

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: P192955

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33048.7 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

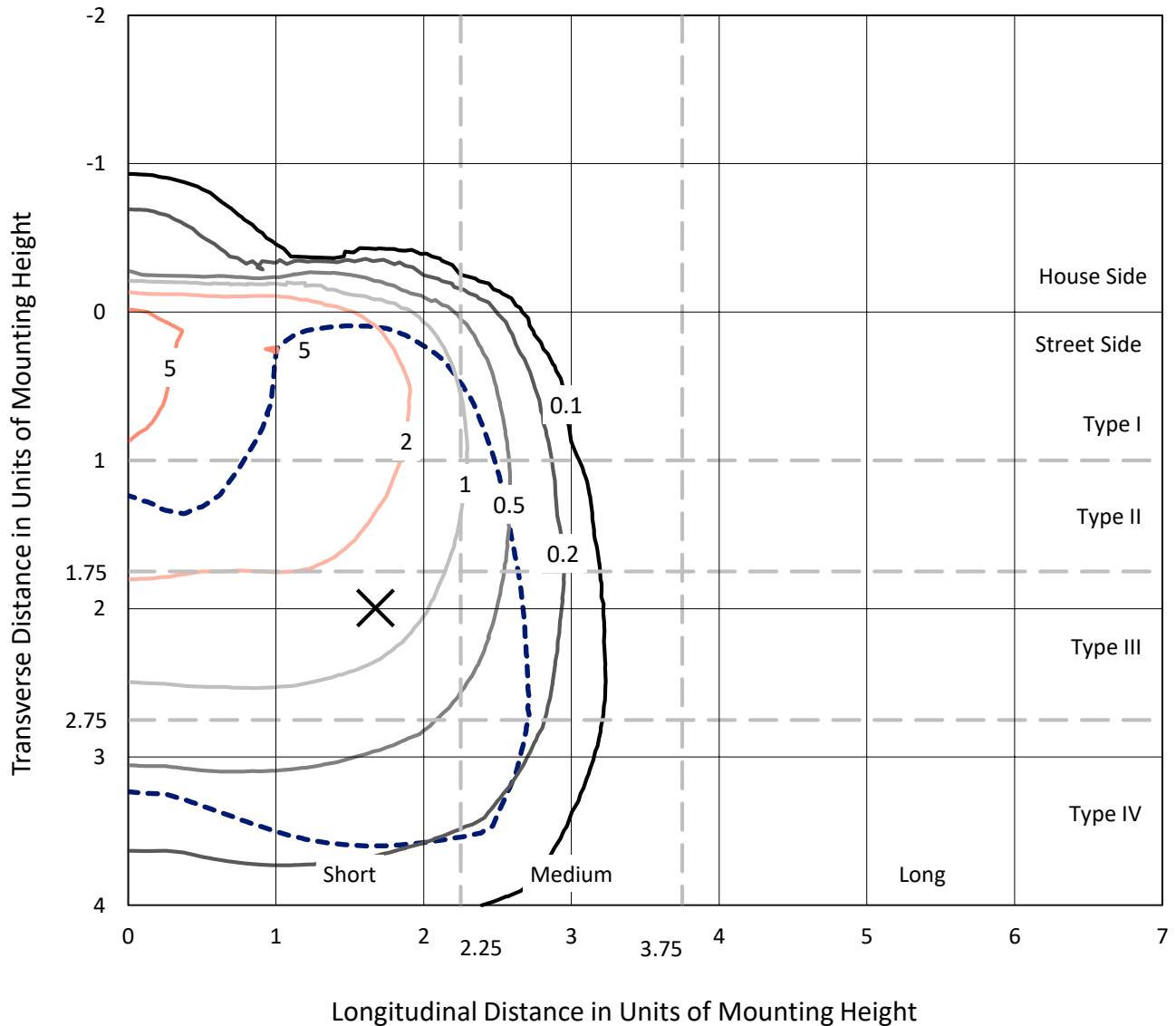
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

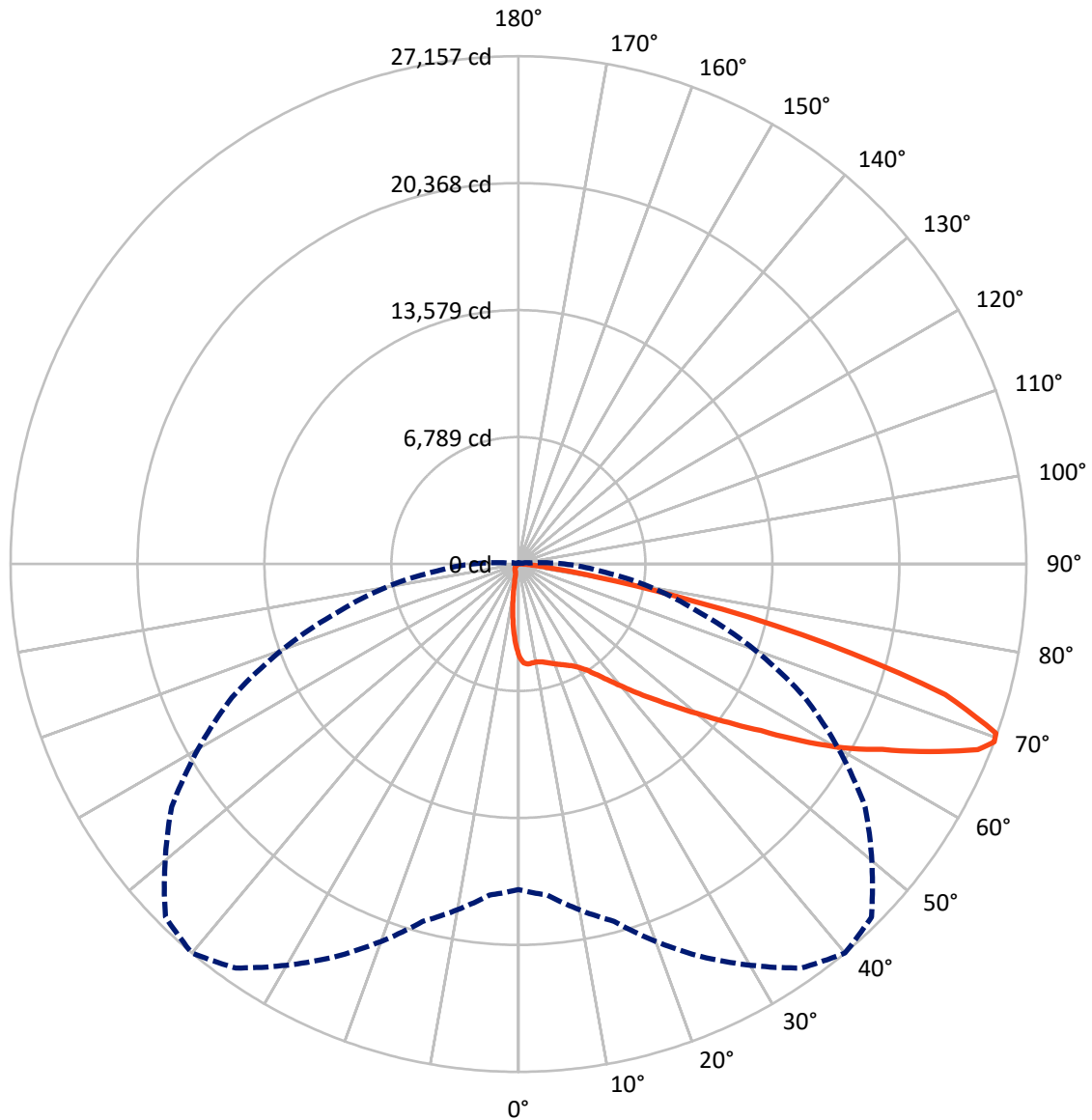
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192955
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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.5	0.0	1933.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	31115.2	0.0	31115.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	33048.7	0.0	33048.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	1.2
10°-20°	984.5	3.0
20°-30°	1658.3	5.0
30°-40°	2714.6	8.2
40°-50°	4700.3	14.2
50°-60°	7403.5	22.4
60°-70°	9668.7	29.3
70°-80°	4979.8	15.1
80°-90°	538.7	1.6
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°	33048.7	100.0
0°-180°	33048.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192955

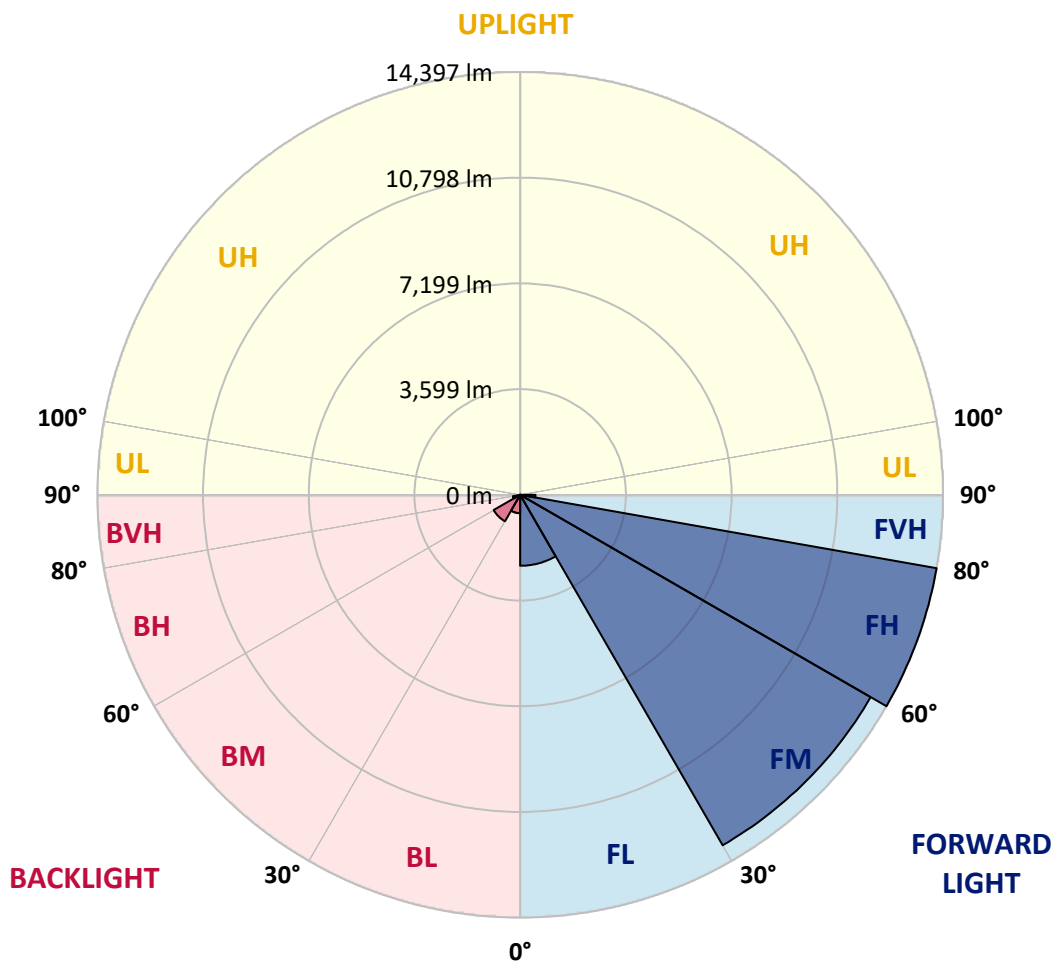
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2416.8	7.3			
FM	(30°-60°)	13779.2	41.7			
FH	(60°-80°)	14397.4	43.6			G5
FVH	(80°-90°)	521.8	1.6			G4/750
BL	(0°-30°)	626.3	1.9	B2/1000		
BM	(30°-60°)	1039.2	3.1	B2/2500		
BH	(60°-80°)	251.0	0.8	B1/500		G1/500
BVH	(80°-90°)	16.9	0.1			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7
2.5°	5421.6	5392.1	5374.4	5350.8	5321.3	5295.7	5285.9	5213.1	5144.3	5049.8	4941.6
5°	5521.9	5512.0	5480.6	5449.1	5413.7	5374.4	5352.7	5266.2	5167.9	5030.1	4841.3
7.5°	5531.8	5519.9	5480.6	5437.3	5388.1	5340.9	5303.6	5217.0	5126.6	4986.8	4756.7
10°	5516.0	5502.2	5472.7	5425.5	5364.5	5319.3	5281.9	5199.3	5122.6	4996.7	4741.0
12.5°	5498.3	5484.5	5470.7	5447.1	5394.0	5362.6	5331.1	5252.4	5183.6	5077.3	4798.0
15°	5516.0	5508.1	5523.8	5514.0	5484.5	5457.0	5425.5	5354.7	5291.8	5203.3	4902.3
17.5°	5590.8	5590.8	5640.0	5645.9	5618.3	5579.0	5533.8	5462.9	5409.8	5335.0	5026.2
20°	5765.8	5759.9	5822.9	5834.7	5767.8	5706.8	5640.0	5553.4	5512.0	5464.8	5148.2
22.5°	6066.8	6039.3	6076.7	6064.9	5933.0	5838.6	5756.0	5649.8	5628.2	5606.5	5283.9
25°	6458.4	6442.6	6468.1	6352.2	6119.9	5992.1	5893.7	5773.7	5773.7	5795.3	5437.3
27.5°	7026.8	6967.8	6881.2	6676.7	6328.4	6165.2	6059.0	5931.0	5964.6	6045.2	5640.0
30°	7609.2	7544.2	7345.5	7030.8	6582.3	6411.2	6287.1	6153.4	6232.0	6379.6	5911.4
32.5°	8183.5	8110.8	7829.4	7432.1	6946.1	6775.0	6655.0	6507.5	6639.2	6887.1	6308.7
35°	8740.2	8675.3	8350.6	7882.5	7430.0	7288.4	7178.4	7050.4	7219.7	7565.7	6869.4
37.5°	9365.8	9295.0	8899.6	8392.1	8018.3	7916.0	7835.3	7707.4	8002.5	8510.1	7650.5
40°	10135.0	10014.9	9481.8	8976.3	8698.9	8649.7	8594.7	8577.0	9035.3	9737.6	8691.0
42.5°	11016.3	10819.5	10091.7	9592.0	9446.4	9481.8	9468.1	9546.7	10327.7	11264.2	9957.9
45°	11897.6	11643.8	10770.3	10249.1	10268.7	10392.6	10469.4	10784.1	11946.7	13015.0	11321.2
47.5°	12645.1	12395.3	11421.5	10959.2	11195.2	11439.2	11647.7	12243.8	13611.0	14738.2	12381.5
50°	13284.4	13048.4	12112.1	11740.2	12271.4	12664.8	13003.2	13886.5	15401.1	16050.3	13125.1
52.5°	13807.7	13650.3	12828.0	12635.3	13500.8	14077.2	14573.0	15631.2	16986.7	17116.5	13703.4
55°	14317.3	14205.2	13597.2	13699.5	14944.8	15729.6	16357.2	17482.5	18352.0	18005.7	14258.3
57.5°	14903.4	14801.2	14474.5	15049.1	16843.1	17830.7	18515.2	19123.1	19553.9	18914.5	14781.4
60°	15501.4	15442.4	15450.4	16548.0	19022.7	19971.0	20348.7	20506.0	20734.2	19770.3	14810.9
62.5°	16071.9	16184.1	16565.7	18216.2	21110.0	21837.7	22028.7	22184.0	21916.6	19906.1	13683.7
65°	17037.9	17220.8	18131.6	20449.0	23405.6	24184.6	24381.4	23848.2	22103.3	18151.2	11130.4
67.5°	17510.0	17844.4	19469.4	22530.3	25632.5	26498.1	26425.3	23956.5	19835.2	13841.2	7142.9
69°	17411.7	17767.6	19778.1	23167.7	26372.1	27157.1	26694.8	22632.5	16898.1	10026.8	4384.9
70°	17022.1	17382.0	19618.8	23144.1	26466.6	27088.2	26195.1	20997.8	14287.8	7331.8	2742.3
72.5°	14214.9	14525.7	17417.6	20919.1	24381.4	23875.8	21914.5	14547.5	6961.9	1996.7	617.8
75°	8750.0	8923.2	12497.6	15759.2	18414.9	17116.5	14600.6	7237.4	2075.4	564.6	342.3
77.5°	4622.9	4701.5	6842.0	9289.1	11673.4	9658.9	7483.1	2822.9	956.0	354.1	247.9
80°	2732.5	2791.5	3684.6	4247.1	5051.7	4219.6	2992.1	1733.1	684.6	222.4	220.3
82.5°	1563.9	1601.3	2671.5	2360.6	1990.8	1699.6	1489.2	1642.6	411.2	149.4	228.3
85°	574.3	582.3	1503.0	1796.0	1184.3	704.2	739.6	1361.3	110.2	94.4	178.9
87.5°	267.5	261.6	773.1	1099.7	692.4	446.6	576.4	299.1	43.2	60.9	49.1
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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 CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7	4937.7
2.5°	4878.7	4805.9	4674.0	4538.3	4400.6	4294.3	4190.1	4107.5	4080.0	4028.8	4032.8
5°	4729.2	4595.3	4320.0	4040.6	3749.4	3509.5	3283.2	3100.3	3011.7	2921.3	2921.3
7.5°	4599.3	4404.6	3973.8	3519.3	3049.1	2653.7	2297.7	2030.1	1882.6	1764.5	1762.6
10°	4550.1	4286.5	3684.6	3033.4	2378.3	1839.3	1416.3	1144.9	1005.1	914.7	910.7
12.5°	4571.7	4245.2	3462.2	2584.8	1762.6	1182.3	820.3	645.2	586.1	558.7	558.7
15°	4634.7	4233.4	3240.0	2146.2	1245.2	739.6	544.8	497.6	493.8	493.8	493.8
17.5°	4711.5	4237.3	3011.7	1719.3	847.9	529.2	470.2	464.3	468.1	468.1	468.1
20°	4790.2	4239.3	2765.9	1323.9	597.9	460.3	442.6	440.7	444.5	444.5	446.6
22.5°	4886.5	4249.1	2519.9	989.5	493.8	434.8	420.9	420.9	423.0	423.0	420.9
25°	4996.7	4268.8	2264.3	733.7	450.4	417.1	405.3	403.2	405.3	403.2	401.3
27.5°	5134.4	4296.3	1979.0	574.3	430.8	399.4	389.5	389.5	387.6	385.5	383.6
30°	5307.5	4327.9	1658.3	487.9	411.2	383.6	373.7	371.8	369.9	365.9	365.9
32.5°	5571.1	4396.7	1341.6	442.6	389.5	361.9	354.1	354.1	350.1	346.3	344.2
35°	5976.4	4532.4	1058.4	415.0	365.9	338.3	328.6	328.6	324.6	322.7	320.6
37.5°	6537.0	4739.0	822.2	389.5	342.3	312.8	302.9	301.0	297.0	293.2	291.1
40°	7282.5	4994.7	647.3	365.9	318.7	287.3	279.3	275.5	267.5	261.6	261.6
42.5°	8218.9	5285.9	525.2	340.4	291.1	263.7	257.8	251.9	238.0	232.1	230.2
45°	9198.5	5547.5	444.5	310.9	263.7	240.1	236.1	226.2	208.5	202.5	202.5
47.5°	9904.8	5608.5	391.4	283.3	238.0	214.4	212.5	194.7	178.9	175.1	173.0
50°	10345.4	5488.4	348.2	255.7	214.4	190.7	184.8	163.3	153.4	149.4	147.5
52.5°	10642.5	5274.1	312.8	232.1	192.8	169.2	155.3	139.7	131.7	127.9	127.9
55°	10880.6	4971.1	277.4	210.6	175.1	151.5	131.7	119.9	112.1	108.1	108.1
57.5°	10947.4	4559.9	242.0	192.8	157.4	133.8	112.1	104.3	94.4	92.5	92.5
60°	10461.6	3818.3	214.4	171.1	141.6	116.1	98.4	88.5	78.6	76.7	74.8
62.5°	9180.8	2954.7	188.8	151.5	123.9	100.3	84.5	72.7	64.9	64.9	64.9
65°	7003.2	1981.0	165.2	131.7	108.1	84.5	72.7	59.0	55.0	55.0	57.1
67.5°	4192.1	1078.1	141.6	112.1	92.5	70.8	60.9	51.2	49.1	51.2	51.2
69°	2457.0	633.4	127.9	100.3	80.7	63.0	53.1	45.3	49.1	51.2	51.2
70°	1516.7	426.8	118.0	90.4	72.7	57.1	49.1	43.2	47.2	49.1	49.1
72.5°	423.0	220.3	94.4	70.8	59.0	47.2	39.4	39.4	45.3	47.2	47.2
75°	275.5	163.3	72.7	53.1	45.3	37.3	33.5	37.3	43.2	45.3	45.3
77.5°	228.3	133.8	59.0	43.2	37.3	35.4	31.4	33.5	39.4	41.3	41.3
80°	208.5	94.4	47.2	39.4	33.5	31.4	29.5	27.6	35.4	37.3	37.3
82.5°	198.7	74.8	41.3	35.4	31.4	27.6	25.5	27.6	31.4	33.5	35.4
85°	123.9	49.1	37.3	33.5	27.6	25.5	25.5	25.5	29.5	31.4	31.4
87.5°	45.3	39.4	33.5	27.6	23.6	23.6	23.6	23.6	25.5	29.5	29.5
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)