

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: P268831

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268831
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-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 42007.4 lumens
Efficiency: N/A
Efficacy: 73.1 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): 575
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

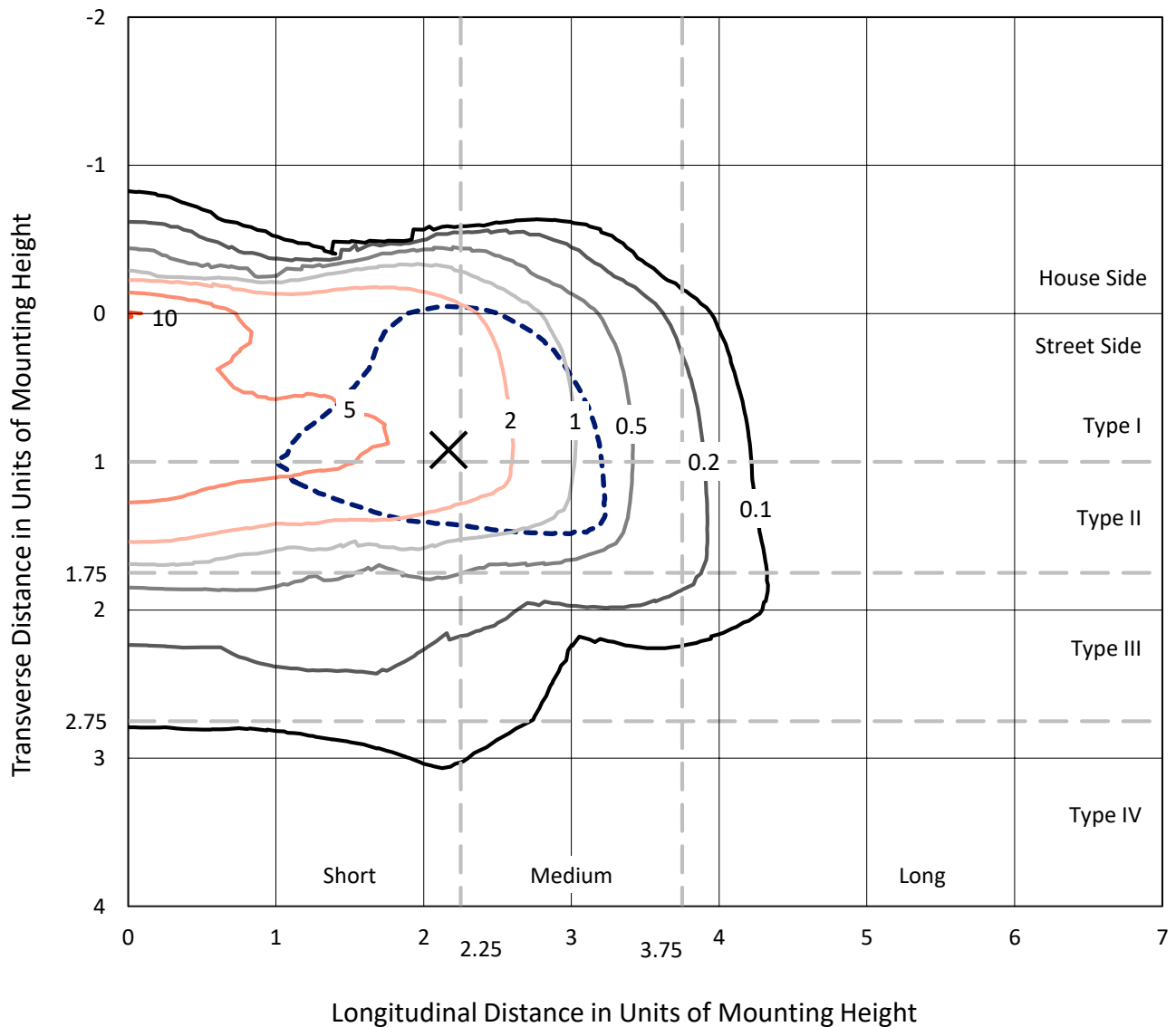


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

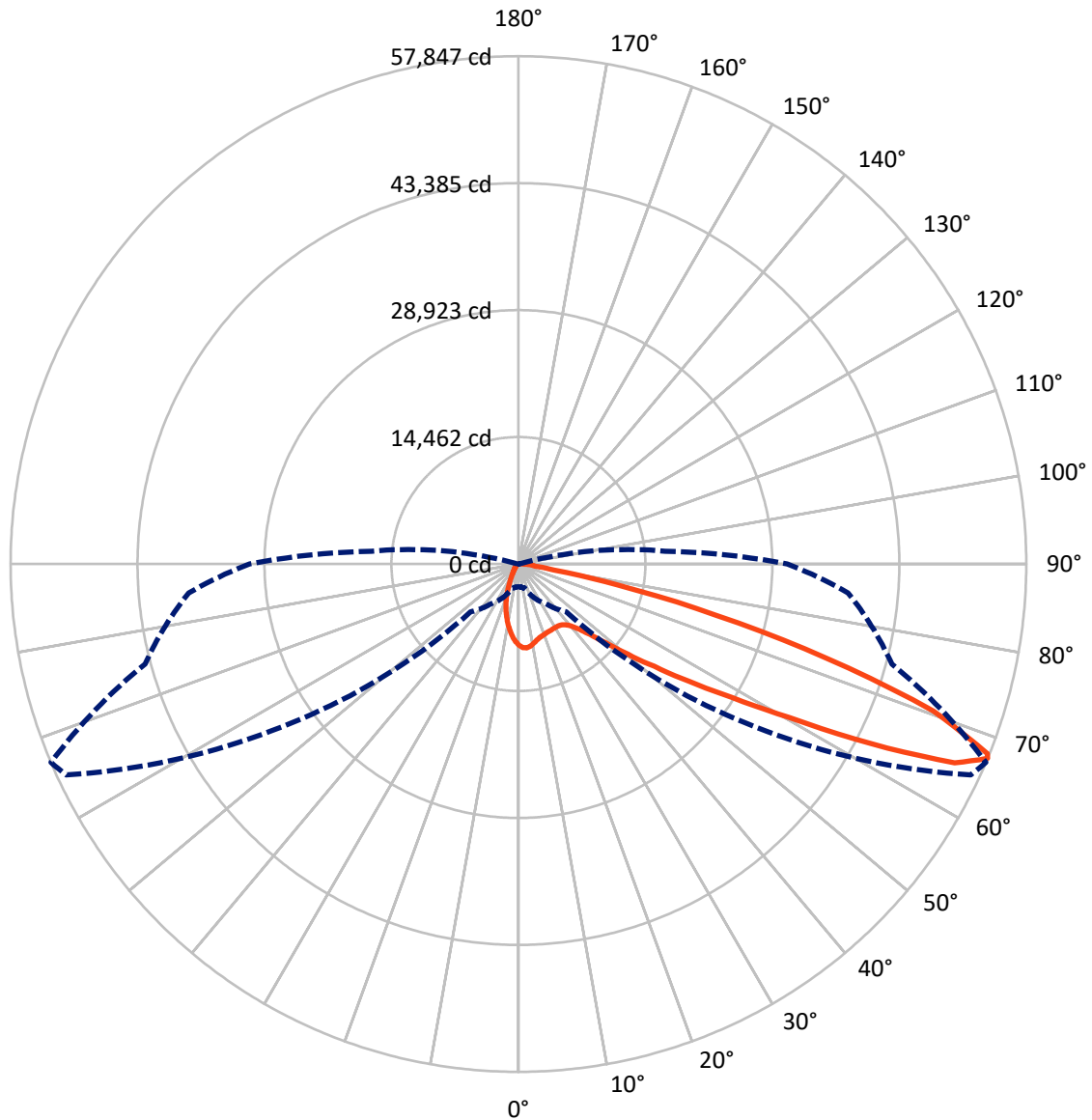


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

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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	4361.6	0.0	4361.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	37645.8	0.0	37645.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	42007.4	0.0	42007.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.8	1.8
10°-20°	1604.4	3.8
20°-30°	2332.7	5.6
30°-40°	3639.0	8.7
40°-50°	6446.4	15.3
50°-60°	10200.8	24.3
60°-70°	11683.5	27.8
70°-80°	4846.3	11.5
80°-90°	500.6	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°	42007.4	100.0
0°-180°	42007.4	100.0



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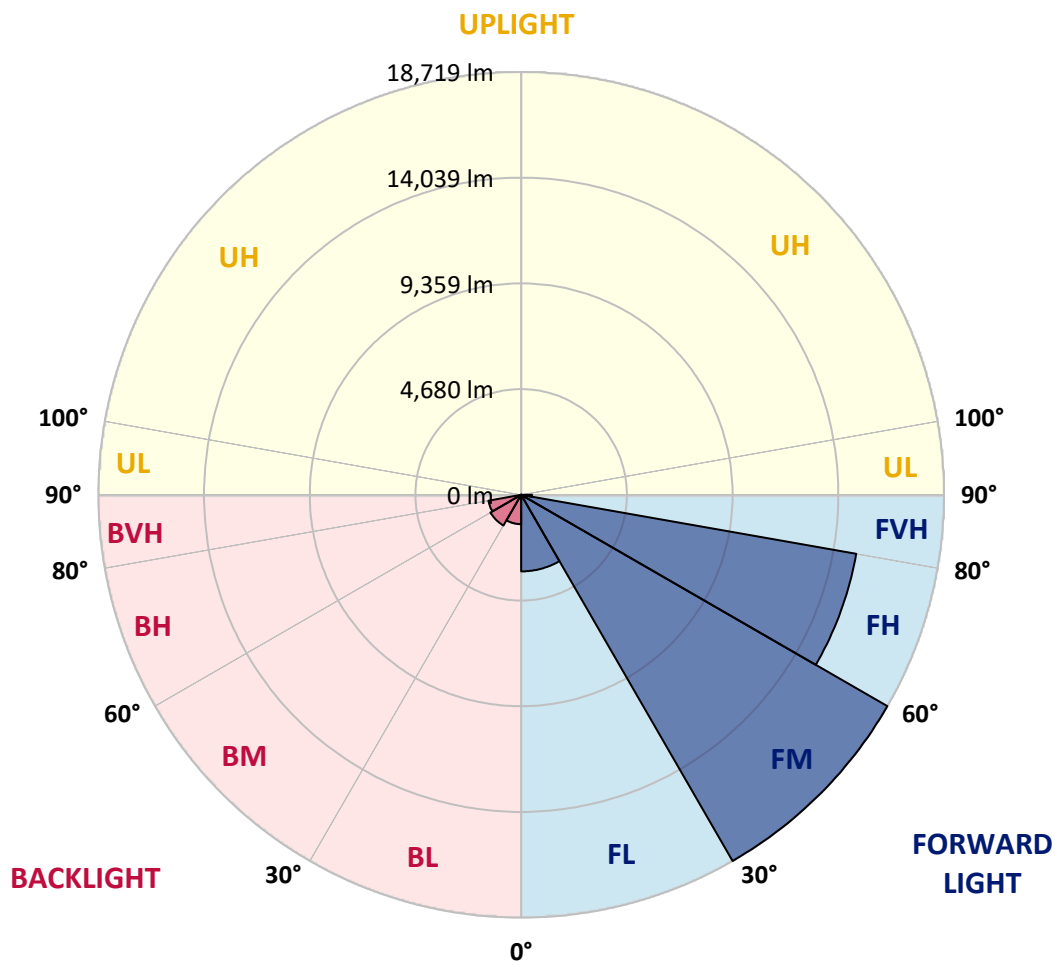
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3389.4	8.1			
FM (30°-60°)	18718.6	44.6			
FH (60°-80°)	15059.8	35.9			G5
FVH (80°-90°)	478.1	1.1			G3/500
BL (0°-30°)	1301.5	3.1	B3/2500		
BM (30°-60°)	1567.5	3.7	B2/2500		
BH (60°-80°)	1470.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	22.5	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°	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2
2.5°	9577.8	9597.4	9594.9	9609.7	9643.9	9646.4	9612.1	9546.0	9531.2	9445.5	9296.0
5°	8832.9	8889.3	8923.7	9063.3	9220.1	9408.8	9550.9	9602.3	9594.9	9533.7	9308.2
7.5°	7982.8	8039.1	8078.3	8242.5	8450.7	8774.1	9144.1	9448.0	9475.0	9541.1	9298.4
10°	7416.8	7426.6	7480.5	7637.3	7855.3	8186.2	8627.1	9158.8	9239.6	9482.2	9274.0
12.5°	6951.3	6958.5	7029.5	7198.7	7431.5	7764.7	8227.8	8842.7	8967.7	9408.8	9269.2
15°	6620.4	6647.4	6711.1	6887.5	7135.0	7465.8	7941.0	8610.0	8759.5	9381.8	9313.2
17.5°	6510.1	6539.7	6559.2	6686.5	6912.0	7235.4	7723.0	8458.1	8627.1	9396.5	9399.0
20°	6625.3	6647.4	6603.4	6635.2	6774.7	7063.9	7539.3	8328.1	8529.1	9413.7	9509.2
22.5°	7054.1	7063.9	6943.9	6804.2	6779.7	6939.0	7394.7	8225.3	8441.0	9460.2	9639.1
25°	7789.2	7772.0	7575.9	7274.7	6990.4	6916.9	7308.9	8161.6	8396.7	9509.2	9773.7
27.5°	8676.1	8700.7	8431.1	7992.5	7451.0	7063.9	7296.8	8134.6	8377.2	9543.6	9891.4
30°	9754.2	9788.6	9479.9	8928.6	8151.8	7426.6	7409.4	8129.8	8364.9	9521.5	9901.3
32.5°	10854.4	10896.0	10653.4	10085.0	9087.8	8034.3	7664.2	8183.6	8389.5	9445.5	9844.9
35°	12005.9	12064.7	11903.0	11415.4	10357.0	8911.4	8112.7	8347.8	8504.7	9438.1	9788.6
37.5°	13596.1	13650.0	13346.2	12829.2	11893.2	10087.4	8832.9	8656.5	8776.6	9555.8	9803.3
40°	15970.3	15963.1	15178.9	14387.6	13581.5	11582.0	9844.9	9215.3	9276.4	9911.0	9984.5
42.5°	18557.7	18545.5	17386.5	16183.5	15455.8	13422.1	11175.4	10180.5	10138.9	10565.2	10455.0
45°	20552.2	20549.7	19604.0	18249.1	17712.5	15534.2	12895.3	11523.3	11459.6	11628.6	11322.3
47.5°	21402.5	21417.1	20941.7	19988.6	20214.1	18391.2	15063.8	13468.6	13373.2	13304.5	12839.0
50°	20740.8	20770.3	20809.4	20623.3	22049.3	22230.6	17972.2	16210.5	16163.9	15857.7	15130.0
52.5°	18579.9	18729.3	19190.0	19780.4	22686.3	25915.7	22531.9	19616.3	19366.3	19040.5	18239.2
55°	14938.9	15103.1	15977.8	17411.0	21738.2	28336.5	28922.1	24007.1	23590.5	22617.7	21461.2
57.5°	9886.6	10141.3	11410.5	13233.6	18984.2	28726.1	35297.6	30100.6	28650.2	25986.8	24683.3
60°	5446.9	5691.8	7068.9	8720.2	13711.3	26800.3	39585.3	38034.3	35471.5	29752.8	28596.3
62.5°	3354.4	3486.6	4503.5	6039.8	8222.8	21152.5	40472.2	48004.2	45037.1	34601.6	33322.6
65°	2670.8	2727.1	3224.5	4937.2	5895.1	12581.8	37608.0	55604.7	54614.9	40472.2	37554.2
67°	2592.2	2614.3	2849.6	4238.8	5557.1	7713.1	31507.1	56842.1	57846.6	44025.2	37686.5
67.5°	2609.4	2634.0	2856.9	4045.2	5547.3	7088.4	29404.8	56354.5	57623.7	44306.8	37100.9
70°	2516.3	2592.2	3271.0	4042.8	5275.2	5890.2	17609.6	48827.5	50148.2	41168.2	31480.2
72.5°	891.8	896.8	1413.8	3271.0	5735.9	5954.0	8842.7	35794.9	36772.5	31492.3	22696.1
75°	529.2	450.8	470.4	931.1	5481.1	5782.5	5101.4	22872.6	23237.6	18045.7	11493.9
77.5°	365.2	318.4	328.3	411.7	2087.7	5701.6	4052.7	11927.5	11538.0	6328.9	2447.7
80°	208.2	183.8	196.0	360.2	759.5	5319.4	3822.3	4836.7	4123.7	1073.1	676.2
82.5°	110.2	93.2	112.6	296.5	529.2	3315.1	3829.7	2337.5	1852.3	362.6	460.7
85°	39.2	31.9	53.9	203.3	352.9	1016.8	3550.3	1965.0	1543.6	176.3	350.3
87.5°	7.4	7.4	22.1	83.4	142.1	311.2	2099.8	1166.3	781.6	105.3	240.0
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°	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2	9264.2
2.5°	9234.8	9129.5	8987.4	8813.4	8607.5	8426.2	8291.4	8151.8	8122.4	8073.3	8066.1
5°	9173.5	8992.3	8639.4	8235.1	7803.8	7414.3	7098.1	6816.5	6691.5	6583.7	6571.5
7.5°	9082.9	8810.8	8210.6	7558.9	6885.1	6272.4	5753.0	5385.5	5047.3	4885.7	4861.2
10°	8977.5	8587.9	7727.8	6823.7	5892.7	5027.9	4256.0	3609.1	3217.1	2984.3	2955.0
12.5°	8879.4	8369.9	7235.4	6061.9	4824.4	3667.9	2675.6	2058.1	1646.6	1479.9	1460.4
15°	8832.9	8193.4	6774.7	5282.7	3707.1	2335.1	1462.8	1132.0	997.2	958.0	955.5
17.5°	8828.1	8044.1	6324.0	4476.6	2597.2	1357.3	953.1	869.7	842.9	833.1	833.1
20°	8825.6	7901.9	5873.1	3641.0	1649.0	904.1	793.8	774.2	754.7	742.4	742.4
22.5°	8852.5	7774.6	5402.6	2788.2	1038.9	732.6	698.3	678.7	654.1	637.1	634.7
25°	8879.4	7676.5	4922.4	1984.6	752.2	637.1	602.8	575.9	541.5	519.4	517.0
27.5°	8884.3	7553.9	4408.0	1328.1	629.7	556.2	512.2	470.4	431.2	409.2	406.8
30°	8810.8	7348.1	3837.0	896.8	556.2	482.7	423.9	379.8	343.1	325.8	325.8
32.5°	8666.4	7093.2	3209.7	676.2	495.0	414.1	350.3	308.7	284.3	276.9	274.4
35°	8536.5	6818.9	2565.4	573.4	443.6	350.3	286.6	259.7	245.0	242.5	240.0
37.5°	8460.5	6598.4	1960.1	519.4	394.4	294.0	242.5	223.0	215.7	210.7	213.2
40°	8519.3	6414.5	1448.1	475.4	345.5	245.0	205.8	196.0	188.6	186.2	186.2
42.5°	8776.6	6382.7	1075.6	436.1	299.0	203.3	178.9	171.4	166.6	164.2	166.6
45°	9452.9	6578.7	835.6	399.3	252.3	171.4	152.0	149.5	147.1	147.1	147.1
47.5°	10469.7	6983.1	695.8	357.7	210.7	147.1	132.3	129.8	127.4	129.8	129.8
50°	12192.2	7723.0	622.3	316.1	173.9	125.0	112.6	112.6	112.6	112.6	115.2
52.5°	14811.4	9178.4	573.4	274.4	142.1	105.3	95.6	95.6	98.1	98.1	100.5
55°	17729.6	11109.2	529.2	232.8	120.1	88.3	78.4	80.8	83.4	85.8	85.8
57.5°	20895.3	13248.3	492.5	191.1	102.9	71.1	66.1	68.6	71.1	75.9	75.9
60°	24715.1	15563.7	438.6	149.5	85.8	56.4	51.5	56.4	63.7	68.6	71.1
62.5°	28909.9	17803.1	370.0	117.6	71.1	44.0	41.6	51.5	61.3	66.1	68.6
65°	31776.6	18506.3	284.3	95.6	53.9	31.9	34.2	46.5	58.7	66.1	66.1
67°	30615.1	16778.9	232.8	80.8	44.0	24.6	31.9	46.5	58.7	63.7	66.1
67.5°	29809.0	16102.7	223.0	78.4	41.6	24.6	31.9	46.5	58.7	66.1	66.1
70°	24254.4	12096.5	186.2	58.7	34.2	22.1	26.9	44.0	56.4	63.7	63.7
72.5°	16852.5	7458.4	166.6	41.6	29.5	19.7	24.6	41.6	53.9	61.3	63.7
75°	8012.2	2700.1	142.1	31.9	26.9	17.2	22.1	41.6	53.9	61.3	61.3
77.5°	1634.2	627.2	115.2	26.9	22.1	17.2	19.7	39.2	51.5	58.7	58.7
80°	536.6	242.5	85.8	24.6	22.1	17.2	19.7	36.7	51.5	56.4	58.7
82.5°	387.1	122.4	56.4	24.6	22.1	17.2	17.2	36.7	49.0	56.4	56.4
85°	296.5	85.8	36.7	24.6	22.1	17.2	17.2	34.2	46.5	53.9	53.9
87.5°	196.0	34.2	29.5	24.6	22.1	17.2	17.2	34.2	44.0	51.5	53.9
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)