

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: P192867

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35523.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 374  
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

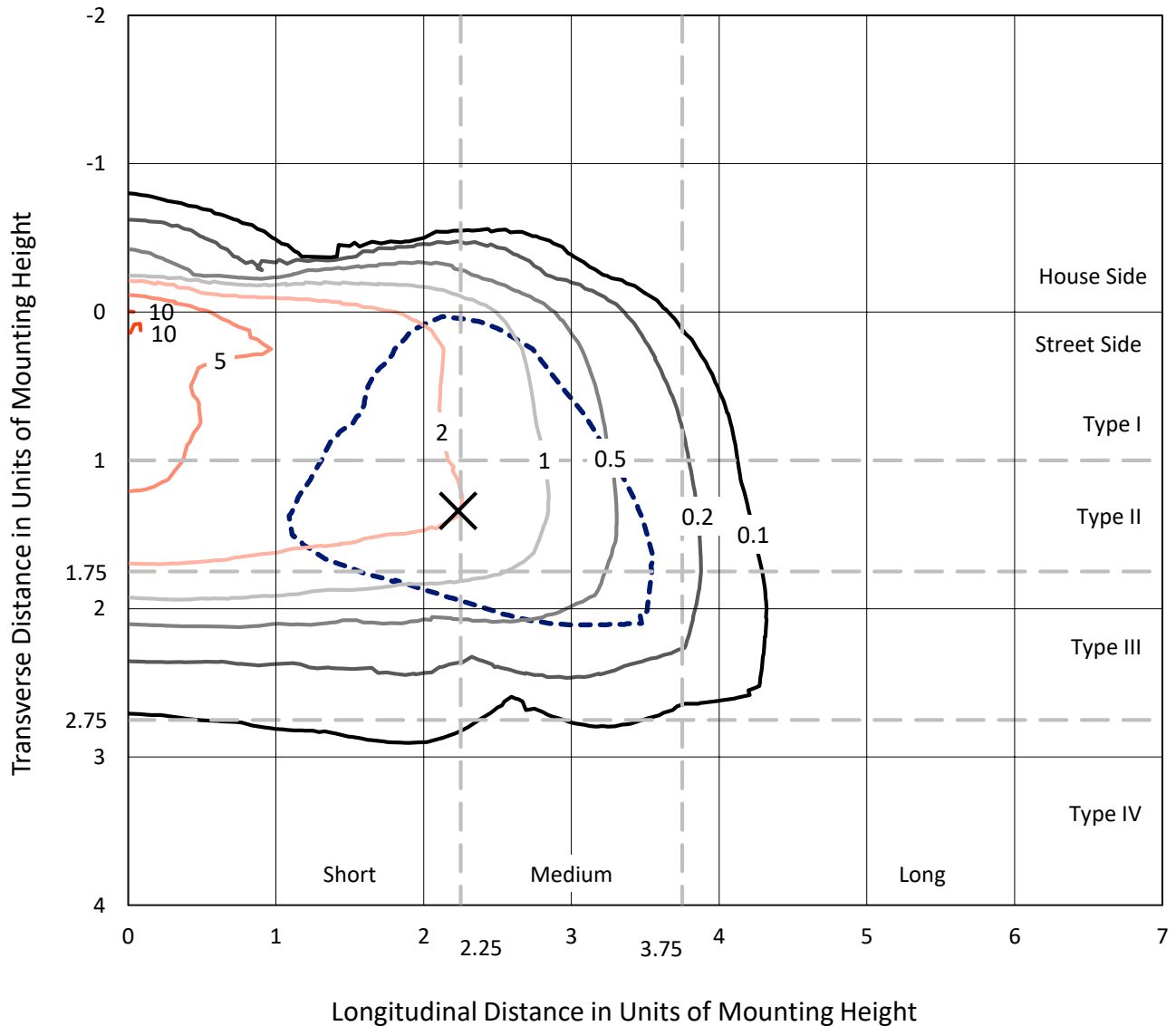


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

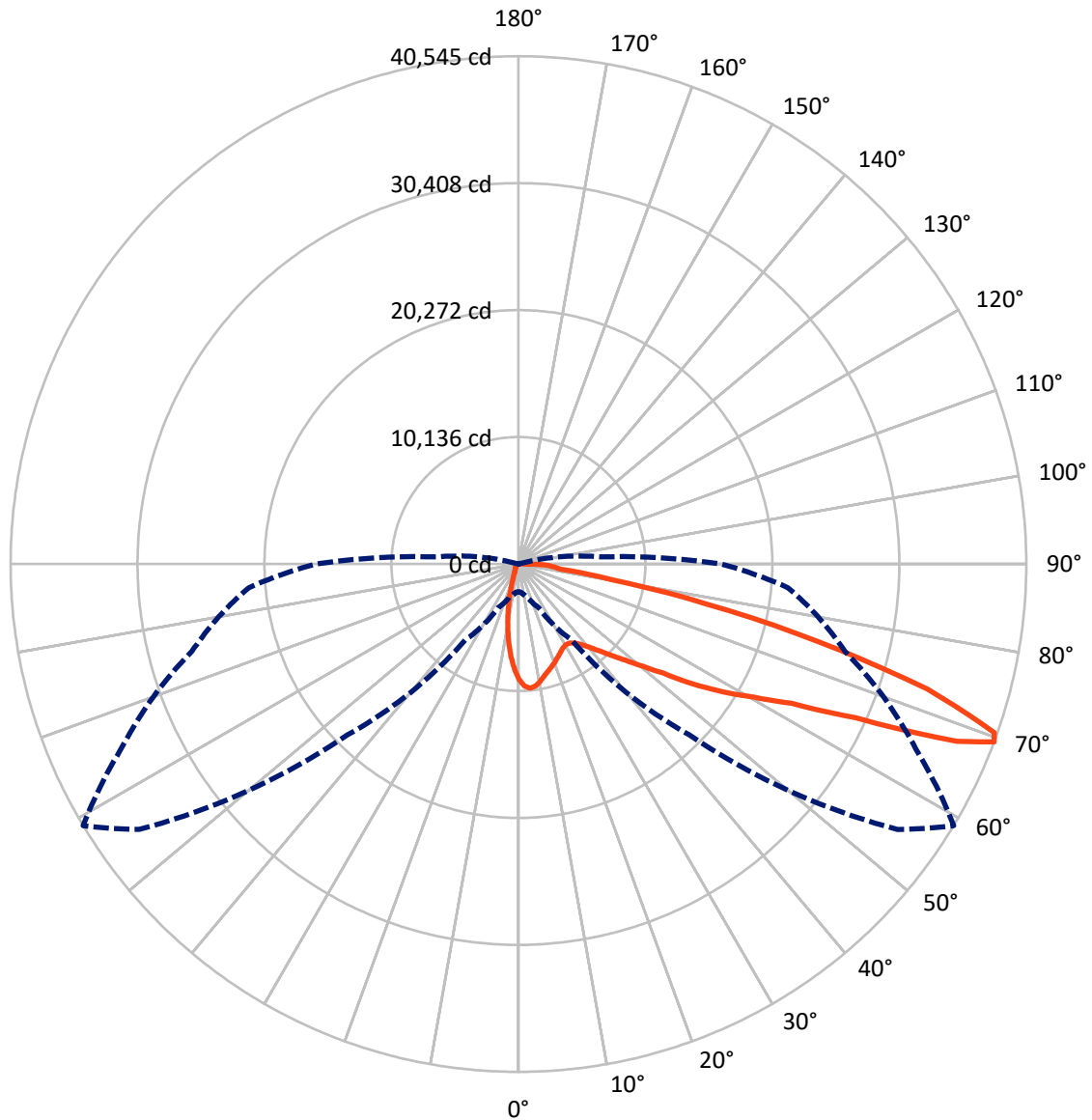


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2892.9	0.0	2892.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	32630.5	0.0	32630.5
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	35523.5	0.0	35523.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	750.5	2.1
10°-20°	1550.8	4.4
20°-30°	2086.8	5.9
30°-40°	3029.9	8.5
40°-50°	5045.0	14.2
50°-60°	7870.1	22.2
60°-70°	9738.6	27.4
70°-80°	4935.4	13.9
80°-90°	516.4	1.5
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°	35523.5	100.0
0°-180°	35523.5	100.0



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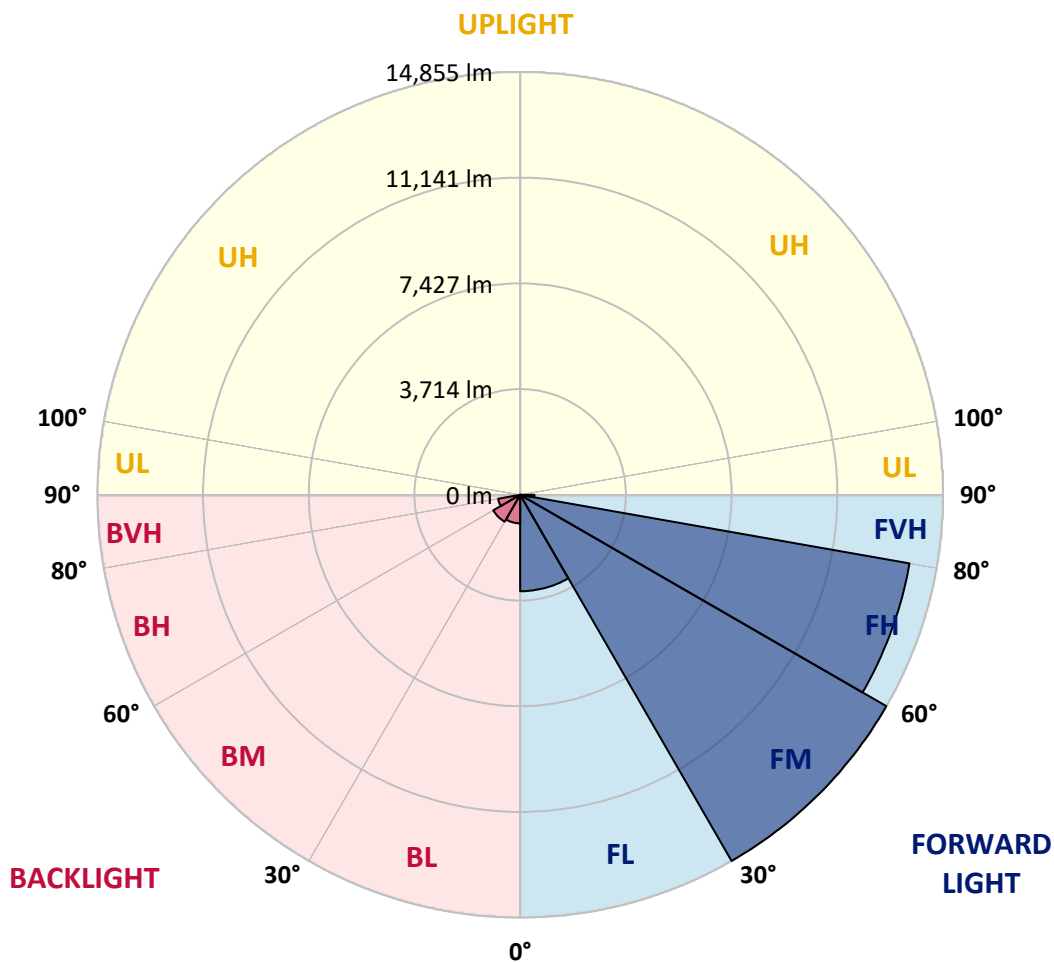
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3386.8	9.5			
FM	(30°-60°)	14854.9	41.8			
FH	(60°-80°)	13888.4	39.1			G5
FVH	(80°-90°)	500.5	1.4			G4/750
BL	(0°-30°)	1001.3	2.8	B3/2500		
BM	(30°-60°)	1090.1	3.1	B2/2500		
BH	(60°-80°)	785.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.9	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3
2.5°	10134.2	10130.1	10085.9	10065.8	10029.7	9953.3	9834.9	9772.5	9672.0	9497.4	9262.4
5°	10041.7	10090.0	10116.1	10118.1	10144.1	10116.1	10009.6	9957.4	9818.8	9537.6	9115.7
7.5°	9415.0	9433.1	9507.4	9571.6	9696.2	9814.8	9852.9	9830.8	9748.4	9447.1	8886.7
10°	8744.1	8762.1	8850.5	8934.9	9103.6	9286.5	9479.4	9519.4	9553.6	9318.6	8665.8
12.5°	8165.6	8183.6	8273.9	8384.5	8581.3	8806.3	9105.6	9172.0	9322.5	9196.1	8489.0
15°	7667.4	7675.5	7763.9	7900.4	8135.5	8424.7	8764.1	8870.6	9101.7	9109.7	8334.3
17.5°	7243.6	7263.7	7317.8	7448.4	7705.5	8063.2	8458.9	8611.5	8882.7	9037.4	8183.6
20°	6984.4	7004.5	7002.5	7074.7	7305.8	7687.5	8153.5	8336.3	8665.8	8963.1	8049.0
22.5°	6934.2	6934.2	6882.0	6872.0	7008.6	7327.9	7836.1	8059.1	8470.9	8930.9	7954.6
25°	7113.0	7104.9	6974.3	6867.9	6873.9	7064.8	7528.8	7793.9	8306.2	8953.0	7904.5
27.5°	7490.6	7480.6	7315.9	7113.0	6950.3	6948.3	7295.8	7581.1	8175.7	9057.5	7924.5
30°	8012.8	8008.9	7830.1	7575.0	7279.7	7008.6	7215.4	7474.5	8091.2	9246.3	7970.7
32.5°	8583.4	8577.4	8442.8	8173.5	7800.0	7279.7	7299.8	7516.7	8115.3	9497.4	8083.2
35°	9188.0	9178.0	9119.8	8884.8	8472.9	7780.0	7577.0	7745.7	8267.9	9873.0	8304.1
37.5°	9842.8	9852.9	9895.1	9670.1	9238.2	8480.9	8041.1	8155.5	8575.3	10383.2	8663.7
40°	10809.0	10807.1	10821.1	10525.8	10110.0	9338.7	8689.8	8726.0	9089.6	11060.2	9210.1
42.5°	12562.7	12440.1	12068.6	11465.8	11048.1	10319.0	9507.4	9469.3	9718.3	11897.8	9975.5
45°	14919.1	14657.7	13693.7	12538.6	12004.4	11423.7	10513.8	10391.2	10550.0	12904.2	10919.6
47.5°	16945.8	16674.6	15310.7	13655.4	13018.7	12472.3	11692.9	11472.0	11524.2	14031.1	12116.8
50°	17634.8	17502.2	16311.0	14627.7	14000.9	13792.1	13060.9	12791.7	12717.3	15334.7	13504.8
52.5°	17395.7	17385.7	16592.2	15258.5	14900.9	15158.0	14782.3	14471.1	14197.8	16708.8	14916.9
55°	17012.1	17062.3	16706.8	15810.9	15798.8	16405.5	17136.7	16877.5	16086.0	18201.3	16134.4
57.5°	15953.5	16168.4	16642.5	16855.4	17349.6	17970.3	19097.2	19249.9	18313.7	19344.3	17144.6
60°	12944.4	13416.4	14967.2	17006.1	19348.2	20895.0	21463.4	21594.0	20141.7	20294.4	18508.6
62.5°	9188.0	9670.1	11636.6	15085.7	19378.4	24737.7	24988.8	24476.6	22154.5	21702.5	20860.9
65°	4877.3	5248.9	6855.9	10889.5	16801.2	25629.6	31153.6	29627.1	25706.0	24472.6	23900.1
67.5°	2494.8	2607.4	3246.1	5329.2	11550.4	22765.1	36679.8	37754.4	31826.5	27220.6	23753.4
69°	2207.6	2273.9	2697.7	3852.8	7396.2	19282.0	36948.9	40544.6	35030.6	26991.5	21586.1
70°	2137.3	2195.6	2581.2	3487.2	5781.1	16170.4	35918.4	40299.5	35850.1	26119.7	19966.9
72.5°	1813.9	1864.1	2298.0	3081.4	4698.4	8026.9	29177.0	34148.8	32170.1	21758.8	14453.0
75°	1213.4	1378.0	2205.6	2888.6	4371.0	4559.8	19235.7	24677.6	22923.8	14675.9	7528.8
77.5°	291.2	313.3	622.7	2298.0	3997.4	4013.5	9893.1	15340.8	12512.5	5230.8	1779.8
80°	156.7	150.7	174.9	455.9	3722.3	3766.3	4453.4	7446.4	4467.5	867.7	586.5
82.5°	110.5	104.5	112.5	190.8	1171.1	3431.0	3222.0	3370.6	1852.1	333.5	263.1
85°	40.2	38.1	62.3	172.7	367.5	1972.5	3310.4	2780.1	1500.5	152.6	192.9
87.5°	14.1	12.0	24.1	94.4	112.5	839.6	2042.9	2101.2	590.5	92.5	90.3
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°	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3
2.5°	9163.9	9039.3	8810.3	8575.3	8358.5	8097.3	7966.7	7838.2	7783.8	7763.9	7669.5
5°	8898.7	8687.9	8201.8	7713.6	7263.7	6785.5	6470.3	6217.1	6068.5	5996.1	5881.7
7.5°	8559.3	8213.8	7476.6	6723.3	6022.3	5331.2	4819.0	4425.2	4154.0	4023.5	3905.0
10°	8229.9	7769.9	6721.3	5694.8	4742.6	3826.7	3119.6	2607.4	2279.9	2129.3	2032.9
12.5°	7934.5	7338.0	5992.1	4692.4	3497.3	2424.6	1705.4	1297.7	1094.8	1024.5	990.3
15°	7671.4	6940.2	5303.1	3740.3	2368.3	1386.1	932.1	793.4	761.3	761.3	757.2
17.5°	7422.3	6550.5	4638.2	2846.4	1486.5	847.8	709.1	690.9	690.9	699.0	699.0
20°	7183.2	6178.9	3995.4	2042.9	936.1	672.9	640.8	636.8	640.8	650.8	650.8
22.5°	6978.4	5841.4	3394.8	1402.2	695.0	606.6	590.5	584.5	586.5	592.6	596.5
25°	6825.8	5556.2	2828.2	950.1	598.6	552.5	534.3	524.3	516.2	516.2	520.3
27.5°	6729.3	5315.1	2279.9	690.9	538.3	502.1	474.0	458.1	439.9	429.8	433.9
30°	6659.1	5086.1	1765.7	564.5	482.1	446.0	409.8	383.7	357.6	345.5	349.5
32.5°	6632.9	4901.4	1319.8	498.2	431.9	391.7	347.6	313.3	285.2	275.3	277.2
35°	6703.2	4754.8	966.2	449.9	391.7	341.4	291.2	253.2	231.0	225.0	227.0
37.5°	6888.0	4676.4	723.2	409.8	355.5	299.3	243.1	206.9	192.9	192.9	194.8
40°	7237.6	4674.3	580.5	381.7	323.4	259.2	200.9	174.9	166.7	170.8	172.7
42.5°	7747.8	4780.8	506.2	355.5	295.3	220.9	166.7	148.7	146.6	150.7	152.6
45°	8444.7	4975.6	466.0	333.5	265.2	184.7	140.6	128.6	128.6	134.6	136.6
47.5°	9298.5	5261.0	431.9	311.4	235.0	154.7	120.5	112.5	114.5	120.5	122.5
50°	10326.9	5620.6	397.7	287.3	212.9	128.6	104.5	98.5	100.4	108.5	110.5
52.5°	11498.1	6104.6	369.7	265.2	184.7	106.4	88.4	84.3	88.4	96.3	98.5
55°	12502.4	6538.5	335.4	247.0	148.7	88.4	72.3	72.3	76.4	86.5	88.4
57.5°	13468.6	6992.5	305.4	212.9	116.5	70.3	60.3	62.3	68.3	78.3	80.3
60°	14886.8	7761.8	269.3	178.7	88.4	56.3	50.3	52.2	60.3	70.3	72.3
62.5°	17295.3	8932.9	233.0	148.7	68.3	44.1	40.2	44.1	54.2	66.3	68.3
65°	19468.8	9409.0	190.8	124.5	52.2	34.2	34.2	40.2	52.2	64.3	66.3
67.5°	18257.5	7920.5	148.7	98.5	40.2	26.1	28.1	38.1	50.3	64.3	66.3
69°	16146.4	6476.3	126.5	78.3	34.2	24.1	26.1	38.1	50.3	62.3	64.3
70°	14501.1	5467.8	112.5	66.3	30.1	24.1	26.1	36.2	50.3	62.3	64.3
72.5°	9712.3	2952.8	90.3	48.2	28.1	22.1	22.1	36.2	48.2	60.3	62.3
75°	4174.1	815.5	72.3	34.2	24.1	20.1	20.1	34.2	46.2	58.2	62.3
77.5°	763.2	206.9	58.2	30.1	24.1	20.1	18.0	32.1	44.1	56.3	58.2
80°	303.3	102.4	46.2	26.1	22.1	18.0	16.1	30.1	42.2	54.2	56.3
82.5°	182.8	58.2	38.1	24.1	22.1	16.1	14.1	26.1	40.2	52.2	54.2
85°	148.7	40.2	30.1	24.1	20.1	16.1	12.0	24.1	36.2	50.3	52.2
87.5°	72.3	28.1	28.1	22.1	20.1	16.1	12.0	22.1	34.2	48.2	50.3
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)