

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: P192797

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-7030-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42629.7 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

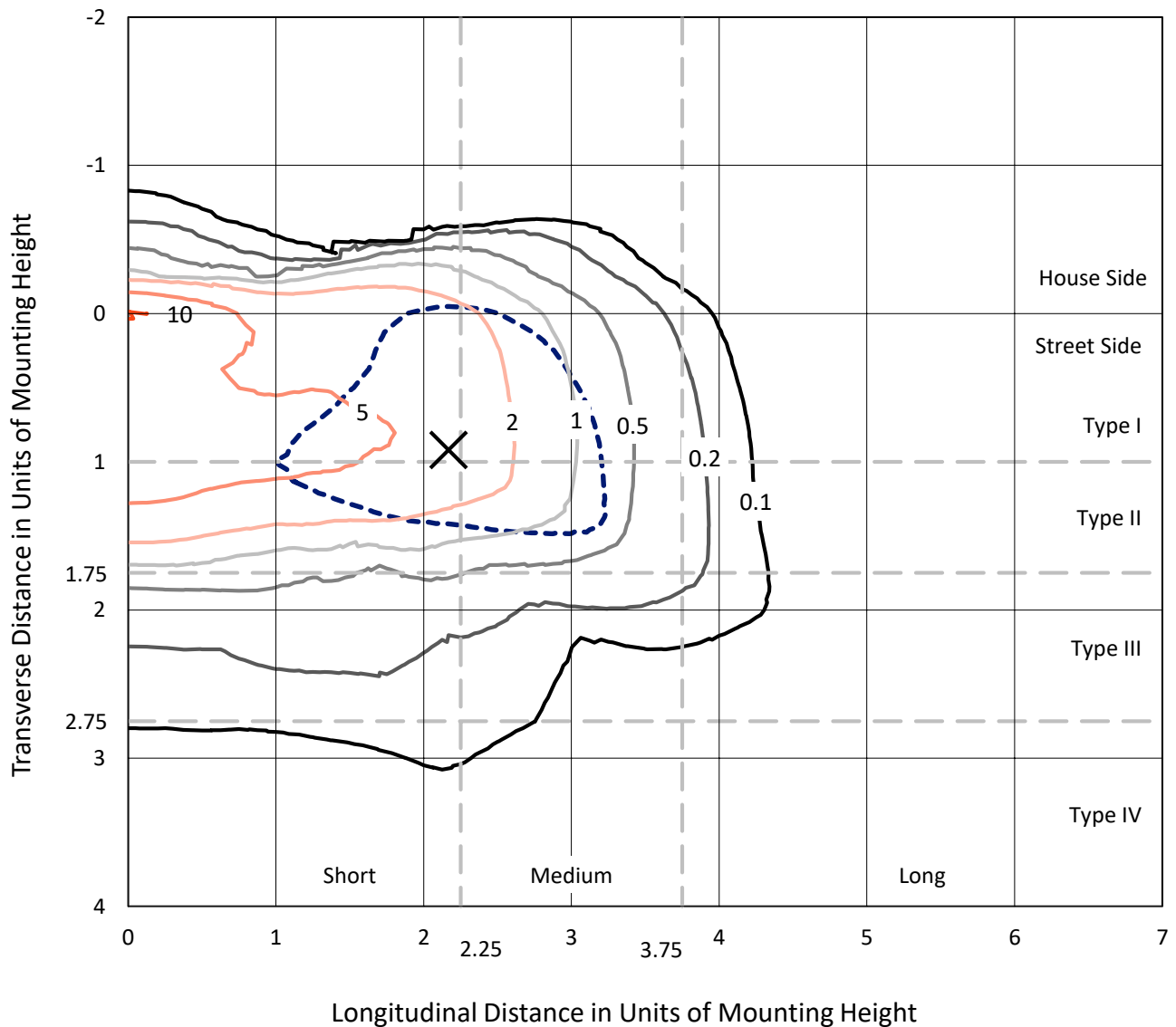


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

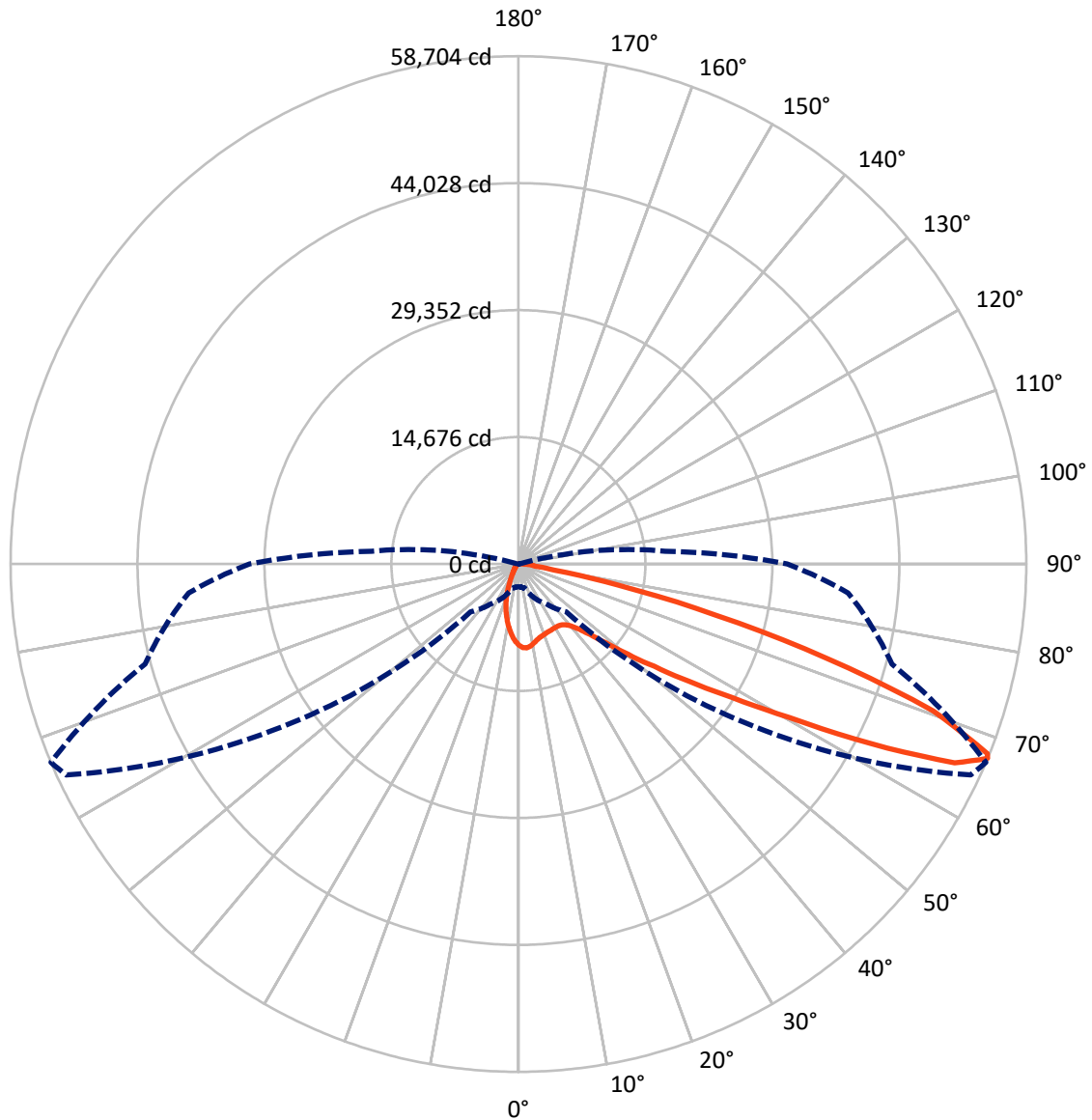


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4426.2	0.0	4426.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	38203.5	0.0	38203.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	42629.7	0.0	42629.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.0	1.8
10°-20°	1628.2	3.8
20°-30°	2367.2	5.6
30°-40°	3692.9	8.7
40°-50°	6541.9	15.3
50°-60°	10351.9	24.3
60°-70°	11856.6	27.8
70°-80°	4918.1	11.5
80°-90°	508.0	1.2
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°	42629.7	100.0
0°-180°	42629.7	100.0

Coefficient of Utilization



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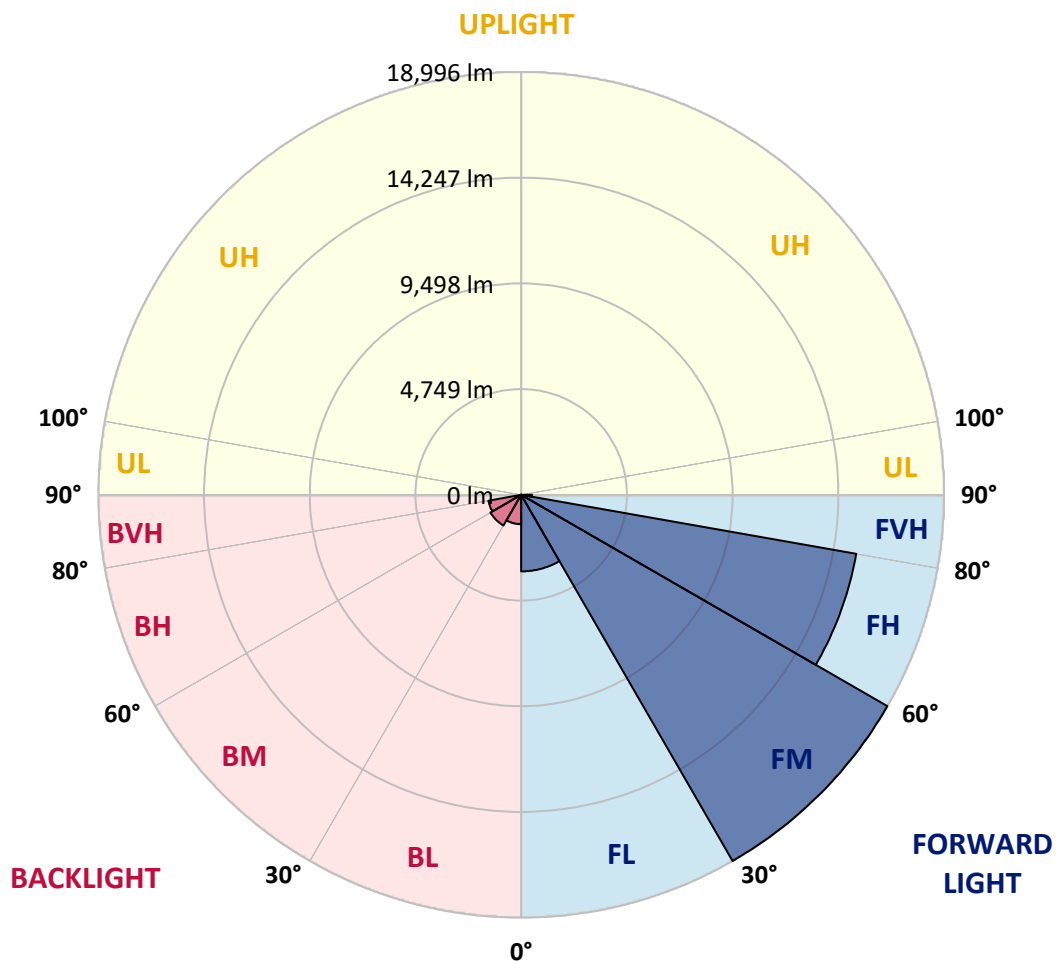
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3439.6	8.1			
FM (30°-60°)	18995.9	44.6			
FH (60°-80°)	15282.9	35.9			G5
FVH (80°-90°)	485.1	1.1			G3/500
BL (0°-30°)	1320.8	3.1	B3/2500		
BM (30°-60°)	1590.8	3.7	B2/2500		
BH (60°-80°)	1491.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	22.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4
2.5°	9719.7	9739.6	9737.0	9752.1	9786.8	9789.3	9754.4	9687.4	9672.4	9585.5	9433.8
5°	8963.8	9021.0	9055.9	9197.6	9356.6	9548.1	9692.4	9744.5	9737.0	9674.9	9446.2
7.5°	8101.0	8158.2	8197.9	8364.6	8575.9	8904.1	9279.6	9587.9	9615.3	9682.4	9436.2
10°	7526.7	7536.6	7591.3	7750.5	7971.7	8307.4	8755.0	9294.4	9376.5	9622.7	9411.4
12.5°	7054.3	7061.7	7133.7	7305.3	7541.5	7879.7	8349.6	8973.8	9100.5	9548.1	9406.3
15°	6718.5	6745.8	6810.4	6989.6	7240.6	7576.4	8058.8	8737.6	8889.3	9520.8	9451.2
17.5°	6606.6	6636.4	6656.3	6785.6	7014.3	7342.7	7837.3	8583.4	8755.0	9535.7	9538.3
20°	6723.5	6745.8	6701.1	6733.4	6875.1	7168.5	7650.9	8451.5	8655.5	9553.1	9650.1
22.5°	7158.5	7168.5	7046.6	6904.9	6880.2	7041.8	7504.3	8347.2	8565.9	9600.4	9781.9
25°	7904.6	7887.1	7688.2	7382.4	7093.9	7019.4	7417.2	8282.5	8521.2	9650.1	9918.5
27.5°	8804.6	8829.6	8556.0	8111.0	7561.4	7168.5	7404.7	8255.2	8501.4	9684.8	10037.9
30°	9898.7	9933.6	9620.3	9060.8	8272.6	7536.6	7519.1	8250.1	8488.9	9662.5	10047.9
32.5°	11015.2	11057.5	10811.3	10234.5	9222.3	8153.3	7777.7	8304.9	8513.7	9585.5	9990.6
35°	12183.8	12243.5	12079.3	11584.5	10510.4	9043.4	8232.8	8471.5	8630.6	9578.0	9933.6
37.5°	13797.6	13852.2	13543.9	13019.3	12069.5	10236.8	8963.8	8784.8	8906.6	9697.3	9948.5
40°	16207.0	16199.5	15403.8	14600.7	13782.6	11753.7	9990.6	9351.7	9413.9	10057.9	10132.4
42.5°	18832.7	18820.2	17644.2	16423.3	15684.8	13621.1	11340.9	10331.3	10289.1	10721.7	10609.8
45°	20856.7	20854.2	19894.4	18519.3	17974.8	15764.4	13086.4	11694.0	11629.3	11800.9	11490.0
47.5°	21719.5	21734.4	21252.0	20284.7	20513.5	18663.5	15286.9	13668.3	13571.3	13501.6	13029.1
50°	21048.1	21078.0	21117.7	20928.8	22376.0	22560.0	18238.4	16450.6	16403.4	16092.6	15354.1
52.5°	18855.1	19006.7	19474.2	20073.4	23022.4	26299.6	22865.8	19906.8	19653.2	19322.5	18509.4
55°	15160.2	15326.8	16214.4	17669.0	22060.1	28756.3	29350.6	24362.6	23939.9	22952.7	21779.2
57.5°	10032.9	10291.5	11579.7	13429.5	19265.3	29151.6	35820.4	30546.4	29074.6	26371.7	25048.9
60°	5527.4	5776.1	7173.5	8849.5	13914.3	27197.3	40171.8	38597.8	35996.9	30193.5	29019.8
62.5°	3404.0	3538.3	4570.2	6129.2	8344.6	21465.8	41071.8	48715.3	45704.1	35114.2	33816.3
65°	2710.2	2767.4	3272.2	5010.3	5982.5	12768.1	38165.2	56428.4	55423.8	41071.8	38110.4
67°	2630.8	2653.1	2891.8	4301.6	5639.3	7827.5	31973.7	57684.1	58703.6	44677.2	38244.7
67.5°	2648.1	2673.0	2899.2	4105.2	5629.4	7193.4	29840.4	57189.2	58477.3	44963.3	37650.4
70°	2553.6	2630.8	3319.6	4102.6	5353.3	5977.6	17870.5	49550.8	50891.0	41778.0	31946.5
72.5°	905.1	910.0	1434.7	3319.6	5820.9	6042.1	8973.8	36325.1	37317.3	31958.9	23032.4
75°	537.1	457.5	477.4	944.9	5562.3	5868.1	5176.9	23211.4	23581.9	18313.1	11664.1
77.5°	370.5	323.3	333.2	417.7	2118.5	5786.1	4112.6	12104.3	11708.9	6422.6	2484.0
80°	211.3	186.5	199.0	365.5	770.9	5398.2	3878.9	4908.4	4184.7	1089.1	686.2
82.5°	111.9	94.5	114.4	300.9	537.1	3364.2	3886.4	2372.1	1879.8	367.9	467.4
85°	39.8	32.3	54.7	206.4	358.1	1031.9	3603.0	1994.2	1566.4	179.0	355.5
87.5°	7.4	7.4	22.4	84.5	144.2	315.8	2130.9	1183.6	793.2	107.0	243.6
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°	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4	9401.4
2.5°	9371.6	9264.6	9120.4	8943.9	8735.1	8551.0	8414.3	8272.6	8242.7	8193.1	8185.4
5°	9309.4	9125.5	8767.4	8357.1	7919.4	7524.1	7203.4	6917.4	6790.6	6681.2	6668.7
7.5°	9217.4	8941.4	8332.2	7670.9	6987.0	6365.5	5838.3	5465.2	5122.2	4958.0	4933.2
10°	9110.5	8715.2	7842.4	6924.9	5980.0	5102.3	4319.0	3662.6	3264.7	3028.5	2998.7
12.5°	9011.0	8493.9	7342.7	6151.7	4895.9	3722.3	2715.2	2088.6	1670.9	1501.9	1482.0
15°	8963.8	8314.8	6875.1	5361.0	3762.1	2369.7	1484.4	1148.8	1012.0	972.2	969.7
17.5°	8958.8	8163.2	6417.7	4542.8	2635.7	1377.5	967.3	882.7	855.4	845.4	845.4
20°	8956.3	8019.0	5960.1	3694.9	1673.5	917.6	805.6	785.7	765.8	753.5	753.5
22.5°	8983.8	7889.6	5482.7	2829.6	1054.3	743.5	708.6	688.8	663.9	646.5	644.0
25°	9011.0	7790.1	4995.4	2014.0	763.4	646.5	611.7	584.3	549.5	527.1	524.7
27.5°	9016.0	7665.8	4473.2	1347.7	639.0	564.5	519.6	477.4	437.6	415.3	412.8
30°	8941.4	7457.0	3893.9	910.0	564.5	489.8	430.2	385.3	348.1	330.7	330.7
32.5°	8794.8	7198.4	3257.3	686.2	502.3	420.2	355.5	313.2	288.5	281.1	278.5
35°	8662.9	6919.9	2603.3	581.8	450.0	355.5	290.9	263.6	248.7	246.2	243.6
37.5°	8585.8	6696.2	1989.2	527.1	400.3	298.4	246.2	226.2	218.8	213.8	216.4
40°	8645.5	6509.6	1469.5	482.4	350.6	248.7	208.9	199.0	191.4	189.0	189.0
42.5°	8906.6	6477.3	1091.6	442.6	303.3	206.4	181.5	174.0	169.2	166.6	169.2
45°	9592.9	6676.2	847.9	405.4	256.1	174.0	154.2	151.7	149.1	149.1	149.1
47.5°	10624.8	7086.4	706.2	363.1	213.8	149.1	134.3	131.7	129.3	131.7	131.7
50°	12372.7	7837.3	631.5	320.7	176.6	126.8	114.4	114.4	114.4	114.4	116.9
52.5°	15030.8	9314.4	581.8	278.5	144.2	107.0	97.0	97.0	99.4	99.4	101.9
55°	17992.3	11273.7	537.1	236.2	121.9	89.5	79.5	82.1	84.5	87.1	87.1
57.5°	21204.8	13444.5	499.8	193.9	104.5	72.1	67.0	69.6	72.1	77.0	77.0
60°	25081.2	15794.2	445.1	151.7	87.1	57.2	52.2	57.2	64.7	69.6	72.1
62.5°	29338.1	18066.9	375.5	119.3	72.1	44.8	42.3	52.2	62.2	67.0	69.6
65°	32247.4	18780.5	288.5	97.0	54.7	32.3	34.9	47.2	59.6	67.0	67.0
67°	31068.8	17027.5	236.2	82.1	44.8	24.9	32.3	47.2	59.6	64.7	67.0
67.5°	30250.6	16341.3	226.2	79.5	42.3	24.9	32.3	47.2	59.6	67.0	67.0
70°	24613.8	12275.9	189.0	59.6	34.9	22.4	27.4	44.8	57.2	64.7	64.7
72.5°	17102.2	7568.8	169.2	42.3	29.8	19.8	24.9	42.3	54.7	62.2	64.7
75°	8130.8	2740.1	144.2	32.3	27.4	17.4	22.4	42.3	54.7	62.2	62.2
77.5°	1658.4	636.6	116.9	27.4	22.4	17.4	19.8	39.8	52.2	59.6	59.6
80°	544.5	246.2	87.1	24.9	22.4	17.4	19.8	37.2	52.2	57.2	59.6
82.5°	392.9	124.3	57.2	24.9	22.4	17.4	17.4	37.2	49.7	57.2	57.2
85°	300.9	87.1	37.2	24.9	22.4	17.4	17.4	34.9	47.2	54.7	54.7
87.5°	199.0	34.9	29.8	24.9	22.4	17.4	17.4	34.9	44.8	52.2	54.7
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)