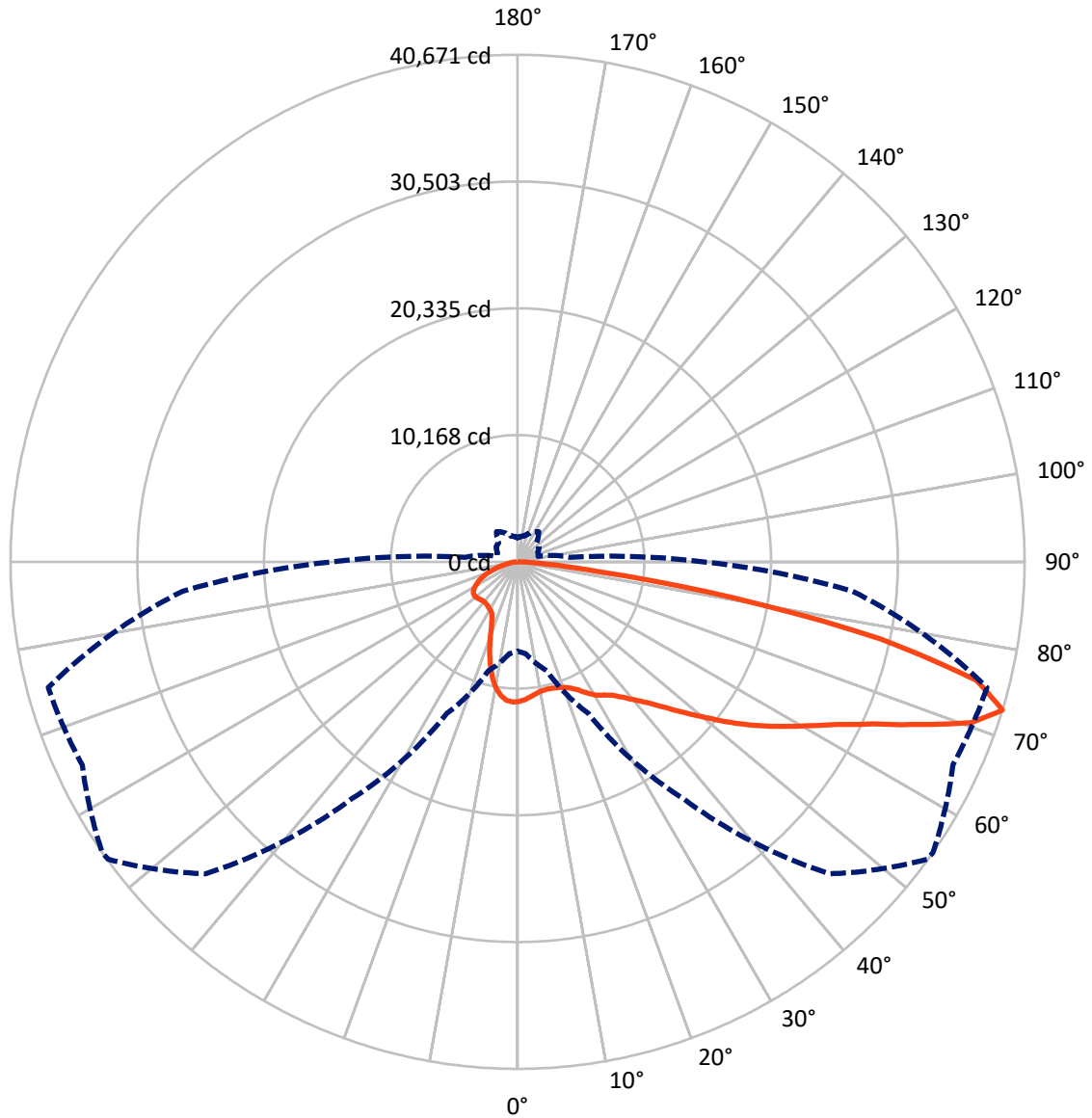
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11817.3	0.0	11817.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	51761.7	0.0	51761.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	63579.0	0.0	63579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.7	1.6
10°-20°	2701.6	4.2
20°-30°	4454.3	7.0
30°-40°	6589.0	10.4
40°-50°	9196.8	14.5
50°-60°	11974.5	18.8
60°-70°	14716.3	23.1
70°-80°	11535.8	18.1
80°-90°	1396.0	2.2
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°	63579.0	100.0
0°-180°	63579.0	100.0

Coefficient of Utilization

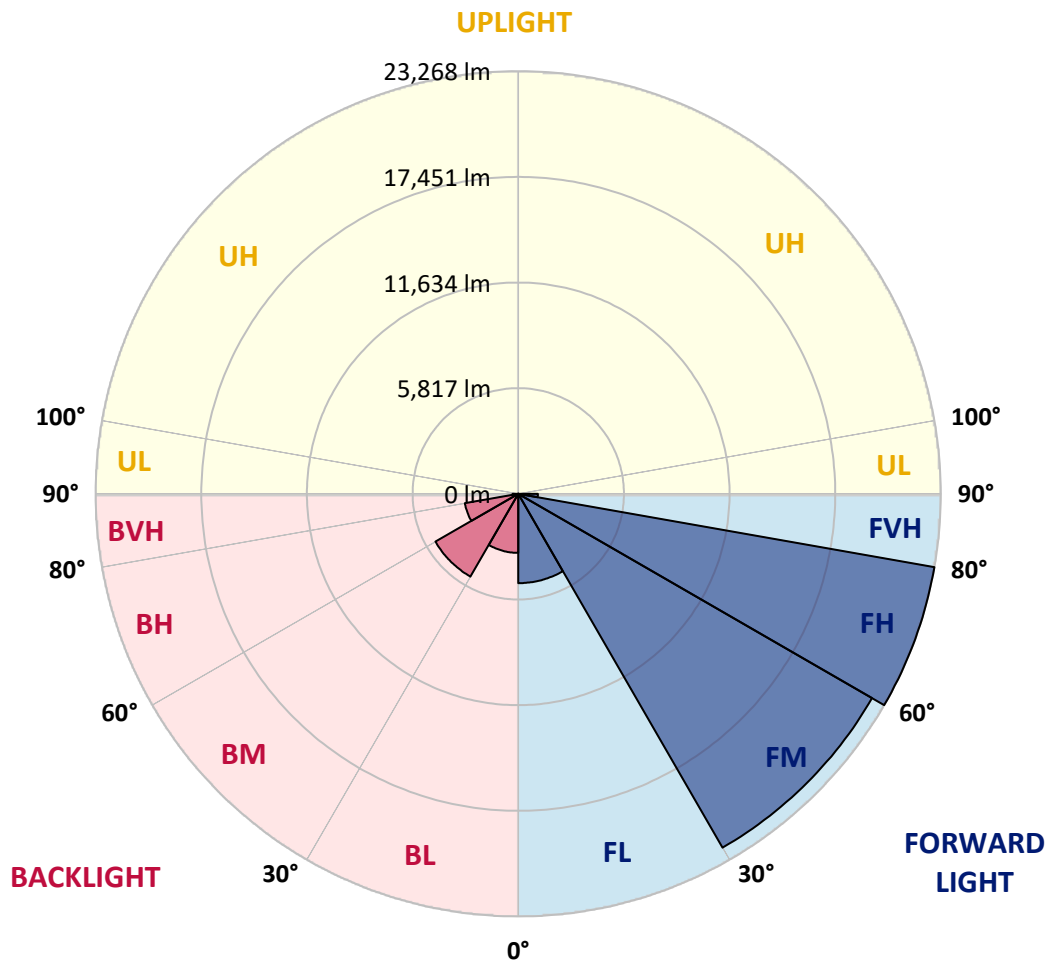


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4919.2	7.7			
FM (30°-60°)	22495.5	35.4			
FH (60°-80°)	23267.8	36.6			G5
FVH (80°-90°)	1079.3	1.7			G5
BL (0°-30°)	3251.4	5.1	B4/5000		
BM (30°-60°)	5264.8	8.3	B4/8500		
BH (60°-80°)	2984.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	316.7	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0
2.5°	10848.9	10823.1	10855.3	10900.4	10949.8	11016.4	11055.1	11072.2	11138.8	11164.6	11220.4
5°	10346.4	10333.5	10387.2	10464.5	10574.0	10728.6	10853.2	10876.8	11052.9	11177.5	11291.3
7.5°	9981.3	9981.3	10043.6	10135.9	10258.4	10466.7	10642.7	10675.0	10973.5	11241.9	11452.3
10°	9691.4	9702.2	9775.2	9884.7	10028.6	10249.8	10483.8	10520.3	10952.0	11392.2	11727.2
12.5°	9498.2	9523.9	9590.5	9689.3	9867.5	10135.9	10432.3	10481.7	10997.1	11607.0	12057.9
15°	9620.6	9663.5	9670.0	9710.8	9809.5	10101.6	10462.4	10513.9	11093.7	11826.0	12433.7
17.5°	10157.4	10172.5	10105.9	10020.0	9972.7	10159.6	10552.6	10606.2	11209.7	12042.9	12794.5
20°	10973.5	10964.9	10821.0	10589.1	10348.5	10378.6	10700.7	10756.6	11366.4	12234.0	13155.3
22.5°	12004.2	11974.2	11753.0	11325.6	10915.5	10743.7	10960.6	11007.8	11602.7	12506.7	13541.8
25°	13254.0	13187.5	12895.4	12322.1	11718.6	11276.2	11351.4	11396.5	11946.2	12811.7	13896.1
27.5°	14572.6	14506.0	14134.5	13440.9	12637.7	11948.4	11890.4	11929.1	12337.1	13037.2	14158.1
30°	15951.2	15880.4	15541.1	14763.7	13612.7	12644.2	12392.9	12407.9	12612.0	13159.6	14372.9
32.5°	17336.3	17269.8	16889.7	15987.7	14671.4	13391.5	12755.8	12736.5	12777.3	13286.3	14615.5
35°	18740.8	18766.5	18322.0	17323.5	15843.9	14222.5	13185.3	13144.5	13054.3	13546.1	14959.1
37.5°	20244.0	20226.8	19651.3	18607.6	17070.1	15124.5	13801.6	13795.2	13483.8	14037.9	15498.1
40°	21249.0	21259.7	20909.7	19921.9	18309.1	16123.0	14591.9	14576.9	14168.9	14774.4	16204.6
42.5°	21642.0	21712.8	21803.0	21176.0	19606.2	17280.5	15534.6	15513.2	15124.5	15831.0	17035.7
45°	21669.9	21811.6	22370.0	22290.5	20920.4	18605.5	16739.3	16679.2	16400.1	17235.4	18027.8
47.5°	21429.4	21575.4	22503.1	22954.1	22095.1	20003.5	18148.1	18100.8	17860.3	18992.0	19101.5
50°	20903.2	21042.8	22228.2	23278.3	23061.4	21347.8	19771.5	19647.0	19518.1	21021.4	20329.9
52.5°	19917.6	20186.0	21861.0	23355.6	23639.1	22541.7	21478.8	21397.2	21468.0	23162.4	21560.4
55°	17583.3	17883.9	20914.0	23291.2	24066.4	23544.6	23186.0	23181.7	23548.9	25408.6	22881.0
57.5°	16275.5	16488.1	18985.6	23181.7	24573.2	24541.0	24876.0	24916.8	25631.9	27854.5	24264.0
60°	15536.8	15760.1	18008.5	22775.8	25359.2	25829.5	26600.4	26682.0	27749.3	30562.5	25928.3
62.5°	14864.6	15109.4	17402.9	21949.1	26284.7	27672.0	28666.3	28739.3	29991.2	33345.6	27536.7
65°	13715.7	13992.8	16516.0	21405.8	27126.5	30075.0	31292.6	31342.0	32566.0	36261.8	28767.2
67.5°	12092.3	12345.7	14843.2	20205.3	27749.3	32993.4	34784.3	34812.3	35119.3	38321.2	29396.4
70°	10196.1	10292.7	12459.5	17727.2	27012.7	35722.8	38611.1	38617.5	37447.2	39639.7	29293.3
72.5°	7163.9	7391.5	9045.0	13419.4	23213.9	35389.9	40597.5	40670.5	38529.5	38974.0	26952.6
75°	4393.7	4634.2	5673.6	8132.4	14727.2	27833.1	37509.5	38016.3	36500.2	34750.0	22017.8
77.5°	2937.7	3027.9	3702.2	4741.6	6672.1	16013.5	28838.1	29791.5	30322.0	25342.0	14080.8
80°	1638.5	1810.3	2454.5	2946.3	2967.8	6362.9	17291.2	17514.6	16870.3	10090.9	4344.3
82.5°	867.6	962.1	1638.5	1730.8	1619.2	2130.3	6444.5	6450.9	5390.1	2705.8	1290.6
85°	672.2	751.6	1123.1	1056.5	826.8	944.9	2126.0	2241.9	1833.9	1108.1	420.9
87.5°	335.0	416.6	762.3	670.0	324.3	270.6	760.2	811.7	723.7	433.8	152.5
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°	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0	11214.0
2.5°	11241.9	11261.2	11284.8	11259.1	11250.5	11216.1	11158.1	11145.2	11115.2	11117.3	11134.5
5°	11340.7	11372.9	11360.0	11261.2	11143.1	10977.7	10806.0	10659.9	10563.3	10556.8	10550.4
7.5°	11529.6	11551.1	11450.2	11168.9	10838.2	10455.9	10095.1	9779.5	9588.4	9541.1	9530.4
10°	11826.0	11821.7	11544.7	10977.7	10318.5	9635.6	9055.8	8617.7	8362.2	8287.0	8267.7
12.5°	12156.7	12107.3	11576.9	10629.9	9584.1	8637.0	7902.6	7415.1	7148.9	7063.0	7041.5
15°	12498.1	12375.7	11497.4	10110.2	8682.1	7561.2	6790.2	6339.3	6195.4	6148.1	6139.6
17.5°	12816.0	12579.7	11269.8	9405.8	7653.5	6489.6	5888.3	5707.9	5742.3	5804.5	5806.7
20°	13127.3	12717.2	10904.7	8516.8	6569.0	5607.0	5403.0	5536.1	5699.3	5826.0	5843.2
22.5°	13434.4	12813.8	10434.4	7490.3	5598.4	5110.9	5254.8	5497.5	5684.3	5821.7	5845.4
25°	13692.1	12837.4	9785.9	6395.1	4924.1	4924.1	5183.9	5413.7	5598.4	5733.7	5757.3
27.5°	13786.6	12678.5	8871.1	5381.5	4584.8	4838.2	5085.2	5276.3	5433.0	5576.9	5602.7
30°	13823.1	12384.3	7814.6	4567.6	4445.2	4745.9	4952.0	5115.2	5263.4	5398.7	5422.3
32.5°	13829.6	12030.0	6693.6	4105.9	4348.6	4649.2	4786.7	4930.5	5089.4	5143.1	5151.7
35°	13870.4	11611.2	5512.5	3869.7	4258.4	4559.0	4668.5	4771.6	4513.9	4533.3	4550.4
37.5°	13988.5	11196.8	4524.7	3736.6	4200.4	4511.8	4642.8	4269.1	4067.3	4020.0	4013.6
40°	14209.7	10754.4	3792.4	3629.2	4178.9	4535.4	4477.4	3985.7	3637.8	3377.9	3339.3
42.5°	14516.7	10277.7	3324.2	3558.3	4194.0	4649.2	4247.6	3712.9	3135.3	2967.8	2946.3
45°	14862.5	9777.3	3070.8	3508.9	4245.5	4737.3	4200.4	3350.0	2901.2	2774.5	2763.8
47.5°	15197.5	9165.3	2939.9	3487.5	4316.4	4666.4	4000.7	3238.3	2789.5	2723.0	2729.4
50°	15581.9	8613.4	2860.4	3463.8	4378.6	4621.3	3775.2	3180.4	2746.6	2828.2	2914.1
52.5°	15906.1	8042.2	2789.5	3416.6	4402.3	4541.9	3717.2	3191.1	2746.6	2903.3	2985.0
55°	16290.5	7610.6	2707.9	3317.8	4357.2	4316.4	3676.4	3255.5	2778.8	2680.0	2688.6
57.5°	16786.6	7468.8	2617.7	3163.2	4206.8	3987.8	3657.1	3317.8	2759.5	2697.2	2718.7
60°	17473.8	7619.1	2581.2	2961.3	3972.8	3730.1	3659.2	3285.6	2624.2	2516.8	2519.0
62.5°	18128.7	7786.6	2579.1	2834.6	3685.0	3500.3	3609.9	3180.4	2555.5	2493.2	2516.8
65°	18343.5	7617.0	2476.0	2692.9	3360.8	3225.5	3519.7	3068.7	2503.9	2409.4	2405.1
67.5°	18055.7	7090.9	2267.7	2463.1	2989.2	2905.5	3401.6	2935.6	2422.3	2345.0	2332.1
70°	17201.0	5916.2	2010.0	2160.3	2566.2	2544.7	3214.7	2780.9	2312.8	2246.2	2190.4
72.5°	14901.1	4215.4	1694.3	1797.4	2089.5	2158.2	2957.0	2579.1	2158.2	2014.3	1928.4
75°	12238.3	3120.2	1391.5	1413.0	1587.0	1773.8	2602.7	2342.9	1975.7	1730.8	1664.3
77.5°	7494.6	1909.1	1108.1	1116.7	1138.1	1415.2	2143.2	2078.7	1743.7	1443.1	1395.8
80°	2426.6	1041.5	801.0	841.8	777.4	1037.2	1657.8	1769.5	1496.8	1206.9	1155.3
82.5°	923.4	607.7	541.2	569.1	539.0	695.8	1209.0	1417.3	1226.2	992.1	807.4
85°	446.7	343.6	320.0	358.6	332.9	356.5	773.1	1043.7	929.8	646.4	601.3
87.5°	158.9	152.5	122.4	165.4	141.7	126.7	236.2	526.1	614.2	444.5	397.3
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)