

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: P191246

Luminaire Tested: **GAN-AF-08-LED-U-SL4-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL4-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37464.5 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

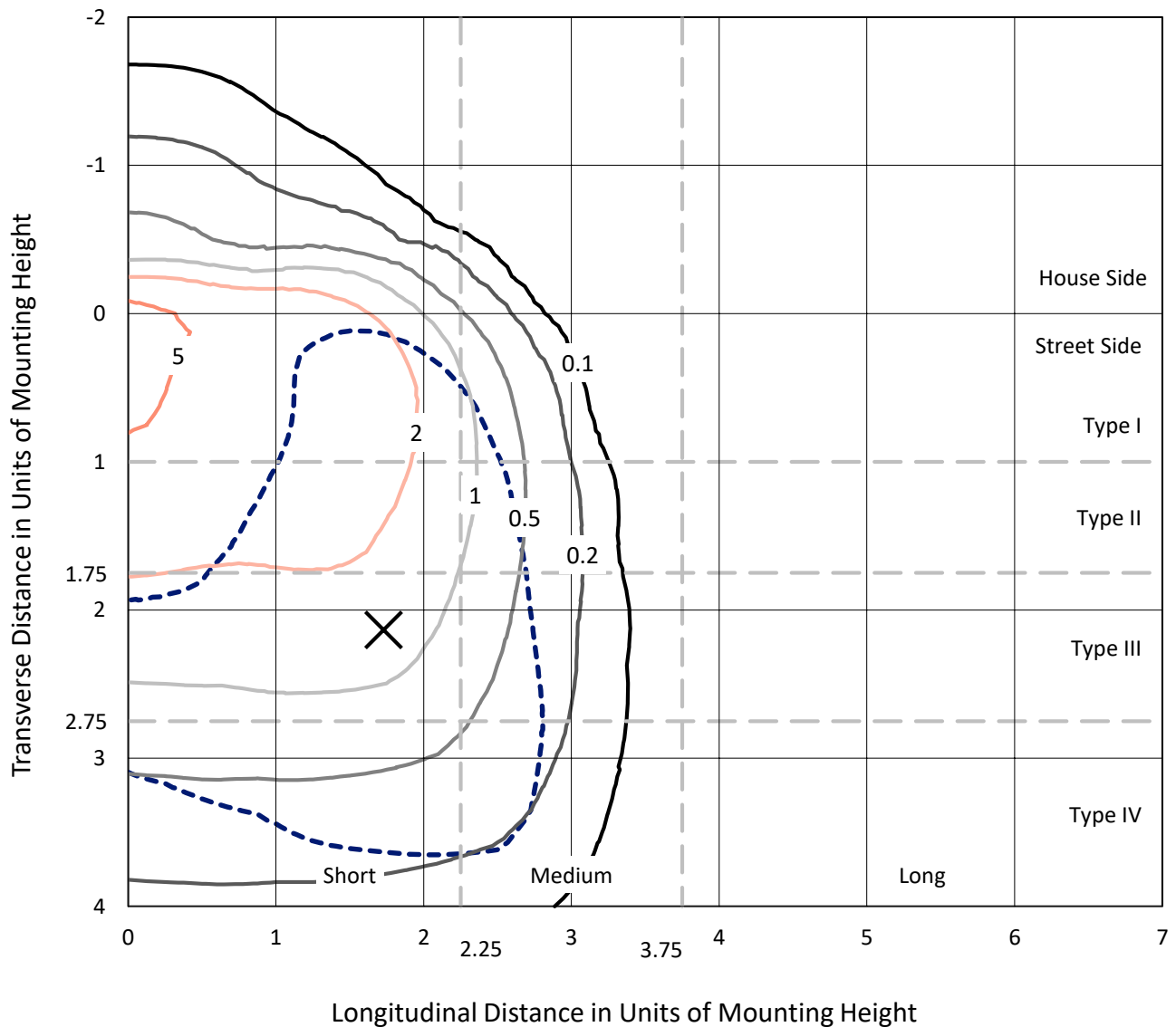
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAN-AF-08-LED-U-SL4-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

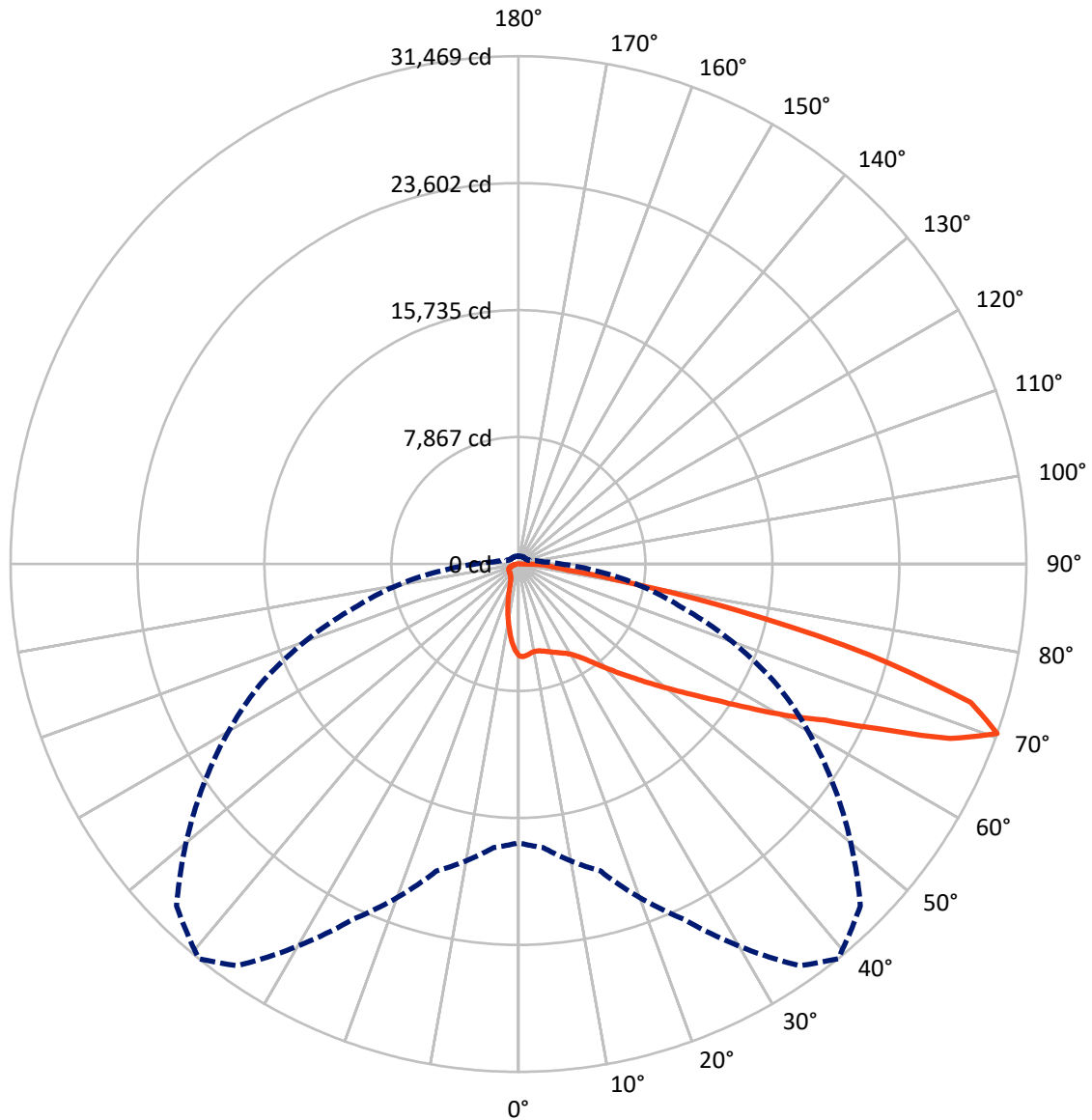
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191246
CATALOG NUMBER: GAN-AF-08-LED-U-SL4-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4261.0	0.0	4261.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	33203.6	0.0	33203.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	37464.5	0.0	37464.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	1.3
10°-20°	1220.1	3.3
20°-30°	1899.7	5.1
30°-40°	2959.4	7.9
40°-50°	4968.4	13.3
50°-60°	7892.7	21.1
60°-70°	10527.9	28.1
70°-80°	6357.6	17.0
80°-90°	1150.6	3.1
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°	37464.5	100.0
0°-180°	37464.5	100.0



REPORT NUMBER: P191246

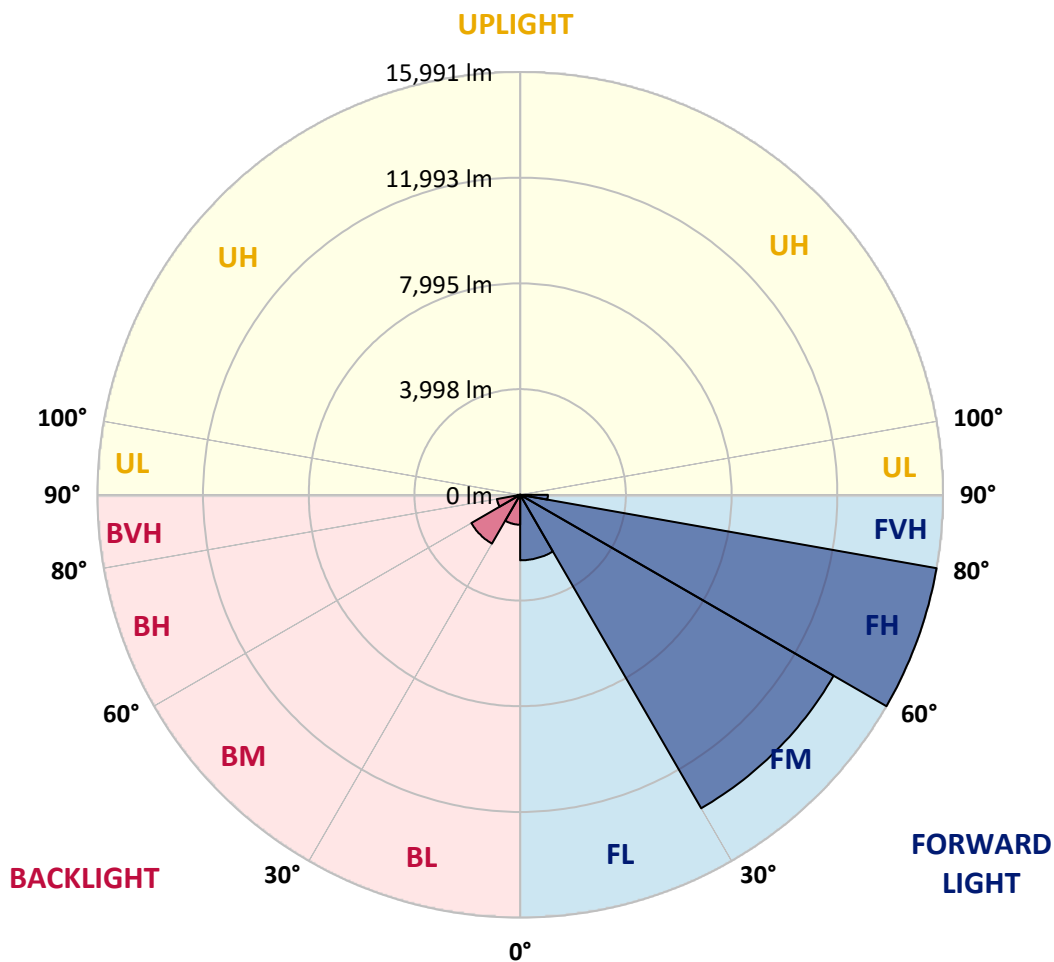
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2477.6	6.6			
FM	(30°-60°)	13688.1	36.5			
FH	(60°-80°)	15991.0	42.7			G5
FVH	(80°-90°)	1046.9	2.8			G5
BL	(0°-30°)	1130.4	3.0	B3/2500		
BM	(30°-60°)	2132.4	5.7	B2/2500		
BH	(60°-80°)	894.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	103.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P191246

CATALOG NUMBER: GAN-AF-08-LED-U-SL4-800-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7
2.5°	5798.2	5796.2	5781.0	5769.6	5760.0	5756.2	5763.9	5735.3	5710.5	5680.0	5647.7
5°	5754.4	5752.5	5727.7	5704.8	5682.0	5674.4	5672.5	5621.0	5590.5	5544.8	5483.9
7.5°	5706.7	5697.2	5664.8	5626.7	5586.7	5567.7	5548.7	5482.0	5447.7	5402.0	5331.5
10°	5657.2	5645.8	5615.3	5577.2	5539.2	5510.5	5478.2	5413.5	5377.2	5343.0	5261.0
12.5°	5605.8	5596.3	5588.7	5571.5	5544.8	5520.0	5495.3	5440.1	5402.0	5362.0	5266.8
15°	5598.2	5594.4	5611.5	5623.0	5607.7	5592.5	5565.8	5518.2	5478.2	5438.2	5314.3
17.5°	5659.2	5657.2	5701.0	5731.5	5723.9	5697.2	5661.0	5607.7	5575.3	5541.0	5386.8
20°	5792.5	5802.0	5855.4	5895.4	5857.2	5819.2	5760.0	5685.8	5668.7	5653.4	5461.0
22.5°	6043.9	6053.4	6091.5	6106.7	6007.7	5952.4	5870.5	5775.3	5763.9	5775.3	5550.5
25°	6436.3	6426.8	6421.1	6363.9	6182.9	6097.2	5992.4	5893.4	5899.2	5950.6	5676.3
27.5°	6956.3	6904.8	6824.8	6653.5	6365.8	6270.6	6142.9	6051.5	6087.7	6186.7	5864.9
30°	7495.4	7438.2	7253.4	6973.5	6605.8	6501.1	6358.2	6255.3	6350.6	6506.8	6116.3
32.5°	7994.4	7986.8	7716.3	7356.2	6937.2	6845.8	6703.0	6586.8	6741.0	6979.2	6493.4
35°	8539.2	8556.3	8232.5	7800.1	7384.9	7289.6	7186.7	7099.2	7304.9	7632.4	7040.0
37.5°	9122.1	9156.3	8773.4	8285.8	7895.3	7855.3	7794.4	7756.3	8074.4	8527.7	7803.9
40°	9901.1	9866.8	9335.3	8834.4	8522.0	8520.2	8501.0	8546.8	9076.3	9697.3	8784.9
42.5°	10735.4	10634.4	9931.5	9423.0	9209.6	9274.4	9312.5	9499.2	10282.1	11118.2	9981.1
45°	11634.4	11407.7	10550.6	10045.9	9973.5	10110.6	10240.1	10645.8	11701.1	12735.4	11291.6
47.5°	12352.5	12133.5	11190.7	10699.2	10857.3	11065.0	11314.4	11956.4	13289.7	14405.9	12585.0
50°	12918.2	12775.4	11836.4	11461.1	11830.6	12150.6	12558.3	13440.1	14943.1	16032.6	13783.0
52.5°	13466.8	13360.1	12487.8	12242.1	12973.5	13415.4	13969.7	15032.6	16638.3	17632.6	14790.6
55°	13962.1	13885.9	13188.8	13215.4	14318.3	14893.6	15590.7	16846.0	18485.9	19059.3	15644.0
57.5°	14520.2	14423.1	13988.8	14436.4	16045.9	16792.7	17699.3	18884.1	20219.3	20327.9	16293.6
60°	15082.1	14998.3	14876.4	15845.9	18240.2	19025.0	19884.1	20859.3	21977.5	21312.7	16255.5
62.5°	15569.7	15579.2	15794.5	17325.9	20388.8	21297.4	22345.0	23308.9	23568.0	21484.1	15053.5
65°	16396.5	16546.9	17188.8	19421.2	23413.7	24628.9	25914.6	25760.4	24007.9	19882.2	12476.3
67.5°	17379.3	17644.1	18945.0	22213.7	27236.6	28850.0	29347.1	26314.7	22246.0	16162.1	8893.4
70°	17280.2	17644.1	19703.2	24295.6	30387.1	31469.0	29960.4	23815.6	17665.0	10558.3	4723.9
72.5°	15345.0	15864.9	18158.4	23341.3	29394.7	29299.5	26009.9	17754.5	10495.4	4240.0	1845.7
75°	11695.4	12221.1	14194.5	18440.2	23232.7	22432.7	18455.5	9807.7	3983.0	1683.9	1163.8
77.5°	6727.7	7135.4	8659.2	11308.7	14739.3	13918.3	10272.6	4362.0	1939.1	1173.3	908.6
80°	3756.3	3983.0	4908.6	5737.2	7223.0	6621.0	4596.2	2710.5	1447.7	851.4	700.9
82.5°	2969.5	3171.5	3969.6	3619.1	3299.1	3043.9	2640.0	2413.3	1156.2	537.2	419.1
85°	2594.3	2786.7	3360.1	2849.5	2253.4	2066.7	2144.8	2375.3	899.1	323.8	358.1
87.5°	2403.8	2661.0	2994.3	2196.2	1754.4	1554.3	1979.1	2603.8	289.5	201.9	144.7
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°	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7	5687.7
2.5°	5619.2	5588.7	5539.2	5495.3	5426.8	5390.5	5350.5	5322.0	5299.1	5280.1	5310.5
5°	5445.8	5388.6	5283.8	5171.5	5038.1	4933.4	4845.8	4763.9	4706.7	4668.6	4695.3
7.5°	5282.0	5188.6	5024.8	4821.1	4592.4	4398.2	4238.2	4097.2	4000.0	3937.2	3962.0
10°	5188.6	5072.4	4819.1	4499.1	4162.0	3859.1	3607.6	3390.6	3240.1	3154.4	3167.7
12.5°	5165.8	5015.3	4664.9	4224.8	3763.8	3342.9	2988.7	2687.7	2476.3	2365.8	2369.6
15°	5182.9	4990.6	4520.1	3962.0	3379.1	2847.7	2405.8	2040.1	1794.4	1668.6	1666.7
17.5°	5211.5	4971.5	4367.7	3678.1	2988.7	2371.5	1878.1	1520.0	1302.8	1202.0	1194.3
20°	5242.0	4941.1	4196.2	3371.4	2582.8	1929.6	1470.5	1190.5	1053.3	998.1	994.3
22.5°	5285.8	4914.4	4019.1	3047.7	2184.8	1571.5	1209.5	1021.0	948.6	920.0	916.2
25°	5356.3	4901.1	3830.5	2710.5	1826.7	1314.3	1053.3	937.1	895.3	876.2	874.3
27.5°	5474.3	4920.1	3653.4	2382.9	1535.2	1141.0	965.8	895.3	864.8	847.6	845.8
30°	5626.7	4979.1	3466.7	2072.4	1308.6	1022.8	912.4	866.6	841.9	824.8	824.8
32.5°	5880.1	5078.1	3270.5	1803.9	1146.7	941.0	872.4	841.9	820.9	807.6	805.7
35°	6253.4	5264.8	3087.7	1581.0	1030.5	881.9	838.1	815.3	800.0	792.4	792.4
37.5°	6796.3	5560.0	2925.7	1421.0	960.0	841.9	805.7	788.6	779.1	779.1	779.1
40°	7525.8	5967.7	2794.3	1314.3	920.0	813.3	780.9	767.6	761.9	763.8	763.8
42.5°	8426.8	6497.3	2706.7	1240.0	901.0	796.2	763.8	752.4	746.7	744.8	746.7
45°	9453.5	7099.2	2697.2	1184.8	881.9	784.8	752.4	740.9	729.6	721.9	721.9
47.5°	10451.6	7710.6	2775.3	1165.8	860.9	771.4	742.9	731.4	714.3	697.1	697.1
50°	11333.5	8230.6	2880.0	1173.3	853.3	752.4	727.6	721.9	695.2	676.2	674.3
52.5°	12034.5	8630.6	2965.7	1196.2	860.9	739.1	708.6	710.4	681.9	660.9	659.1
55°	12596.4	8893.4	2942.9	1219.1	878.1	731.4	691.4	695.2	672.4	651.4	651.4
57.5°	12842.1	8796.4	2689.5	1200.0	891.4	733.4	678.1	693.4	674.3	655.2	655.2
60°	12314.5	7933.5	2215.3	1116.2	874.3	727.6	672.4	700.9	699.1	680.1	678.1
62.5°	10718.3	6388.6	1718.1	992.4	815.3	699.1	657.1	699.1	720.1	714.3	712.4
65°	8261.0	4550.5	1312.4	859.1	735.3	651.4	617.1	655.2	683.8	691.4	689.6
67.5°	5362.0	2788.6	1011.5	733.4	645.7	596.2	565.7	582.9	588.6	588.6	584.8
70°	2636.2	1501.0	805.7	617.1	554.3	537.2	520.0	510.5	500.9	493.4	493.4
72.5°	1301.0	981.0	662.9	521.9	478.1	470.5	466.7	455.2	447.6	438.1	434.2
75°	961.9	798.1	563.9	440.0	411.4	403.9	411.4	401.9	400.0	392.4	388.6
77.5°	790.5	680.1	485.7	377.2	352.4	339.0	350.5	352.4	354.2	342.9	339.0
80°	641.9	575.2	405.7	312.4	289.5	280.0	287.7	302.9	306.7	289.5	281.9
82.5°	462.9	470.5	327.7	243.8	224.7	217.2	232.4	251.4	255.2	230.5	224.7
85°	388.6	392.4	251.4	173.3	154.3	142.9	167.7	186.7	200.0	175.2	169.5
87.5°	161.9	230.5	144.7	97.2	85.7	74.3	89.5	99.0	120.0	110.5	108.5
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)