

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: P192807

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192807  
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-SL2-7030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 46763 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

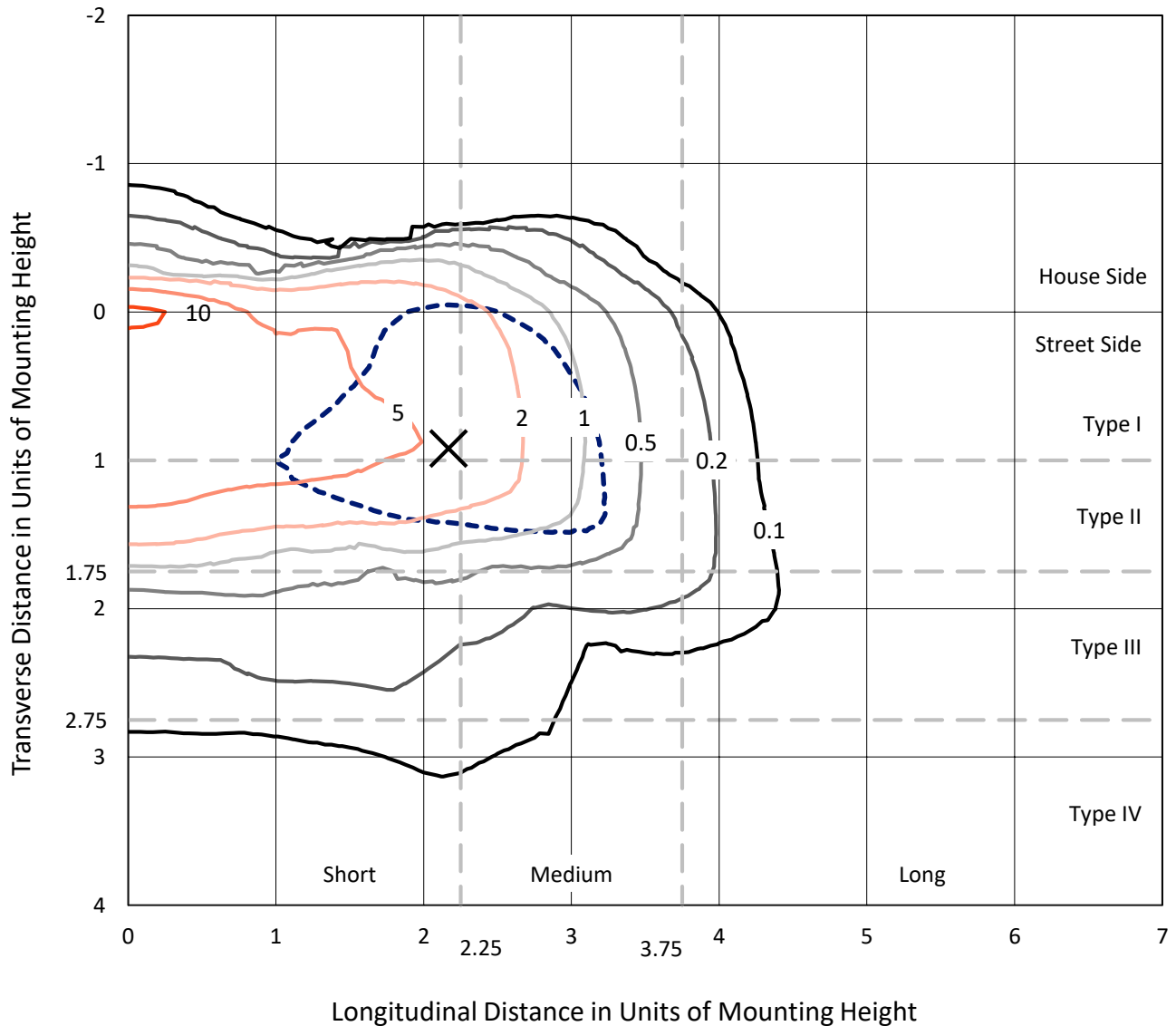


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

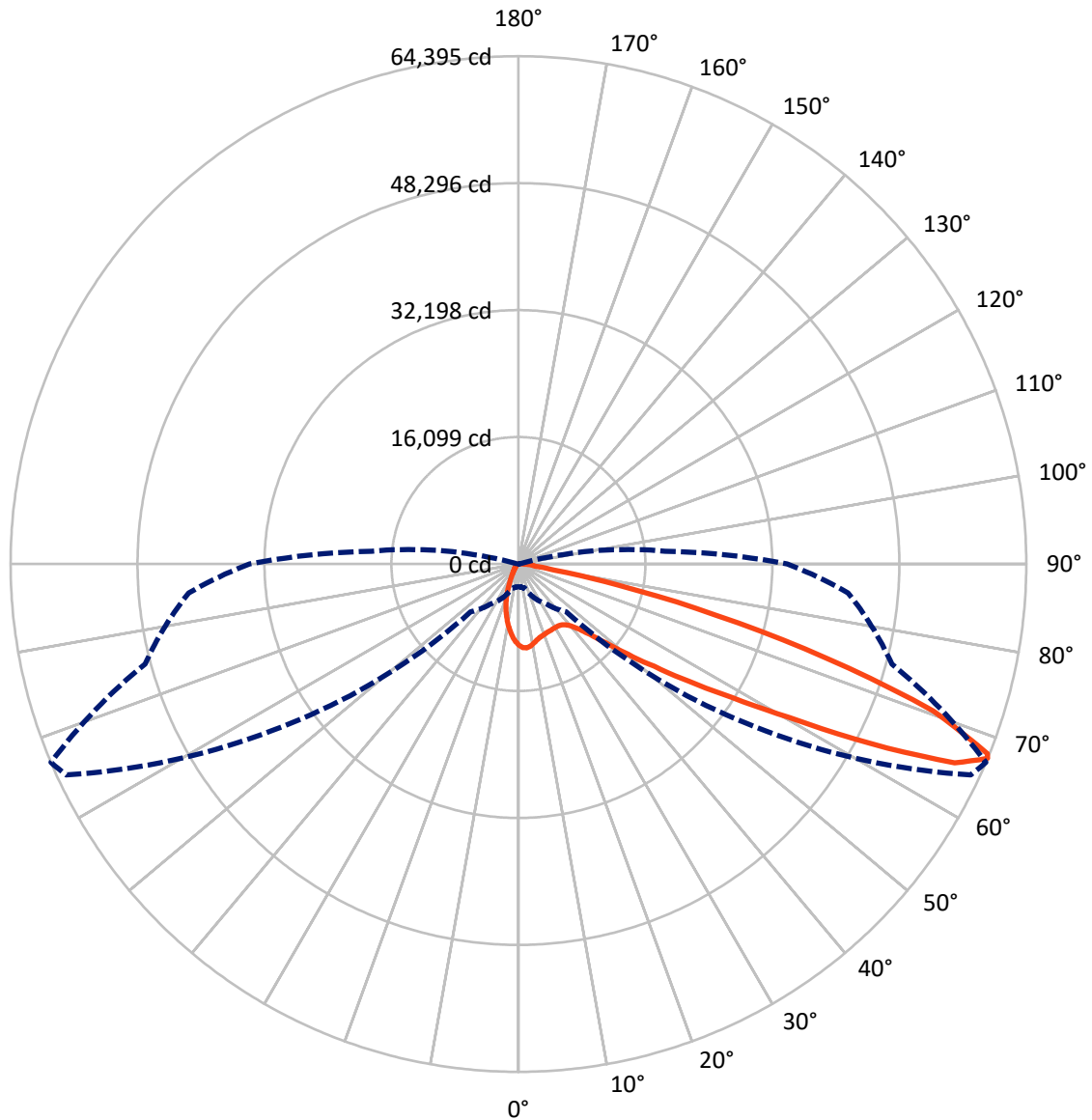


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	4855.4	0.0	4855.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	41907.6	0.0	41907.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	46763.0	0.0	46763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.2	1.8
10°-20°	1786.0	3.8
20°-30°	2596.7	5.6
30°-40°	4051.0	8.7
40°-50°	7176.1	15.3
50°-60°	11355.6	24.3
60°-70°	13006.2	27.8
70°-80°	5394.9	11.5
80°-90°	557.3	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°	46763.0	100.0
0°-180°	46763.0	100.0

**Coefficient of Utilization**



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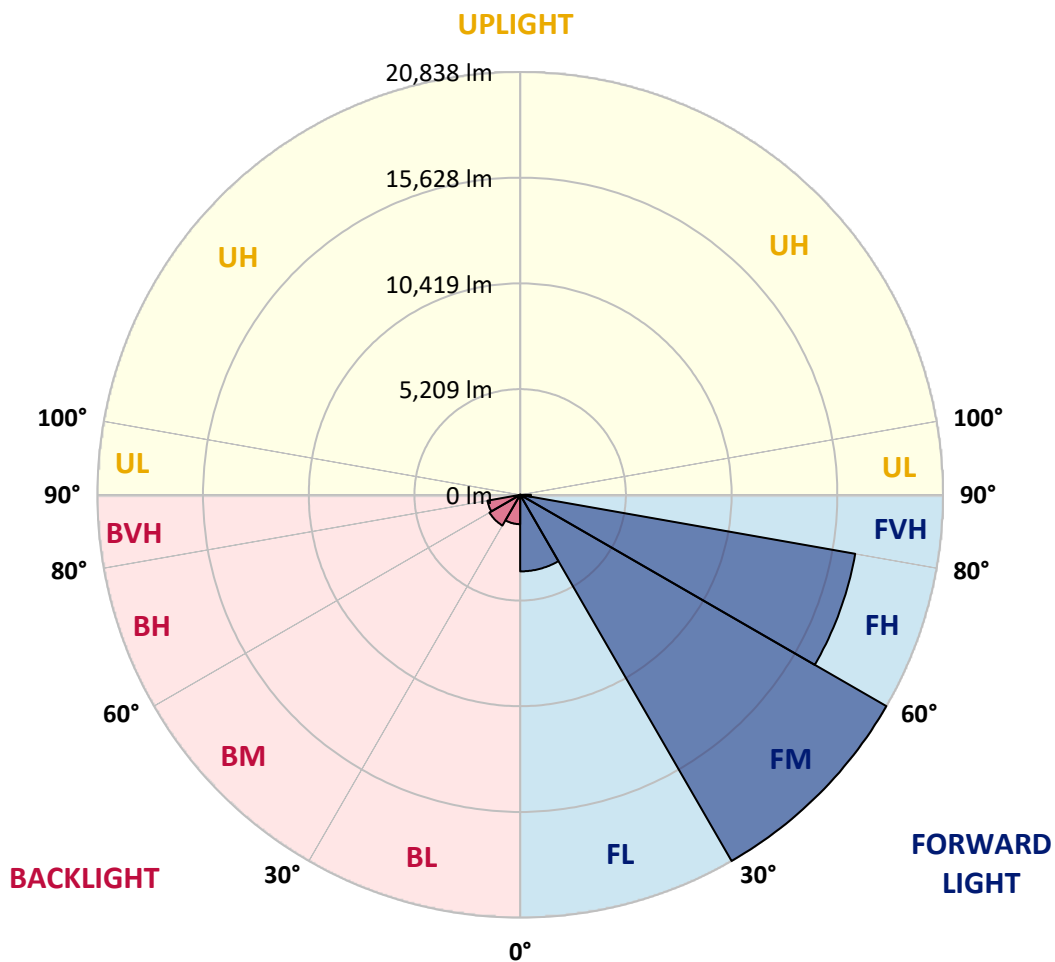
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.1	8.1			
FM (30°-60°)	20837.7	44.6			
FH (60°-80°)	16764.6	35.9			G5
FVH (80°-90°)	532.2	1.1			G4/750
BL (0°-30°)	1448.9	3.1	B3/2500		
BM (30°-60°)	1745.0	3.7	B2/2500		
BH (60°-80°)	1636.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	25.1	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°	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0
2.5°	10662.1	10683.9	10681.1	10697.6	10735.7	10738.4	10700.3	10626.7	10610.2	10514.8	10348.4
5°	9832.9	9895.6	9933.9	10089.3	10263.9	10473.9	10632.1	10689.4	10681.1	10613.0	10362.0
7.5°	8886.5	8949.2	8992.8	9175.6	9407.4	9767.4	10179.3	10517.6	10547.6	10621.2	10351.1
10°	8256.4	8267.3	8327.3	8501.9	8744.6	9112.9	9603.8	10195.6	10285.6	10555.7	10323.9
12.5°	7738.2	7746.3	7825.3	8013.6	8272.8	8643.7	9159.2	9843.8	9982.9	10473.9	10318.5
15°	7369.9	7399.9	7470.8	7667.2	7942.7	8311.0	8840.0	9584.7	9751.1	10443.9	10367.5
17.5°	7247.1	7280.0	7301.7	7443.5	7694.5	8054.5	8597.3	9415.6	9603.8	10460.3	10463.0
20°	7375.3	7399.9	7350.9	7386.3	7541.7	7863.6	8392.8	9270.9	9494.7	10479.4	10585.7
22.5°	7852.7	7863.6	7730.0	7574.5	7547.2	7724.5	8231.8	9156.5	9396.6	10531.2	10730.3
25°	8671.0	8651.9	8433.6	8098.2	7781.8	7699.9	8136.3	9085.6	9347.3	10585.7	10880.2
27.5°	9658.3	9685.7	9385.6	8897.3	8294.5	7863.6	8122.8	9055.5	9325.6	10624.0	11011.2
30°	10858.5	10896.7	10553.1	9939.4	9074.6	8267.3	8248.2	9050.1	9311.9	10599.4	11022.2
32.5°	12083.2	12129.5	11859.5	11226.7	10116.6	8943.8	8531.8	9110.1	9339.3	10514.8	10959.4
35°	13365.1	13430.5	13250.5	12707.7	11529.5	9920.2	9031.1	9292.8	9467.5	10506.6	10896.7
37.5°	15135.3	15195.3	14857.1	14281.6	13239.6	11229.4	9832.9	9636.5	9770.2	10637.6	10913.1
40°	17778.3	17770.2	16897.3	16016.4	15119.0	12893.2	10959.4	10258.5	10326.6	11033.0	11114.8
42.5°	20658.6	20645.0	19354.8	18015.6	17205.5	14941.6	12440.5	11333.0	11286.7	11761.3	11638.6
45°	22878.9	22876.1	21823.3	20315.0	19717.7	17292.8	14355.2	12827.8	12756.9	12945.0	12604.1
47.5°	23825.4	23841.7	23312.5	22251.5	22502.5	20473.2	16769.1	14993.4	14887.1	14810.7	14292.5
50°	23088.8	23121.7	23165.2	22958.0	24545.4	24747.3	20006.8	18045.6	17993.8	17652.9	16842.8
52.5°	20683.3	20849.6	21362.4	22019.7	25254.6	28849.6	25082.7	21837.0	21558.7	21196.0	20304.0
55°	16630.1	16812.9	17786.6	19382.1	24199.1	31544.4	32196.3	26724.9	26261.1	25178.2	23890.8
57.5°	11005.8	11289.4	12702.3	14731.7	21133.3	31978.1	39293.5	33508.2	31893.6	28928.7	27477.6
60°	6063.5	6336.2	7869.1	9707.4	15263.5	29834.3	44066.7	42340.1	39487.1	33121.0	31833.6
62.5°	3734.1	3881.3	5013.3	6723.5	9153.7	23547.1	45054.0	53438.6	50135.6	38518.8	37095.0
65°	2973.1	3035.8	3589.5	5496.1	6562.5	14006.1	41865.5	61899.6	60797.7	45054.0	41805.6
67°	2885.7	2910.3	3172.2	4718.7	6186.2	8586.3	35073.9	63277.0	64395.3	49009.2	41952.9
67.5°	2904.8	2932.2	3180.3	4503.2	6175.3	7890.9	32733.6	62734.3	64147.1	49322.7	41301.0
70°	2801.2	2885.7	3641.3	4500.5	5872.4	6557.0	19603.1	54355.1	55825.3	45828.7	35044.0
72.5°	992.8	998.3	1573.8	3641.3	6385.2	6628.0	9843.8	39847.2	40935.4	35057.5	25265.5
75°	589.1	501.8	523.7	1036.5	6101.6	6437.1	5678.9	25461.9	25868.3	20088.6	12795.1
77.5°	406.5	354.5	365.5	458.3	2324.0	6347.1	4511.5	13277.8	12844.2	7045.4	2724.8
80°	231.8	204.6	218.2	401.0	845.5	5921.6	4255.0	5384.2	4590.5	1194.6	752.8
82.5°	122.7	103.7	125.4	330.1	589.1	3690.4	4263.2	2602.1	2062.0	403.7	512.8
85°	43.6	35.5	60.0	226.3	392.8	1131.9	3952.2	2187.5	1718.3	196.3	390.0
87.5°	8.2	8.2	24.6	92.8	158.2	346.4	2337.5	1298.3	870.1	117.2	267.2
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°	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0	10313.0
2.5°	10280.2	10163.0	10004.8	9811.1	9581.9	9380.1	9230.1	9074.6	9041.9	8987.3	8979.2
5°	10212.0	10010.3	9617.4	9167.4	8687.3	8253.7	7901.7	7588.2	7449.0	7329.0	7315.4
7.5°	10111.1	9808.3	9140.1	8414.6	7664.5	6982.5	6404.3	5995.2	5618.7	5438.8	5411.5
10°	9993.8	9560.1	8602.7	7596.2	6559.8	5597.1	4737.8	4017.7	3581.3	3322.1	3289.5
12.5°	9884.6	9317.4	8054.5	6748.1	5370.6	4083.1	2978.5	2291.1	1833.0	1647.4	1625.7
15°	9832.9	9121.0	7541.7	5880.7	4126.8	2599.4	1628.4	1260.1	1110.1	1066.5	1063.7
17.5°	9827.5	8954.7	7039.9	4983.4	2891.2	1511.0	1061.0	968.2	938.3	927.4	927.4
20°	9824.7	8796.5	6538.0	4053.2	1835.7	1006.5	883.7	861.9	840.1	826.4	826.4
22.5°	9854.7	8654.7	6014.2	3103.9	1156.5	815.5	777.4	755.5	728.2	709.2	706.5
25°	9884.6	8545.5	5479.7	2209.3	837.4	709.2	671.0	641.1	602.8	578.2	575.5
27.5°	9890.1	8409.1	4907.0	1478.4	701.0	619.2	570.2	523.7	480.0	455.5	452.8
30°	9808.3	8180.0	4271.4	998.3	619.2	537.3	471.9	422.8	381.9	362.7	362.7
32.5°	9647.5	7896.2	3573.1	752.8	551.0	461.0	390.0	343.6	316.5	308.2	305.5
35°	9502.9	7590.8	2855.8	638.3	493.8	390.0	319.1	289.1	272.7	270.0	267.2
37.5°	9418.3	7345.4	2182.0	578.2	439.1	327.3	270.0	248.2	240.1	234.6	237.3
40°	9483.8	7140.7	1612.0	529.2	384.6	272.7	229.1	218.2	210.0	207.3	207.3
42.5°	9770.2	7105.3	1197.4	485.5	332.8	226.3	199.1	190.8	185.5	182.8	185.5
45°	10523.0	7323.5	930.2	444.5	280.9	190.8	169.2	166.4	163.7	163.7	163.7
47.5°	11654.9	7773.6	774.6	398.2	234.6	163.7	147.3	144.5	141.8	144.5	144.5
50°	13572.4	8597.3	692.8	351.9	193.6	139.1	125.4	125.4	125.4	125.4	128.2
52.5°	16488.2	10217.5	638.3	305.5	158.2	117.2	106.4	106.4	109.2	109.2	111.9
55°	19736.7	12366.8	589.1	259.2	133.7	98.3	87.3	90.0	92.8	95.5	95.5
57.5°	23260.8	14748.1	548.3	212.7	114.5	79.1	73.6	76.4	79.1	84.5	84.5
60°	27513.0	17325.6	488.3	166.4	95.5	62.8	57.3	62.8	70.9	76.4	79.1
62.5°	32182.7	19818.5	411.9	130.9	79.1	49.0	46.3	57.3	68.2	73.6	76.4
65°	35373.9	20601.4	316.5	106.4	60.0	35.5	38.1	51.8	65.4	73.6	73.6
67°	34081.0	18678.4	259.2	90.0	49.0	27.4	35.5	51.8	65.4	70.9	73.6
67.5°	33183.6	17925.6	248.2	87.3	46.3	27.4	35.5	51.8	65.4	73.6	73.6
70°	27000.2	13465.9	207.3	65.4	38.1	24.6	30.0	49.0	62.8	70.9	70.9
72.5°	18760.3	8302.7	185.5	46.3	32.8	21.9	27.4	46.3	60.0	68.2	70.9
75°	8919.2	3005.8	158.2	35.5	30.0	19.1	24.6	46.3	60.0	68.2	68.2
77.5°	1819.2	698.2	128.2	30.0	24.6	19.1	21.9	43.6	57.3	65.4	65.4
80°	597.3	270.0	95.5	27.4	24.6	19.1	21.9	40.9	57.3	62.8	65.4
82.5°	430.9	136.3	62.8	27.4	24.6	19.1	19.1	40.9	54.5	62.8	62.8
85°	330.1	95.5	40.9	27.4	24.6	19.1	19.1	38.1	51.8	60.0	60.0
87.5°	218.2	38.1	32.8	27.4	24.6	19.1	19.1	38.1	49.0	57.3	60.0
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)