

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: P192806

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192806
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-08-LED-U-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 41921.7 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

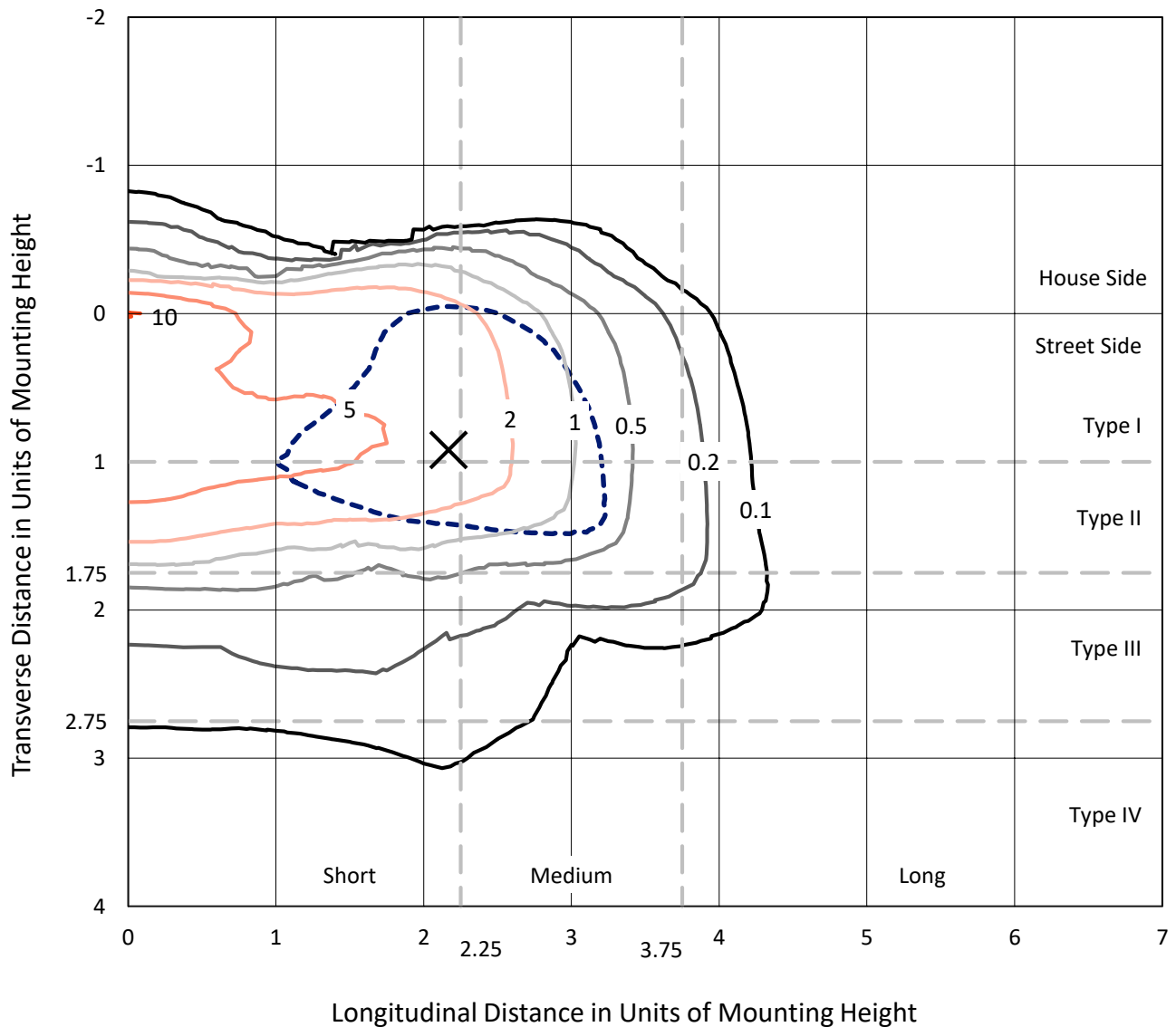


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

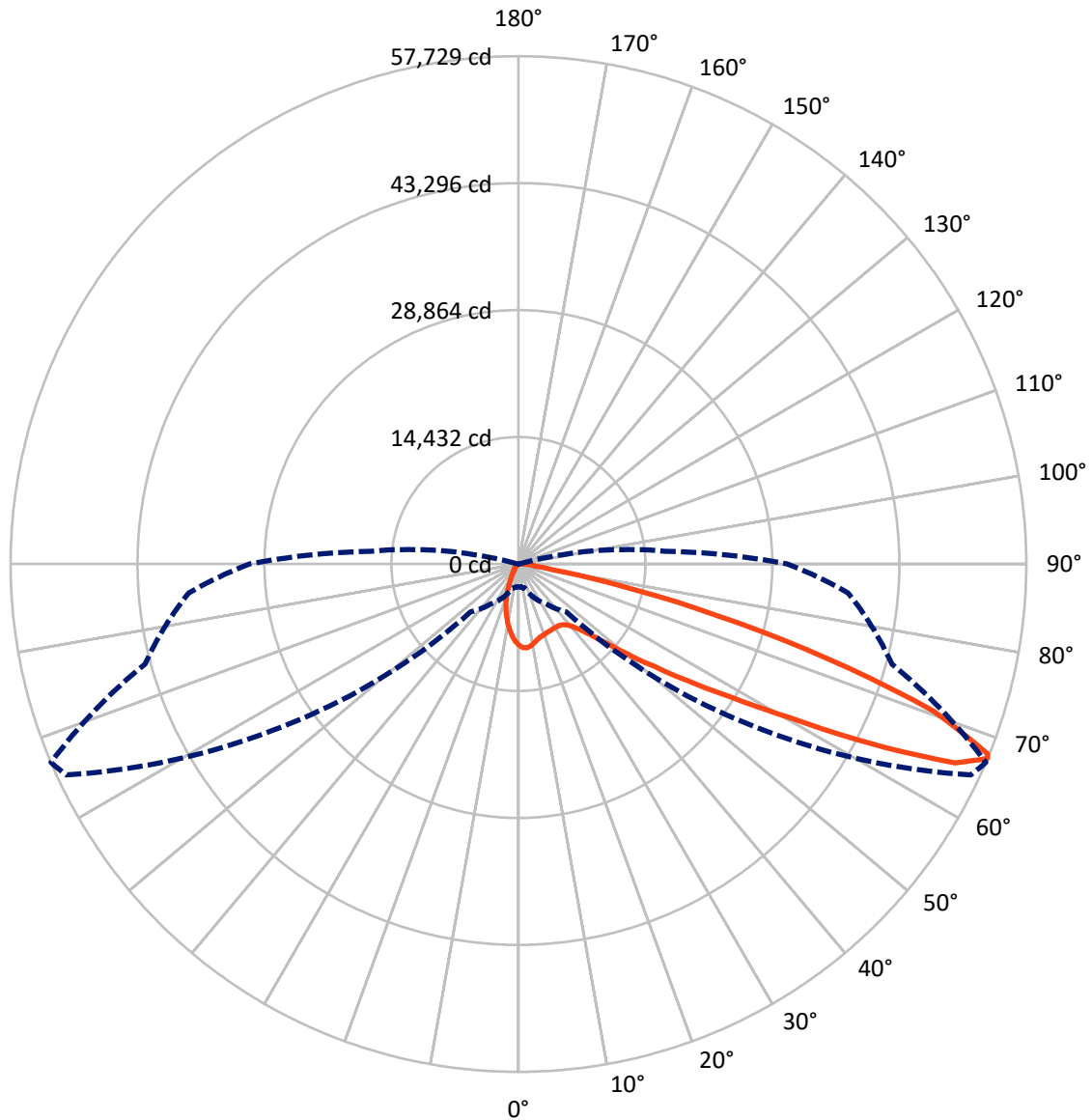


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

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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	4352.7	0.0	4352.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	37569.0	0.0	37569.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	41921.7	0.0	41921.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.3	1.8
10°-20°	1601.1	3.8
20°-30°	2327.9	5.6
30°-40°	3631.6	8.7
40°-50°	6433.2	15.3
50°-60°	10179.9	24.3
60°-70°	11659.7	27.8
70°-80°	4836.4	11.5
80°-90°	499.6	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°	41921.7	100.0
0°-180°	41921.7	100.0



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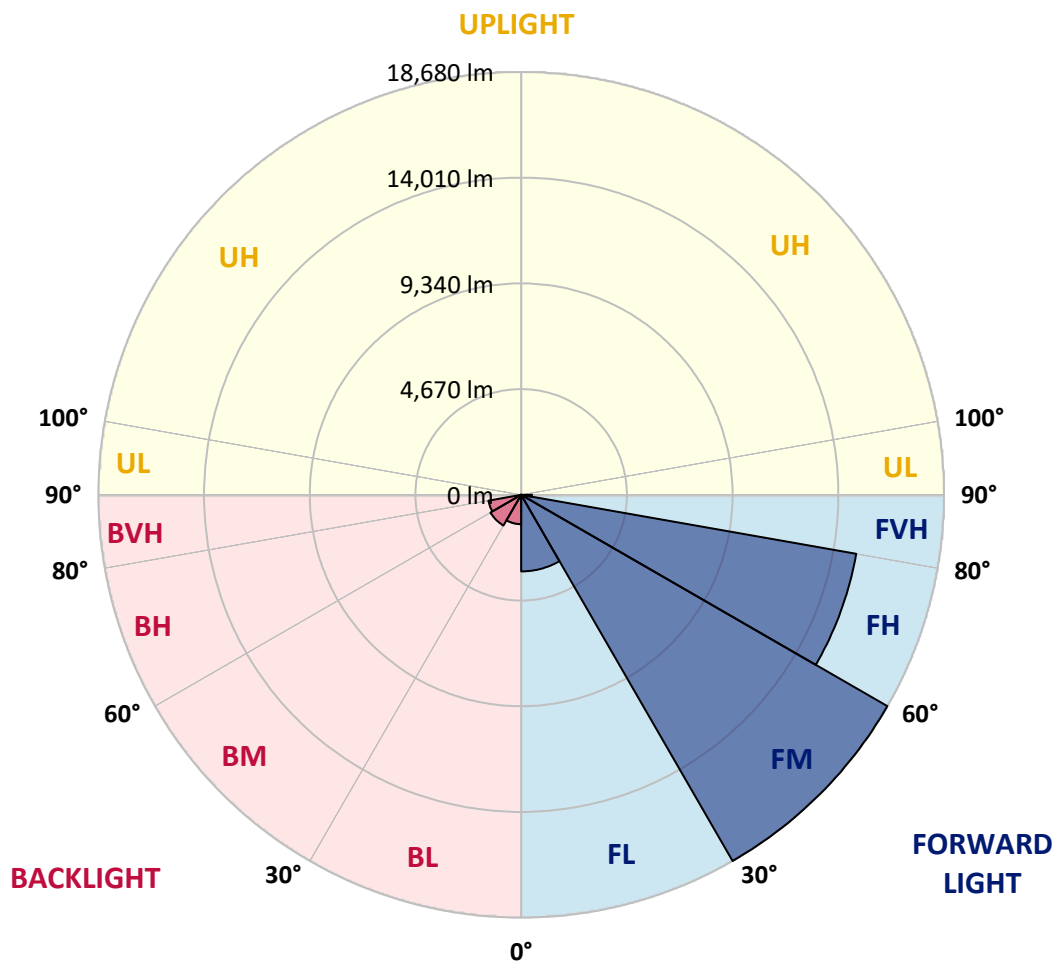
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.4	8.1			
FM	(30°-60°)	18680.4	44.6			
FH	(60°-80°)	15029.0	35.9			G5
FVH	(80°-90°)	477.1	1.1			G3/500
BL	(0°-30°)	1298.9	3.1	B3/2500		
BM	(30°-60°)	1564.3	3.7	B2/2500		
BH	(60°-80°)	1467.0	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°	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3
2.5°	9558.2	9577.7	9575.4	9590.0	9624.3	9626.8	9592.5	9526.5	9511.8	9426.3	9277.1
5°	8814.9	8871.2	8905.4	9044.8	9201.3	9389.5	9531.3	9582.7	9575.4	9514.3	9289.3
7.5°	7966.4	8022.7	8061.8	8225.6	8433.5	8756.2	9125.5	9428.6	9455.6	9521.6	9279.5
10°	7401.6	7411.4	7465.1	7621.7	7839.3	8169.5	8609.5	9140.1	9220.8	9463.0	9255.1
12.5°	6937.0	6944.3	7015.2	7184.1	7416.3	7748.7	8211.0	8824.7	8949.4	9389.5	9250.2
15°	6606.9	6633.7	6697.4	6873.4	7120.4	7450.5	7924.9	8592.3	8741.7	9362.7	9294.1
17.5°	6496.9	6526.3	6545.8	6672.9	6897.9	7220.6	7707.2	8440.9	8609.5	9377.2	9379.8
20°	6611.9	6633.7	6589.8	6621.5	6761.0	7049.5	7523.8	8311.3	8511.8	9394.4	9489.8
22.5°	7039.7	7049.5	6929.7	6790.4	6765.9	6924.8	7379.6	8208.5	8423.7	9440.9	9619.4
25°	7773.2	7756.2	7560.5	7259.7	6976.1	6902.8	7294.0	8144.9	8379.6	9489.8	9753.9
27.5°	8658.5	8682.9	8413.9	7976.3	7435.8	7049.5	7281.8	8118.1	8360.1	9524.0	9871.2
30°	9734.4	9768.6	9460.4	8910.3	8135.1	7411.4	7394.2	8113.1	8347.9	9502.1	9881.1
32.5°	10832.2	10873.8	10631.7	10064.4	9069.2	8017.8	7648.5	8166.9	8372.3	9426.3	9824.8
35°	11981.5	12040.2	11878.7	11392.1	10335.8	8893.1	8096.0	8330.8	8487.3	9418.9	9768.6
37.5°	13568.4	13622.2	13318.9	12803.0	11869.0	10066.8	8814.9	8638.9	8758.7	9536.2	9783.2
40°	15937.7	15930.4	15148.0	14358.2	13553.7	11558.4	9824.8	9196.4	9257.5	9890.8	9964.1
42.5°	18519.9	18507.7	17351.1	16150.4	15424.2	13394.7	11152.5	10159.8	10118.2	10543.6	10433.6
45°	20510.2	20507.9	19564.0	18211.8	17676.3	15502.6	12869.1	11499.7	11436.1	11604.9	11299.3
47.5°	21358.8	21373.4	20899.1	19947.9	20172.9	18353.6	15033.1	13441.2	13345.9	13277.4	12812.9
50°	20698.6	20727.9	20767.0	20581.1	22004.3	22185.2	17935.5	16177.4	16130.9	15825.3	15099.1
52.5°	18542.0	18691.1	19150.8	19740.1	22640.0	25862.9	22486.0	19576.2	19326.9	19001.6	18202.0
55°	14908.3	15072.2	15945.1	17375.5	21693.8	28278.7	28863.1	23958.1	23542.3	22571.6	21417.4
57.5°	9866.3	10120.6	11387.2	13206.5	18945.3	28667.5	35225.5	30039.2	28591.6	25933.8	24632.9
60°	5435.6	5680.2	7054.5	8702.5	13683.3	26745.6	39504.6	37956.7	35399.1	29692.0	28537.9
62.5°	3347.4	3479.5	4494.3	6027.4	8206.0	21109.3	40389.8	47906.3	44945.1	34531.1	33254.7
65°	2665.3	2721.5	3217.9	4927.0	5883.2	12556.1	37531.3	55491.2	54503.4	40389.8	37477.4
67°	2587.0	2609.0	2843.8	4230.2	5545.7	7697.5	31442.7	56726.1	57728.6	43935.3	37609.5
67.5°	2604.0	2628.6	2851.1	4037.0	5535.9	7074.0	29344.8	56239.4	57506.1	44216.4	37025.1
70°	2511.3	2587.0	3264.3	4034.6	5264.5	5878.2	17573.6	48727.9	50045.7	41084.1	31415.9
72.5°	890.0	895.0	1410.9	3264.3	5724.2	5941.8	8824.7	35721.9	36697.5	31428.1	22649.9
75°	528.2	449.9	469.5	929.1	5469.8	5770.6	5090.9	22825.9	23190.2	18008.8	11470.4
77.5°	364.4	317.8	327.7	410.9	2083.3	5690.0	4044.3	11903.2	11514.4	6315.9	2442.7
80°	207.8	183.3	195.6	359.5	758.0	5308.5	3814.5	4826.8	4115.2	1071.0	674.9
82.5°	110.1	92.9	112.4	295.9	528.2	3308.4	3821.9	2332.6	1848.5	361.8	459.7
85°	39.2	31.8	53.7	203.0	352.2	1014.8	3543.1	1961.1	1540.4	176.0	349.6
87.5°	7.3	7.3	22.0	83.1	141.8	310.6	2095.5	1163.9	780.0	105.1	239.6
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°	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3	9245.3
2.5°	9215.9	9110.8	8969.0	8795.4	8590.0	8409.0	8274.5	8135.1	8105.8	8056.9	8049.5
5°	9154.9	8973.9	8621.7	8218.3	7787.9	7399.1	7083.8	6802.5	6677.8	6570.2	6558.0
7.5°	9064.3	8792.9	8193.9	7543.5	6871.0	6259.7	5741.3	5374.6	5037.1	4875.7	4851.2
10°	8959.1	8570.4	7712.2	6809.9	5880.7	5017.5	4247.4	3601.7	3210.6	2978.3	2948.9
12.5°	8861.4	8352.8	7220.6	6049.3	4814.6	3660.4	2670.2	2054.0	1643.2	1476.8	1457.3
15°	8814.9	8176.8	6761.0	5271.9	3699.6	2330.3	1459.8	1129.6	995.3	956.0	953.7
17.5°	8810.0	8027.6	6311.1	4467.4	2591.9	1354.6	951.2	868.1	841.2	831.4	831.4
20°	8807.6	7885.8	5861.1	3633.5	1645.7	902.3	792.2	772.7	753.2	740.9	740.9
22.5°	8834.4	7758.6	5391.6	2782.7	1036.8	731.2	696.8	677.3	652.9	635.8	633.2
25°	8861.4	7660.8	4912.4	1980.7	750.7	635.8	601.5	574.6	540.4	518.4	515.9
27.5°	8866.3	7538.6	4398.9	1325.4	628.5	555.0	511.0	469.5	430.4	408.3	405.9
30°	8792.9	7333.2	3829.2	895.0	555.0	481.8	423.1	379.0	342.3	325.3	325.3
32.5°	8648.6	7078.8	3203.2	674.9	494.0	413.2	349.6	308.1	283.6	276.3	273.9
35°	8519.1	6805.0	2560.2	572.2	442.6	349.6	286.0	259.2	244.5	242.1	239.6
37.5°	8443.2	6584.9	1956.2	518.4	393.7	293.5	242.1	222.6	215.1	210.4	212.7
40°	8501.9	6401.5	1445.1	474.4	344.8	244.5	205.4	195.6	188.3	185.8	185.8
42.5°	8758.7	6369.7	1073.5	435.3	298.3	203.0	178.5	171.2	166.3	163.8	166.3
45°	9433.6	6565.4	833.7	398.6	251.9	171.2	151.7	149.1	146.7	146.7	146.7
47.5°	10448.4	6968.8	694.5	356.9	210.4	146.7	132.1	129.6	127.2	129.6	129.6
50°	12167.3	7707.2	621.0	315.4	173.6	124.7	112.4	112.4	112.4	112.4	114.9
52.5°	14781.2	9159.8	572.2	273.9	141.8	105.1	95.4	95.4	97.8	97.8	100.3
55°	17693.5	11086.5	528.2	232.2	119.8	88.1	78.2	80.8	83.1	85.5	85.5
57.5°	20852.5	13221.1	491.4	190.7	102.7	70.9	66.0	68.5	70.9	75.8	75.8
60°	24664.6	15531.9	437.7	149.1	85.5	56.3	51.4	56.3	63.6	68.5	70.9
62.5°	28850.9	17766.7	369.2	117.4	70.9	44.0	41.5	51.4	61.0	66.0	68.5
65°	31711.7	18468.5	283.6	95.4	53.7	31.8	34.2	46.4	58.7	66.0	66.0
67°	30552.7	16744.6	232.2	80.8	44.0	24.5	31.8	46.4	58.7	63.6	66.0
67.5°	29748.2	16069.9	222.6	78.2	41.5	24.5	31.8	46.4	58.7	66.0	66.0
70°	24205.0	12071.9	185.8	58.7	34.2	22.0	26.9	44.0	56.3	63.6	63.6
72.5°	16818.1	7443.2	166.3	41.5	29.4	19.5	24.5	41.5	53.7	61.0	63.6
75°	7995.8	2694.6	141.8	31.8	26.9	17.2	22.0	41.5	53.7	61.0	61.0
77.5°	1630.9	625.9	114.9	26.9	22.0	17.2	19.5	39.2	51.4	58.7	58.7
80°	535.5	242.1	85.5	24.5	22.0	17.2	19.5	36.7	51.4	56.3	58.7
82.5°	386.3	122.3	56.3	24.5	22.0	17.2	17.2	36.7	48.9	56.3	56.3
85°	295.9	85.5	36.7	24.5	22.0	17.2	17.2	34.2	46.4	53.7	53.7
87.5°	195.6	34.2	29.4	24.5	22.0	17.2	17.2	34.2	44.0	51.4	53.7
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)