

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: P193657

Luminaire Tested: **GAN-AF-09-LED-U-SL3-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193657  
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-SL3-8030-600-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA 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: 24442 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 290  
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

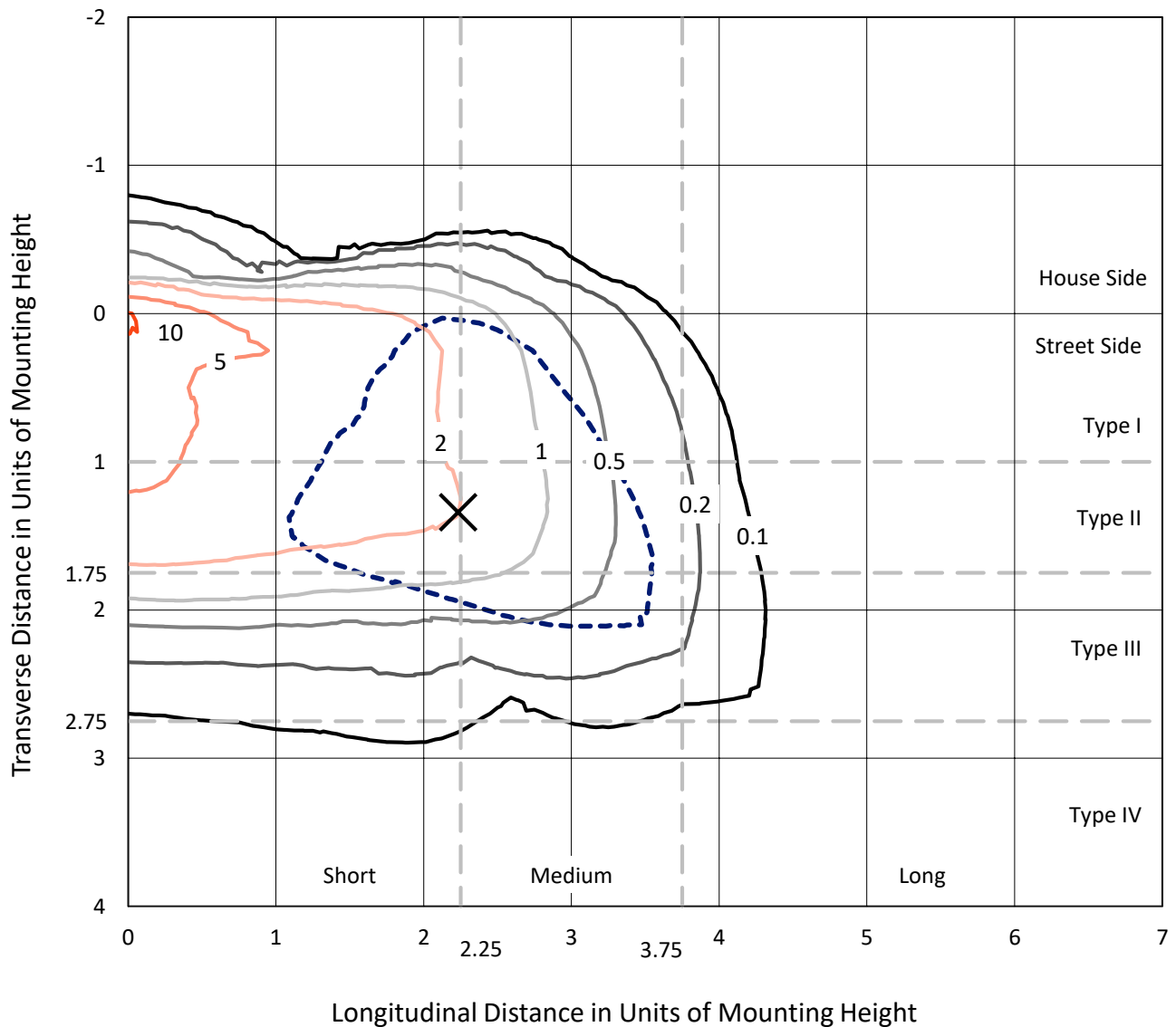


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

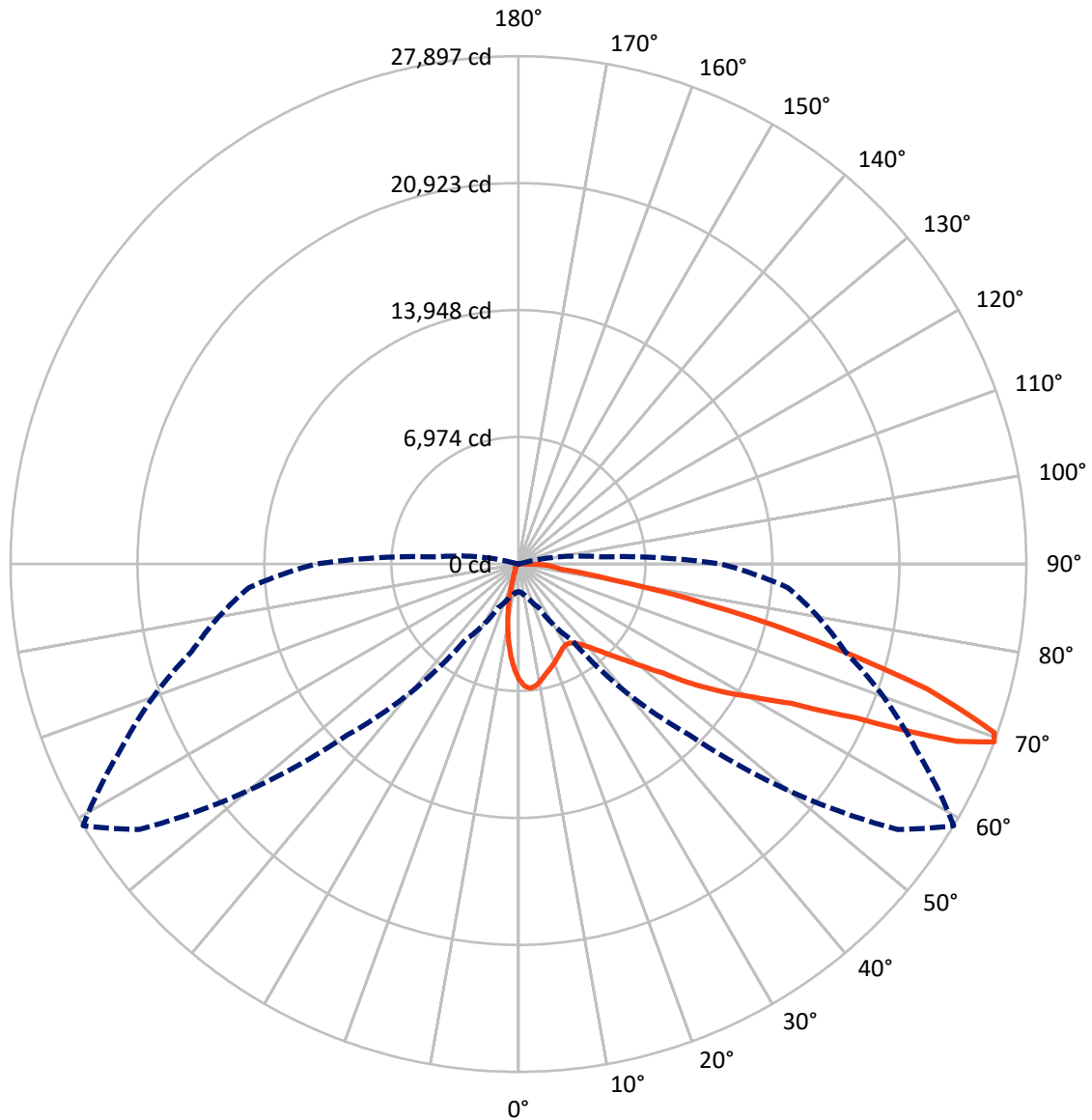


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - Non-Cutoff

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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	1990.5	0.0	1990.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	22451.5	0.0	22451.5
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	24442.0	0.0	24442.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.4	2.1
10°-20°	1067.0	4.4
20°-30°	1435.8	5.9
30°-40°	2084.7	8.5
40°-50°	3471.2	14.2
50°-60°	5415.0	22.2
60°-70°	6700.7	27.4
70°-80°	3395.8	13.9
80°-90°	355.3	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°	24442.0	100.0
0°-180°	24442.0	100.0



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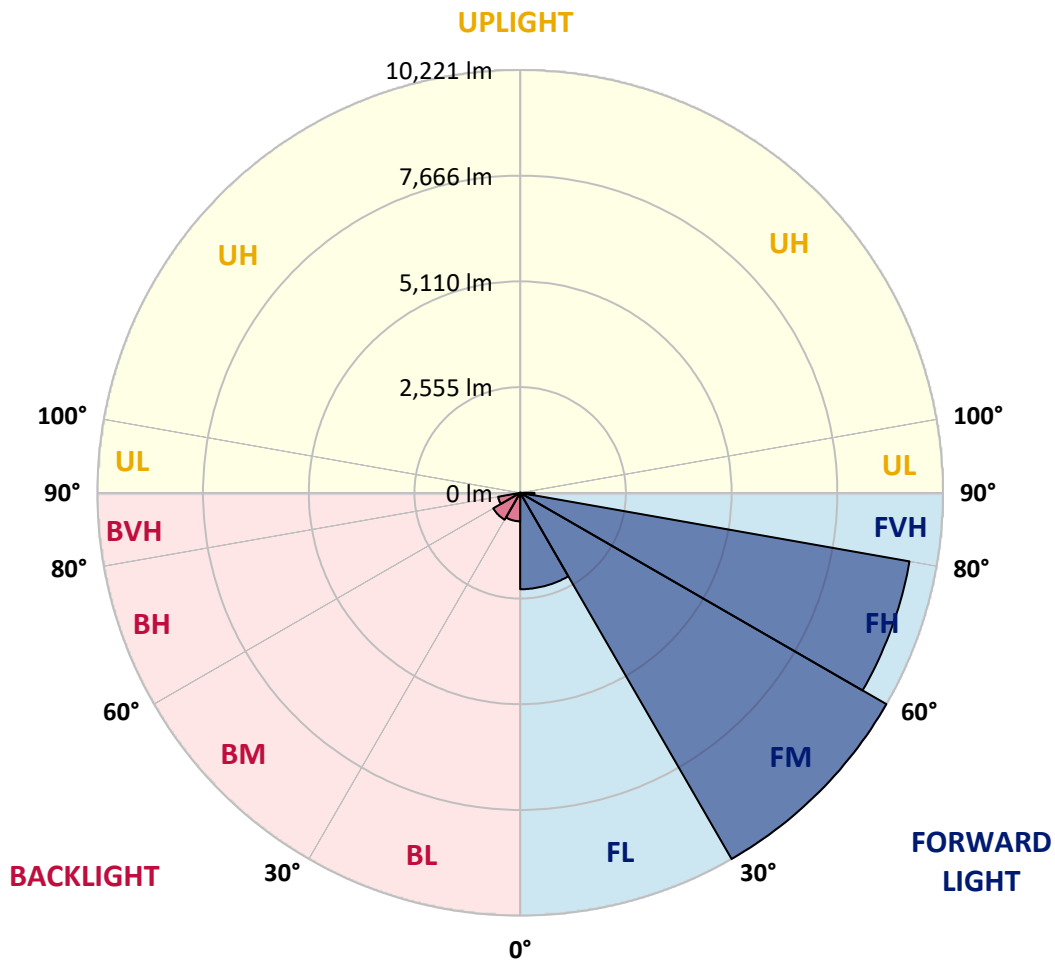
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2330.3	9.5			
FM	(30°-60°)	10220.9	41.8			
FH	(60°-80°)	9555.9	39.1			G4/12000
FVH	(80°-90°)	344.4	1.4			G3/500
BL	(0°-30°)	689.0	2.8	B2/1000		
BM	(30°-60°)	750.0	3.1	B1/1000		
BH	(60°-80°)	540.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9
2.5°	6972.8	6970.0	6939.6	6925.8	6900.9	6848.4	6766.9	6724.0	6654.9	6534.7	6373.0
5°	6909.2	6942.4	6960.4	6961.8	6979.7	6960.4	6887.1	6851.2	6755.8	6562.3	6272.1
7.5°	6478.0	6490.5	6541.6	6585.8	6671.5	6753.1	6779.3	6764.1	6707.4	6500.1	6114.5
10°	6016.4	6028.8	6089.6	6147.7	6263.8	6389.6	6522.2	6549.9	6573.4	6411.7	5962.5
12.5°	5618.3	5630.8	5693.0	5769.0	5904.4	6059.2	6265.2	6310.8	6414.4	6327.4	5840.9
15°	5275.6	5281.1	5341.9	5435.9	5597.6	5796.6	6030.2	6103.5	6262.4	6267.9	5734.4
17.5°	4983.9	4997.8	5035.1	5124.9	5301.8	5547.8	5820.1	5925.2	6111.8	6218.2	5630.8
20°	4805.6	4819.5	4818.1	4867.8	5026.8	5289.4	5610.0	5735.8	5962.5	6167.0	5538.2
22.5°	4771.1	4771.1	4735.2	4728.2	4822.2	5042.0	5391.7	5545.1	5828.4	6144.9	5473.2
25°	4894.1	4888.6	4798.7	4725.5	4729.6	4860.9	5180.2	5362.6	5715.1	6160.1	5438.7
27.5°	5153.9	5147.0	5033.7	4894.1	4782.1	4780.8	5019.9	5216.1	5625.2	6232.0	5452.5
30°	5513.3	5510.5	5387.5	5212.0	5008.8	4822.2	4964.6	5142.9	5567.2	6361.9	5484.3
32.5°	5905.8	5901.7	5809.1	5623.9	5366.8	5008.8	5022.6	5171.9	5583.8	6534.7	5561.7
35°	6321.8	6314.9	6274.8	6113.1	5829.8	5353.0	5213.4	5329.5	5688.8	6793.1	5713.7
37.5°	6772.4	6779.3	6808.3	6653.5	6356.4	5835.3	5532.6	5611.4	5900.3	7144.2	5961.1
40°	7437.2	7435.8	7445.5	7242.3	6956.2	6425.5	5979.1	6003.9	6254.1	7610.0	6337.0
42.5°	8643.8	8559.5	8303.8	7889.2	7601.7	7100.0	6541.6	6515.3	6686.7	8186.3	6863.6
45°	10265.0	10085.4	9421.9	8627.2	8259.6	7860.1	7234.0	7149.7	7258.9	8878.8	7513.2
47.5°	11659.6	11473.0	10534.5	9395.7	8957.5	8581.6	8045.3	7893.3	7929.2	9654.1	8337.0
50°	12133.7	12042.4	11222.8	10064.6	9633.4	9489.7	8986.6	8801.4	8750.2	10551.1	9292.0
52.5°	11969.2	11962.3	11416.3	10498.6	10252.6	10429.5	10171.0	9956.8	9768.8	11496.5	10263.6
55°	11705.2	11739.8	11495.1	10878.7	10870.4	11287.8	11790.9	11612.6	11068.0	12523.4	11101.2
57.5°	10976.8	11124.7	11450.9	11597.4	11937.4	12364.5	13139.8	13244.9	12600.8	13309.8	11796.4
60°	8906.4	9231.2	10298.2	11701.1	13312.6	14376.8	14768.0	14857.8	13858.6	13963.6	12734.9
62.5°	6321.8	6653.5	8006.6	10379.7	13333.3	17020.9	17193.6	16841.2	15243.4	14932.5	14353.4
65°	3355.8	3611.5	4717.2	7492.5	11560.1	17634.5	21435.4	20384.9	17687.0	16838.4	16444.5
67.5°	1716.6	1794.0	2233.5	3666.8	7947.2	15663.6	25237.6	25977.0	21898.4	18729.2	16343.6
69°	1519.0	1564.6	1856.2	2650.9	5089.0	13267.0	25422.8	27896.8	24102.9	18571.6	14852.3
70°	1470.6	1510.7	1776.0	2399.4	3977.8	11126.1	24713.8	27728.2	24666.8	17971.8	13738.3
72.5°	1248.1	1282.6	1581.1	2120.2	3232.8	5523.0	20075.3	23496.1	22134.7	14971.2	9944.4
75°	834.8	948.1	1517.6	1987.5	3007.5	3137.4	13235.2	16979.4	15772.8	10097.8	5180.2
77.5°	200.4	215.6	428.5	1581.1	2750.4	2761.5	6807.0	10555.3	8609.2	3599.0	1224.6
80°	107.8	103.7	120.2	313.7	2561.1	2591.5	3064.2	5123.5	3073.8	597.1	403.6
82.5°	76.0	71.9	77.4	131.3	805.8	2360.7	2216.9	2319.2	1274.3	229.4	181.1
85°	27.6	26.3	42.8	118.9	252.9	1357.2	2277.7	1912.9	1032.4	105.0	132.7
87.5°	9.7	8.3	16.6	65.0	77.4	577.7	1405.6	1445.7	406.3	63.6	62.2
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°	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9	6361.9
2.5°	6305.2	6219.6	6062.0	5900.3	5751.0	5571.3	5481.5	5393.0	5355.7	5341.9	5276.9
5°	6122.8	5977.7	5643.2	5307.4	4997.8	4668.8	4451.8	4277.7	4175.4	4125.6	4046.9
7.5°	5889.2	5651.5	5144.3	4626.0	4143.6	3668.2	3315.7	3044.8	2858.2	2768.4	2686.8
10°	5662.6	5346.1	4624.6	3918.3	3263.2	2632.9	2146.4	1794.0	1568.7	1465.1	1398.7
12.5°	5459.4	5048.9	4122.9	3228.6	2406.3	1668.2	1173.4	892.9	753.3	704.9	681.4
15°	5278.3	4775.2	3648.8	2573.5	1629.5	953.7	641.3	545.9	523.8	523.8	521.1
17.5°	5106.9	4507.1	3191.3	1958.5	1022.8	583.3	487.9	475.5	475.5	481.0	481.0
20°	4942.5	4251.4	2749.0	1405.6	644.1	463.0	440.9	438.1	440.9	447.8	447.8
22.5°	4801.5	4019.2	2335.8	964.7	478.2	417.4	406.3	402.2	403.6	407.7	410.5
25°	4696.5	3823.0	1946.0	653.7	411.9	380.1	367.6	360.7	355.2	355.2	358.0
27.5°	4630.1	3657.1	1568.7	475.5	370.4	345.5	326.2	315.1	302.7	295.8	298.5
30°	4581.7	3499.5	1214.9	388.4	331.7	306.8	282.0	264.0	246.0	237.7	240.5
32.5°	4563.8	3372.4	908.1	342.8	297.2	269.5	239.1	215.6	196.3	189.4	190.7
35°	4612.1	3271.5	664.8	309.6	269.5	235.0	200.4	174.1	158.9	154.8	156.2
37.5°	4739.3	3217.6	497.6	282.0	244.6	205.9	167.2	142.4	132.7	132.7	134.1
40°	4979.8	3216.2	399.4	262.6	222.5	178.3	138.2	120.2	114.7	117.5	118.9
42.5°	5330.9	3289.5	348.3	244.6	203.2	152.0	114.7	102.3	100.9	103.7	105.0
45°	5810.4	3423.5	320.7	229.4	182.4	127.2	96.7	88.5	88.5	92.6	94.0
47.5°	6397.8	3619.8	297.2	214.2	161.7	106.4	82.9	77.4	78.8	82.9	84.3
50°	7105.5	3867.2	273.7	197.6	146.5	88.5	71.9	67.7	69.1	74.6	76.0
52.5°	7911.3	4200.3	254.3	182.4	127.2	73.3	60.8	58.0	60.8	66.3	67.7
55°	8602.3	4498.8	230.8	170.0	102.3	60.8	49.8	49.8	52.5	59.4	60.8
57.5°	9267.1	4811.2	210.1	146.5	80.2	48.4	41.5	42.8	47.0	53.9	55.3
60°	10242.9	5340.5	185.2	123.0	60.8	38.7	34.6	35.9	41.5	48.4	49.8
62.5°	11900.1	6146.3	160.3	102.3	47.0	30.4	27.6	30.4	37.3	45.6	47.0
65°	13395.5	6473.9	131.3	85.7	35.9	23.5	23.5	27.6	35.9	44.2	45.6
67.5°	12562.1	5449.7	102.3	67.7	27.6	18.0	19.3	26.3	34.6	44.2	45.6
69°	11109.5	4456.0	87.1	53.9	23.5	16.6	18.0	26.3	34.6	42.8	44.2
70°	9977.5	3762.1	77.4	45.6	20.7	16.6	18.0	24.9	34.6	42.8	44.2
72.5°	6682.6	2031.7	62.2	33.2	19.3	15.2	15.2	24.9	33.2	41.5	42.8
75°	2872.1	561.1	49.8	23.5	16.6	13.8	13.8	23.5	31.8	40.1	42.8
77.5°	525.2	142.4	40.1	20.7	16.6	13.8	12.4	22.1	30.4	38.7	40.1
80°	208.7	70.5	31.8	18.0	15.2	12.4	11.1	20.7	29.0	37.3	38.7
82.5°	125.8	40.1	26.3	16.6	15.2	11.1	9.7	18.0	27.6	35.9	37.3
85°	102.3	27.6	20.7	16.6	13.8	11.1	8.3	16.6	24.9	34.6	35.9
87.5°	49.8	19.3	19.3	15.2	13.8	11.1	8.3	15.2	23.5	33.2	34.6
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)