

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: P383598

Luminaire Tested: **GAN-SA8D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42214 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

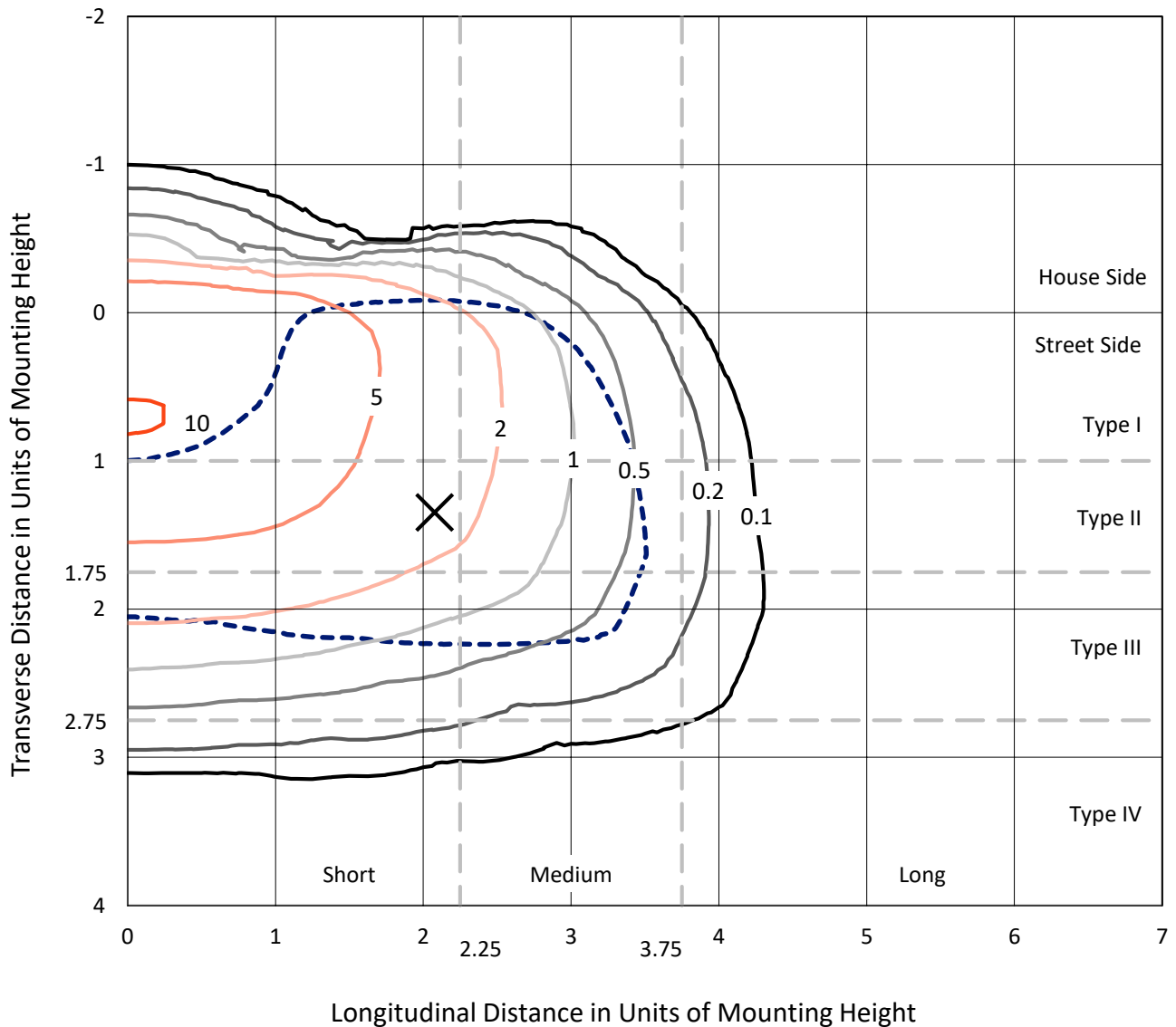
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

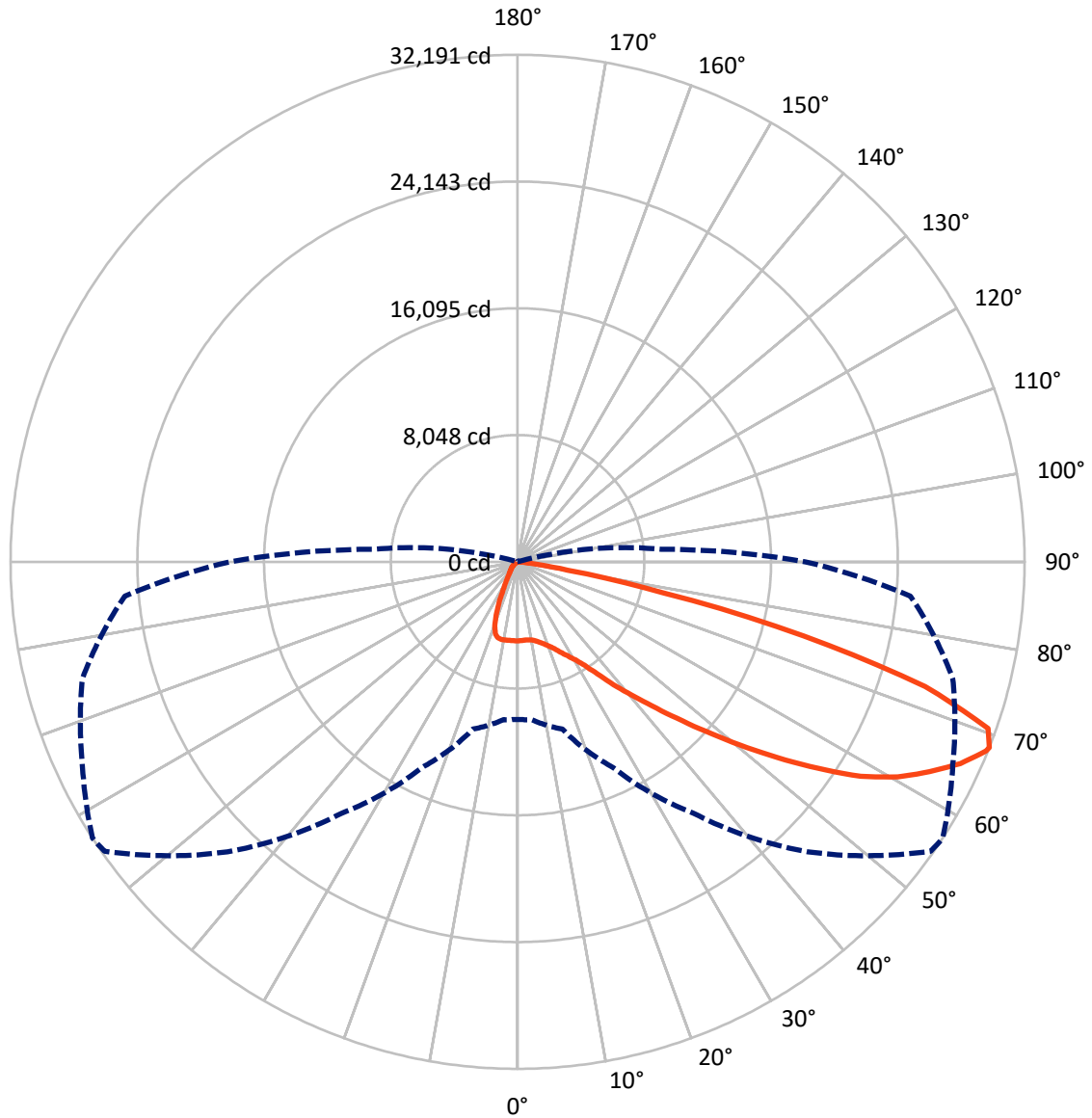
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4629.0	0.0	4629.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	37585.0	0.0	37585.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	42214.0	0.0	42214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	1.1
10°-20°	1300.8	3.1
20°-30°	2244.1	5.3
30°-40°	3873.2	9.2
40°-50°	6625.1	15.7
50°-60°	10599.6	25.1
60°-70°	12246.7	29.0
70°-80°	4679.6	11.1
80°-90°	175.4	0.4
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°	42214.0	100.0
0°-180°	42214.0	100.0

Coefficient of Utilization



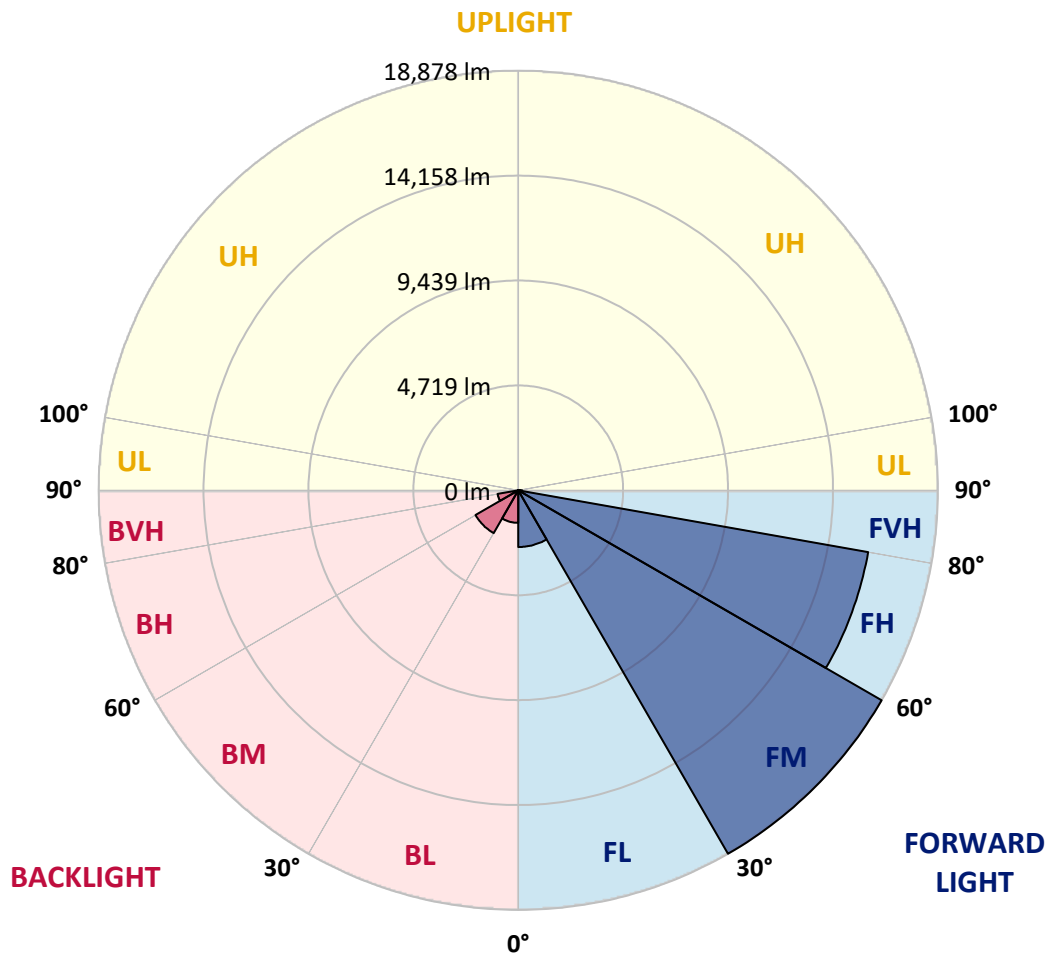
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.4	6.0			
FM (30°-60°)	18877.8	44.7			
FH (60°-80°)	15983.6	37.9			G5
FVH (80°-90°)	172.2	0.4			G2/225
BL (0°-30°)	1462.9	3.5	B3/2500		
BM (30°-60°)	2220.2	5.3	B2/2500		
BH (60°-80°)	942.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
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°	57°	65°	75°	85°
0°	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1
2.5°	4898.4	4920.3	4936.3	4946.2	4958.3	4984.2	4992.2	5004.2	5010.1	5010.1	5024.1
5°	4704.8	4728.7	4762.6	4790.6	4846.5	4918.3	4970.3	4990.2	5026.1	5058.0	5076.0
7.5°	4525.1	4553.0	4593.0	4658.9	4754.6	4870.4	4978.2	5006.1	5076.0	5143.9	5177.8
10°	4409.3	4431.3	4483.2	4577.0	4702.7	4864.4	5016.1	5050.1	5169.8	5283.6	5347.5
12.5°	4369.4	4389.4	4443.3	4549.0	4704.8	4894.4	5103.9	5153.9	5329.5	5495.2	5585.0
15°	4427.3	4431.3	4489.1	4589.0	4742.7	4968.2	5249.6	5309.5	5531.2	5746.7	5858.5
17.5°	4650.8	4632.9	4662.9	4706.7	4828.5	5066.0	5403.3	5493.2	5788.6	6042.1	6147.9
20°	5209.8	5209.8	5141.9	5022.2	5024.1	5217.8	5611.0	5712.8	6074.1	6367.5	6463.3
22.5°	6165.9	6147.9	6012.2	5718.8	5449.3	5479.3	5864.5	5996.2	6417.3	6730.8	6762.7
25°	7315.6	7293.6	7084.0	6670.9	6203.8	5902.4	6207.8	6359.5	6826.6	7104.1	7038.1
27.5°	8533.3	8515.3	8307.6	7794.6	7130.0	6577.1	6617.0	6760.7	7243.7	7517.2	7307.6
30°	9712.9	9718.9	9513.3	8986.4	8233.9	7437.4	7135.9	7219.8	7648.9	7926.4	7627.0
32.5°	10834.7	10842.7	10665.0	10076.2	9373.6	8437.4	7854.5	7832.6	8120.0	8393.5	8050.2
35°	11834.8	11854.7	11732.9	11275.8	10531.3	9551.3	8786.7	8734.8	8788.7	9098.1	8698.9
37.5°	12798.8	12810.8	12719.0	12333.8	11711.0	10774.8	9964.4	9890.5	9774.8	10012.3	9555.3
40°	13854.7	13824.8	13719.0	13369.8	12834.8	12126.1	11229.9	11102.2	10900.6	11112.2	10681.0
42.5°	14836.9	14802.9	14820.8	14425.7	13974.5	13515.5	12705.0	12485.4	12367.7	12611.2	12062.2
45°	16064.4	16046.5	16106.4	15763.0	15397.7	15064.3	14395.7	14156.2	14104.3	14389.7	13733.0
47.5°	17276.0	17320.0	17505.5	17359.9	17212.1	16918.8	16186.2	16078.4	16110.4	16455.6	15495.5
50°	18286.1	18338.0	18847.0	19014.7	19228.2	19056.6	18322.0	18256.1	18381.9	18693.3	17391.8
52.5°	19016.6	19122.4	19755.1	20527.7	21306.1	21421.9	20689.3	20629.4	20799.1	20847.0	18856.9
55°	19523.7	19617.5	20334.0	21747.3	23332.1	23831.1	23376.1	23144.5	23112.5	22639.5	20397.9
57.5°	19613.5	19603.5	20633.4	22535.7	24921.0	26208.4	25921.1	25693.5	25038.8	24296.3	22164.4
60°	19106.4	19164.4	20360.0	22809.1	25919.0	28007.0	28028.9	27733.5	26713.4	25907.1	23877.1
62.5°	17545.5	17781.0	18988.7	22092.6	25907.1	28731.5	29573.8	29348.3	28128.7	27226.4	25613.6
65°	15014.5	15098.3	16250.0	19637.4	24156.5	28428.1	30965.1	30881.3	29404.2	28508.0	26505.9
67.5°	10964.4	10782.8	11992.5	15463.6	20451.8	26659.6	31963.2	32069.0	30388.3	28771.4	25555.8
68°	10006.3	10060.2	11002.3	14431.6	19481.7	26034.8	32029.0	32190.7	30486.0	28599.7	25036.7
70°	5964.2	6068.1	6908.5	9936.4	14820.8	22499.8	31318.4	31687.7	29903.2	26829.2	21655.4
72.5°	1523.0	1646.8	2441.2	4447.3	8465.3	15852.8	26438.0	27062.8	25963.0	21765.2	14619.2
75°	626.7	658.7	872.3	1465.1	3153.8	7142.0	17425.7	18763.1	17998.6	13030.4	6607.0
77.5°	433.2	455.1	560.9	812.4	1365.3	2421.3	8543.2	9509.3	8567.2	4447.3	1441.2
80°	311.4	329.4	401.2	540.9	784.5	864.3	2784.5	3219.7	2557.0	976.1	357.3
82.5°	185.7	199.6	299.4	385.3	477.0	413.1	692.6	786.4	740.6	485.1	159.7
85°	91.9	107.8	201.6	275.5	257.5	173.6	211.6	235.5	291.4	295.4	85.8
87.5°	6.0	12.0	117.7	165.6	71.8	40.0	61.9	75.8	103.8	145.7	36.0
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°	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1	5016.1
2.5°	5030.1	5032.1	5018.2	5012.2	5016.1	4992.2	4982.2	4986.2	4986.2	4992.2	4982.2
5°	5080.0	5080.0	5056.1	5024.1	5006.1	4960.2	4930.3	4922.3	4916.3	4912.3	4904.3
7.5°	5187.8	5175.9	5133.9	5064.1	5004.2	4904.3	4828.5	4788.6	4768.6	4760.7	4754.6
10°	5361.4	5339.5	5269.7	5139.9	5002.1	4824.5	4658.9	4541.1	4443.3	4403.3	4379.4
12.5°	5595.0	5563.0	5445.3	5229.7	4988.2	4660.8	4301.5	3956.2	3634.9	3503.1	3437.2
15°	5864.5	5818.5	5632.9	5305.5	4906.4	4291.5	3511.1	2906.2	2461.1	2293.5	2221.6
17.5°	6138.0	6078.1	5796.6	5353.5	4660.8	3527.0	2463.2	1860.3	1563.0	1483.1	1455.2
20°	6413.4	6325.6	5938.3	5317.6	4105.9	2543.0	1624.8	1359.3	1273.5	1249.6	1241.6
22.5°	6674.9	6539.2	6066.1	5177.8	3251.6	1706.7	1285.4	1201.6	1173.7	1159.7	1155.8
25°	6902.4	6712.8	6177.8	4746.7	2301.5	1289.4	1157.7	1129.8	1093.8	1067.9	1069.9
27.5°	7116.0	6886.5	6245.7	4036.0	1535.0	1101.8	1071.9	1033.9	968.1	930.2	930.2
30°	7373.5	7118.0	6295.6	3105.9	1129.8	974.1	950.1	892.2	802.4	752.5	752.5
32.5°	7760.7	7469.3	6263.7	2179.7	936.2	856.3	800.4	720.6	622.7	574.9	572.9
35°	8353.6	8012.2	6036.1	1429.2	826.4	744.5	654.7	556.9	471.1	431.1	429.2
37.5°	9152.0	8738.8	5525.1	1022.0	740.6	640.7	532.9	425.2	361.3	335.4	333.3
40°	10188.0	9583.2	4794.6	828.3	660.7	540.9	411.2	329.4	285.4	265.5	267.4
42.5°	11431.5	10487.4	3918.3	714.6	582.9	445.1	321.4	259.5	231.6	217.6	213.6
45°	12812.8	11379.6	3000.1	636.7	505.0	359.3	251.5	205.6	183.6	175.7	175.7
47.5°	14331.9	12247.9	2195.7	568.9	421.2	277.4	201.6	167.7	149.7	143.7	141.7
50°	15711.1	12850.7	1582.9	497.0	345.3	219.6	163.7	139.7	127.7	119.8	119.8
52.5°	16860.8	13040.4	1165.7	419.2	279.5	175.7	135.7	119.8	107.8	101.8	101.8
55°	17872.9	12962.5	866.3	345.3	225.5	143.7	115.8	101.8	91.9	85.8	85.8
57.5°	18843.0	12711.0	646.8	281.4	181.7	115.8	97.8	85.8	75.8	71.8	71.8
60°	19635.4	12291.9	481.1	227.6	145.7	93.8	81.9	69.9	61.9	55.9	55.9
62.5°	20278.1	11828.7	353.3	187.6	115.8	73.9	63.9	57.8	45.9	40.0	40.0
65°	20282.1	11060.3	265.5	155.7	89.8	57.8	47.9	45.9	29.9	23.9	22.0
67.5°	18815.0	9535.2	203.6	133.8	69.9	43.9	36.0	37.9	15.9	10.0	8.0
68°	18282.1	9148.0	191.6	131.7	65.9	41.9	33.9	37.9	14.0	8.0	6.0
70°	15413.7	7277.7	153.7	127.7	57.8	32.0	27.9	37.9	12.0	6.0	4.0
72.5°	9858.7	4223.7	113.7	101.8	43.9	23.9	18.0	33.9	12.0	4.0	2.0
75°	4195.8	1309.4	77.9	71.8	26.0	18.0	12.0	22.0	8.0	2.0	0.0
77.5°	884.2	295.4	45.9	43.9	18.0	12.0	8.0	6.0	2.0	0.0	0.0
80°	227.6	85.8	23.9	22.0	10.0	6.0	4.0	0.0	0.0	0.0	0.0
82.5°	71.8	33.9	14.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.0	19.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)