

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: P322522

Luminaire Tested: **GAN-SA8B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29619 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

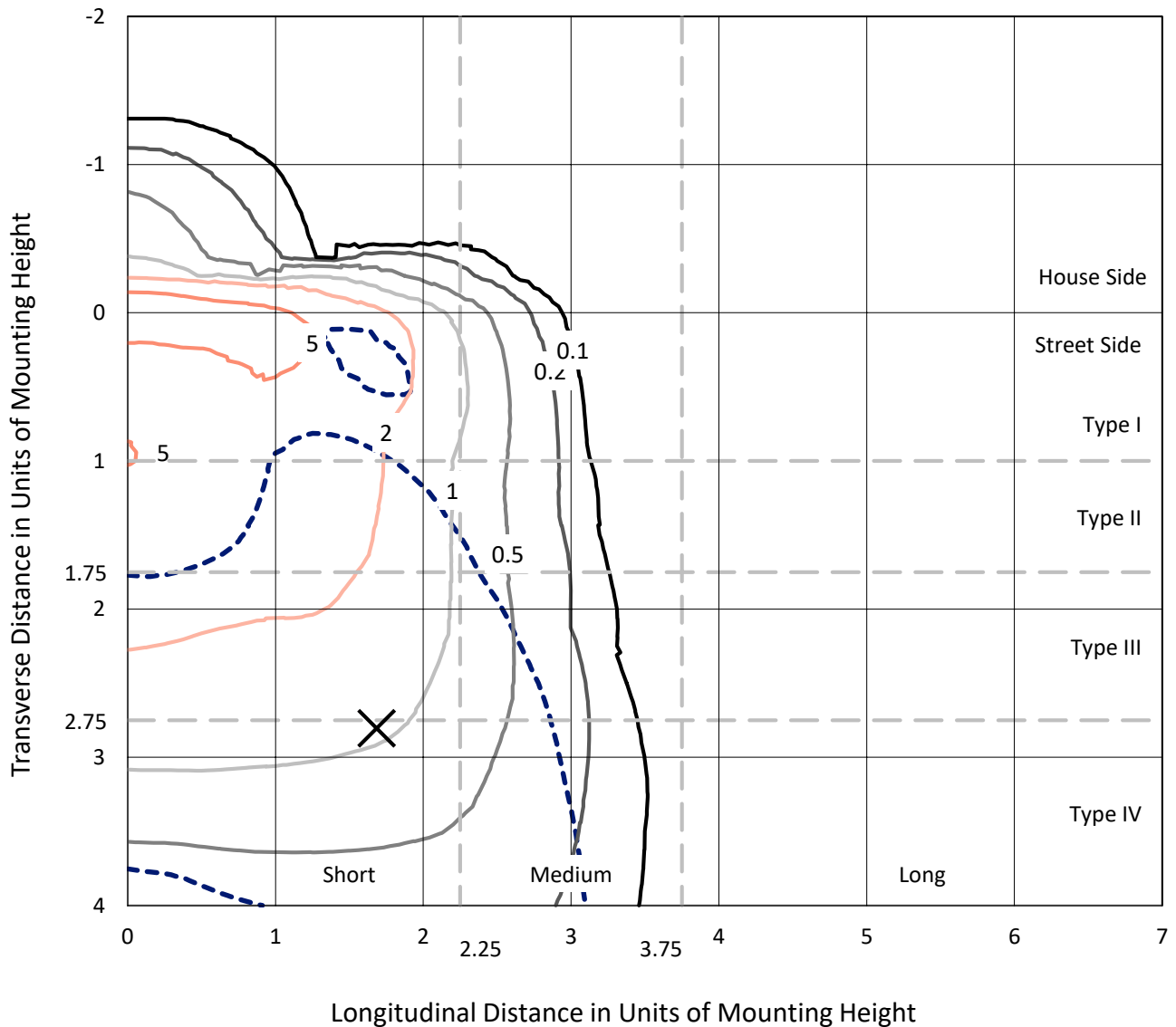
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322522
 CATALOG NUMBER: GAN-SA8B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

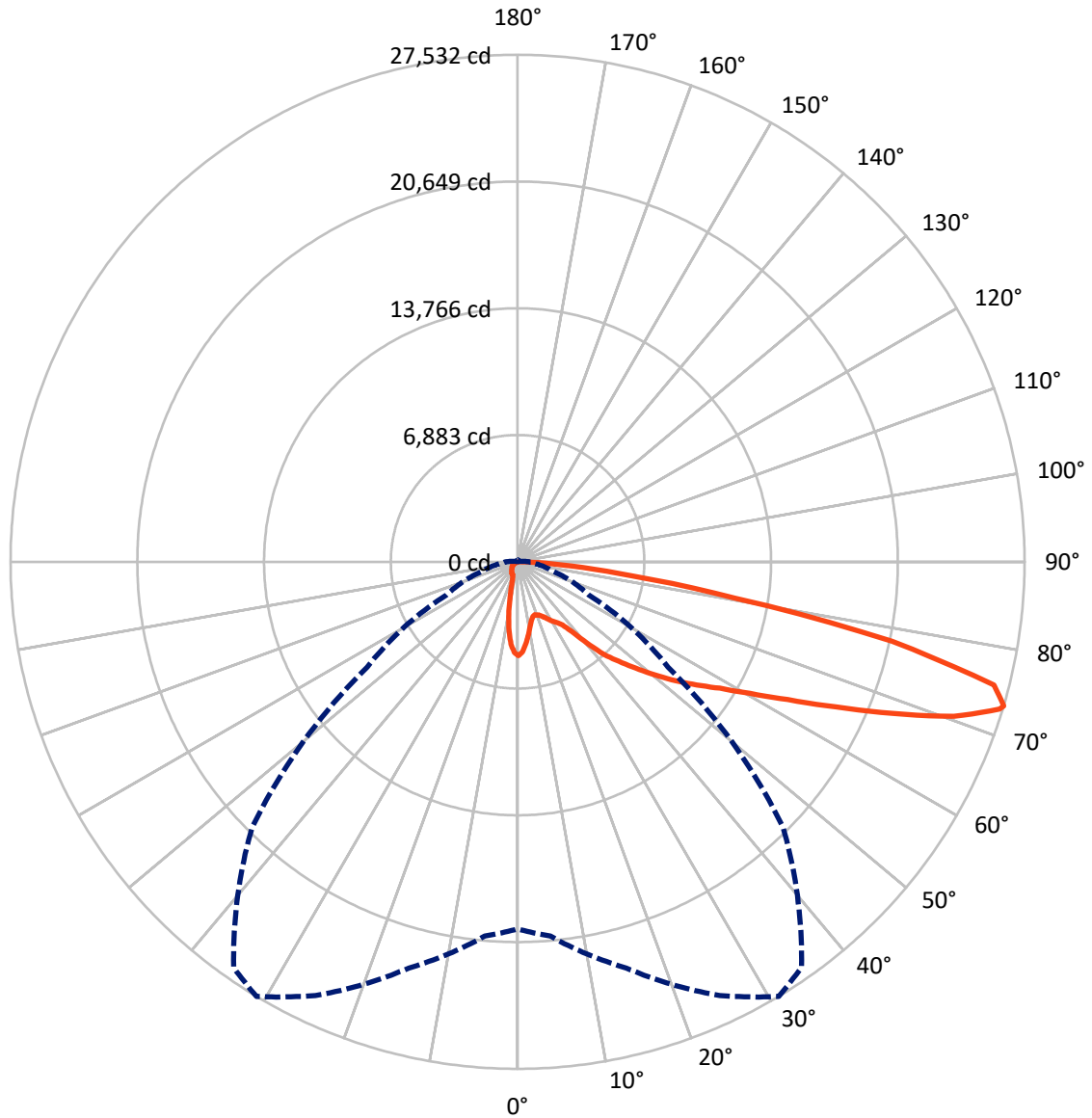
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322522
CATALOG NUMBER: GAN-SA8B-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2699.9	0.0	2699.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26919.1	0.0	26919.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	29619.0	0.0	29619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	1.4
10°-20°	917.4	3.1
20°-30°	1374.6	4.6
30°-40°	2187.0	7.4
40°-50°	3905.3	13.2
50°-60°	6059.9	20.5
60°-70°	8055.9	27.2
70°-80°	6059.6	20.5
80°-90°	636.7	2.1
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°	29619.0	100.0
0°-180°	29619.0	100.0

Coefficient of Utilization



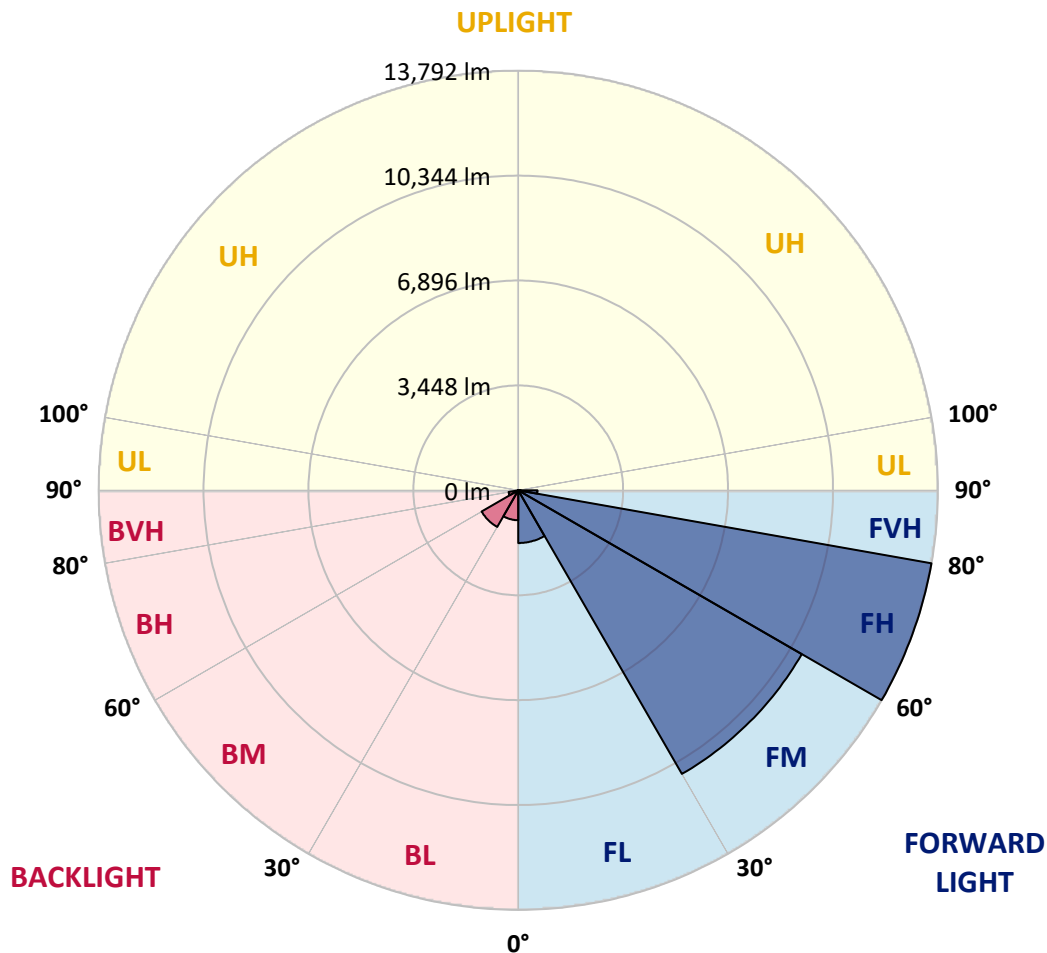
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.7	5.9			
FM (30°-60°)	10762.5	36.3			
FH (60°-80°)	13792.5	46.6			G5
FVH (80°-90°)	631.4	2.1			G4/750
BL (0°-30°)	981.8	3.3	B2/1000		
BM (30°-60°)	1389.7	4.7	B2/2500		
BH (60°-80°)	323.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P322522

CATALOG NUMBER: GAN-SA8B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	4829.3	4849.6	4871.4	4875.7	4911.9	4913.4	4965.6	5004.7	5043.8	5081.5	5094.6
5°	4333.6	4367.0	4406.1	4445.2	4522.1	4552.5	4680.0	4810.5	4935.1	5054.0	5112.0
7.5°	3804.6	3842.3	3897.4	3994.5	4080.0	4139.4	4340.9	4572.8	4804.7	5023.5	5149.6
10°	3322.0	3356.8	3414.7	3517.6	3649.5	3730.7	4001.7	4323.5	4664.1	4996.0	5206.2
12.5°	3014.7	3033.5	3065.4	3175.6	3294.4	3385.7	3704.6	4103.2	4548.1	4994.6	5297.5
15°	2958.2	2964.0	2937.9	2987.2	3079.9	3168.3	3491.5	3924.9	4459.7	5017.7	5416.3
17.5°	3048.0	3045.1	2958.2	2952.4	3026.3	3098.8	3387.2	3801.7	4397.4	5071.4	5570.0
20°	3184.3	3174.1	3023.4	2995.9	3074.1	3142.2	3379.9	3755.3	4374.2	5161.2	5756.9
22.5°	3365.5	3348.1	3111.8	3082.8	3166.9	3237.9	3469.8	3800.3	4394.5	5281.5	5974.3
25°	3590.1	3564.0	3264.0	3232.1	3317.6	3388.6	3630.7	3929.3	4455.4	5427.9	6249.7
27.5°	3843.7	3806.1	3507.5	3424.9	3522.0	3595.9	3845.2	4126.4	4551.0	5583.0	6587.4
30°	4082.9	4033.6	3764.0	3627.8	3746.6	3829.3	4077.1	4361.2	4704.7	5822.1	7049.8
32.5°	4323.5	4268.4	3993.0	3830.7	3938.0	4027.8	4316.2	4684.4	4993.1	6187.4	7664.3
35°	4877.2	4819.2	4481.5	4213.3	4211.9	4262.6	4651.1	5126.4	5374.3	6696.1	8397.7
37.5°	5809.1	5775.8	5454.0	4945.3	4809.0	4752.5	5107.6	5654.0	5922.2	7396.2	9225.3
40°	6829.5	6800.5	6439.6	5978.7	5771.4	5632.3	5762.7	6388.9	6696.1	8251.3	10070.3
42.5°	7981.7	7844.0	7200.5	7062.8	6877.3	6771.5	6654.1	7294.7	7646.9	9181.8	10908.0
45°	9028.2	8796.3	7961.4	7752.7	7710.7	7736.8	7802.0	8512.2	8716.6	10287.7	11742.9
47.5°	9651.4	9468.8	8828.2	8628.1	8616.5	8789.0	9281.8	9887.7	9781.8	11251.5	12477.7
50°	10244.2	10079.0	9547.0	9596.3	9650.0	9884.8	10961.6	11302.2	10754.4	12125.5	13151.6
52.5°	10723.9	10471.7	10193.5	10470.3	10734.1	11112.4	12695.1	12571.9	11444.3	12821.2	13728.5
55°	11000.8	10886.3	11021.1	11299.3	11795.0	12409.6	14331.4	13628.5	11948.7	13456.0	14112.6
57.5°	12015.3	11790.7	12058.8	12299.4	12945.8	13805.3	15733.0	14415.5	12312.5	13848.8	14201.0
60°	13243.0	13061.8	13219.8	13619.8	14492.3	15502.5	17043.2	15057.6	12502.3	14101.0	13972.0
62.5°	15196.7	14957.6	14859.0	15306.9	16463.5	17566.4	18037.5	15502.5	12460.3	13989.4	13186.4
65°	17814.3	17566.4	17125.8	17531.7	19002.8	19781.1	19149.2	15596.7	12170.4	13086.4	11200.8
67.5°	20495.6	20315.9	19939.1	20623.2	21950.8	22201.6	20324.6	15367.7	11237.0	10610.9	7913.6
70°	22266.8	22190.0	22434.9	23948.1	25132.2	25059.7	21403.0	14137.2	8758.6	6525.1	3914.8
72.5°	20989.9	21358.0	23166.8	25910.5	27357.0	26765.6	20849.3	10855.8	5006.1	2510.3	1132.0
73°	19931.8	20402.9	22837.8	25984.4	27532.4	26884.5	20384.0	9964.5	4267.0	1981.3	858.0
75°	13866.2	14444.5	18907.1	24200.2	26712.0	25614.8	16991.0	6099.0	1977.0	878.3	346.4
77.5°	6732.4	7159.9	10410.9	17485.3	20773.9	20013.0	10577.6	2272.6	892.8	549.3	159.4
80°	2513.2	2794.4	4519.2	8899.2	12005.2	12319.7	4652.5	859.5	594.2	442.1	81.2
82.5°	658.0	733.4	1666.8	3968.4	6152.6	6439.6	1466.8	433.4	434.8	363.8	49.3
85°	210.2	240.6	520.3	1781.3	2898.8	2545.1	382.6	210.2	316.0	271.0	27.5
87.5°	26.1	33.3	165.2	418.9	639.2	355.1	59.4	62.3	134.8	150.7	15.9
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°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	5107.6	5100.4	5101.8	5064.1	5039.5	4990.2	4939.5	4916.3	4891.6	4881.5	4891.6
5°	5133.7	5120.6	5083.0	4967.0	4843.8	4684.4	4535.1	4422.0	4280.0	4240.9	4281.5
7.5°	5174.3	5148.2	5038.0	4801.8	4527.9	4223.5	3881.4	3632.1	3427.8	3295.9	3343.7
10°	5233.7	5184.4	4962.7	4561.2	4071.3	3532.1	3046.6	2668.3	2400.2	2290.0	2285.7
12.5°	5333.7	5240.9	4869.9	4248.1	3513.3	2794.4	2158.1	1747.9	1530.5	1390.0	1387.1
15°	5443.9	5307.6	4752.5	3872.7	2864.0	2001.6	1390.0	1078.3	937.7	892.8	887.0
17.5°	5578.7	5384.4	4600.3	3410.4	2184.2	1326.2	907.3	817.4	811.7	807.3	807.3
20°	5748.2	5475.7	4404.7	2881.4	1549.4	885.6	771.1	776.9	779.8	774.0	775.4
22.5°	5945.3	5568.5	4171.3	2313.2	1047.9	740.6	737.7	745.0	747.9	745.0	746.4
25°	6174.3	5675.8	3887.2	1717.5	756.6	702.9	710.2	720.3	727.6	727.6	727.6
27.5°	6458.4	5806.2	3545.2	1198.6	653.7	663.8	684.1	702.9	713.1	716.0	716.0
30°	6828.0	5968.5	3135.0	821.8	594.2	611.6	649.3	685.6	704.4	707.3	708.7
32.5°	7294.7	6151.2	2659.6	607.3	543.5	556.6	597.1	658.0	694.3	700.0	700.0
35°	7829.5	6362.8	2148.0	529.0	507.3	511.6	543.5	613.1	676.9	692.8	694.3
37.5°	8415.1	6571.5	1633.4	494.2	476.8	476.8	500.0	559.5	634.8	684.1	689.9
40°	8961.5	6697.6	1145.0	466.7	449.3	449.3	469.6	513.1	584.1	658.0	674.0
42.5°	9465.9	6741.1	797.2	440.6	423.2	427.6	445.0	479.7	533.4	607.3	621.8
45°	9984.8	6733.8	581.2	410.2	397.1	410.2	423.2	449.3	488.4	530.5	533.4
47.5°	10376.1	6672.9	460.9	381.2	372.5	389.9	401.5	418.9	440.6	437.7	437.7
50°	10742.8	6525.1	371.0	342.1	347.9	368.1	373.9	379.7	381.2	353.6	350.7
52.5°	11021.1	6294.6	297.1	300.0	323.2	343.5	337.7	329.0	314.5	281.2	275.4
55°	11113.8	5851.1	233.3	247.8	287.0	313.1	291.3	272.5	244.9	217.4	211.6
57.5°	10945.7	5278.6	189.9	192.8	242.0	263.8	239.1	217.4	187.0	163.8	159.4
60°	10589.1	4642.4	156.5	144.9	187.0	205.8	189.9	168.1	140.6	123.2	121.7
62.5°	9881.9	3964.0	129.0	113.1	142.0	158.0	147.8	131.9	108.7	97.1	95.7
65°	8394.8	3171.2	104.4	91.3	110.2	123.2	114.5	102.9	85.5	76.8	75.4
67.5°	5859.8	2143.6	85.5	75.4	87.0	97.1	89.9	84.1	68.1	66.7	68.1
70°	2826.3	1033.4	71.0	60.9	68.1	75.4	72.5	68.1	65.2	75.4	87.0
72.5°	810.2	346.4	56.5	50.7	55.1	59.4	62.3	60.9	71.0	91.3	105.8
73°	623.2	279.7	53.6	47.8	52.2	58.0	60.9	59.4	72.5	92.8	105.8
75°	266.7	134.8	40.6	39.1	43.5	50.7	53.6	53.6	72.5	94.2	101.5
77.5°	120.3	72.5	26.1	30.4	37.7	40.6	44.9	44.9	58.0	72.5	72.5
80°	68.1	39.1	20.3	23.2	27.5	27.5	27.5	24.6	26.1	29.0	31.9
82.5°	43.5	26.1	15.9	18.8	17.4	14.5	11.6	11.6	10.1	11.6	14.5
85°	24.6	14.5	14.5	11.6	7.2	5.8	7.2	5.8	1.4	0.0	1.4
87.5°	14.5	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)