

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: P321592

Luminaire Tested: **GAN-SA8A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28726 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

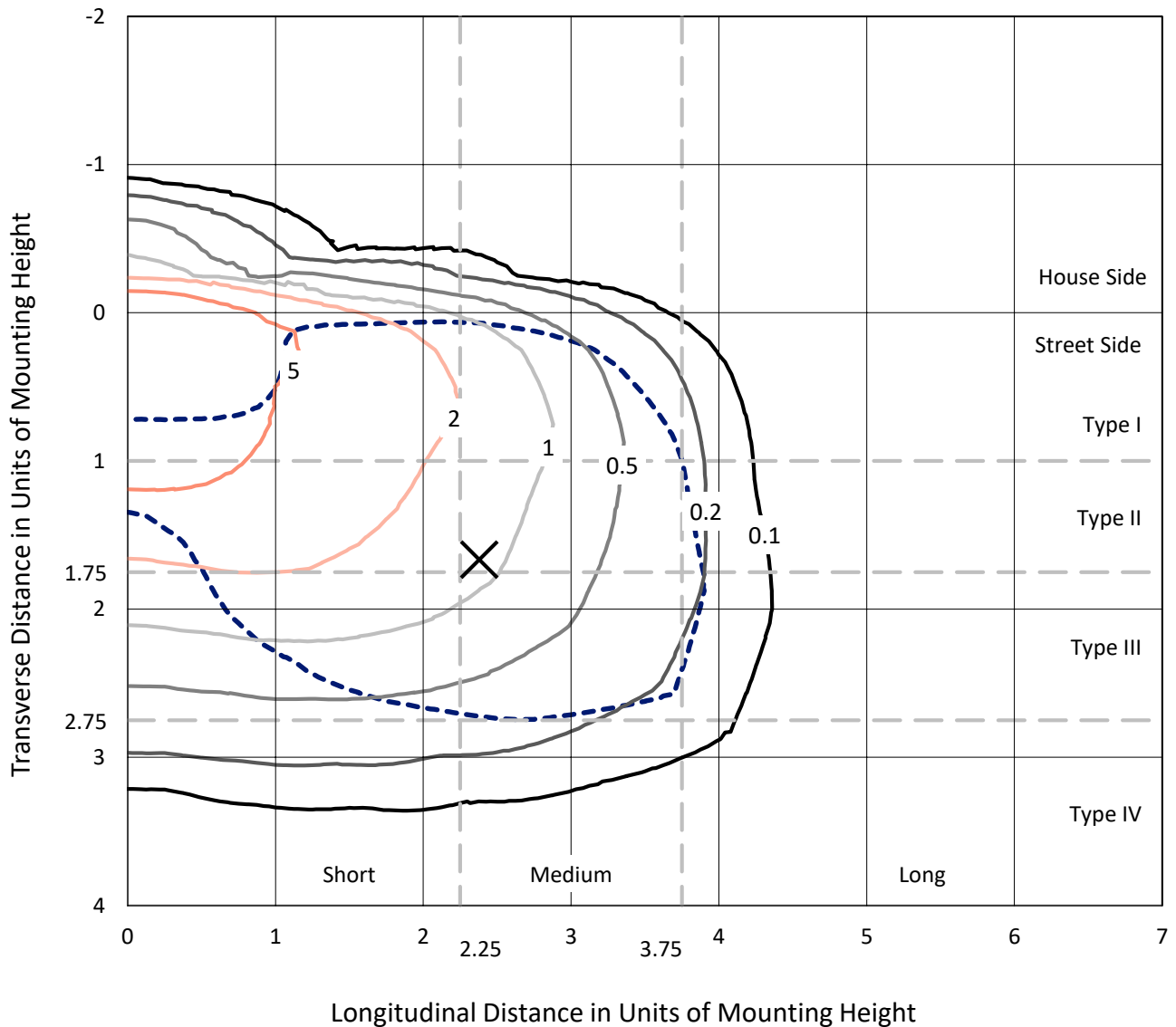
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321592
 CATALOG NUMBER: GAN-SA8A-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

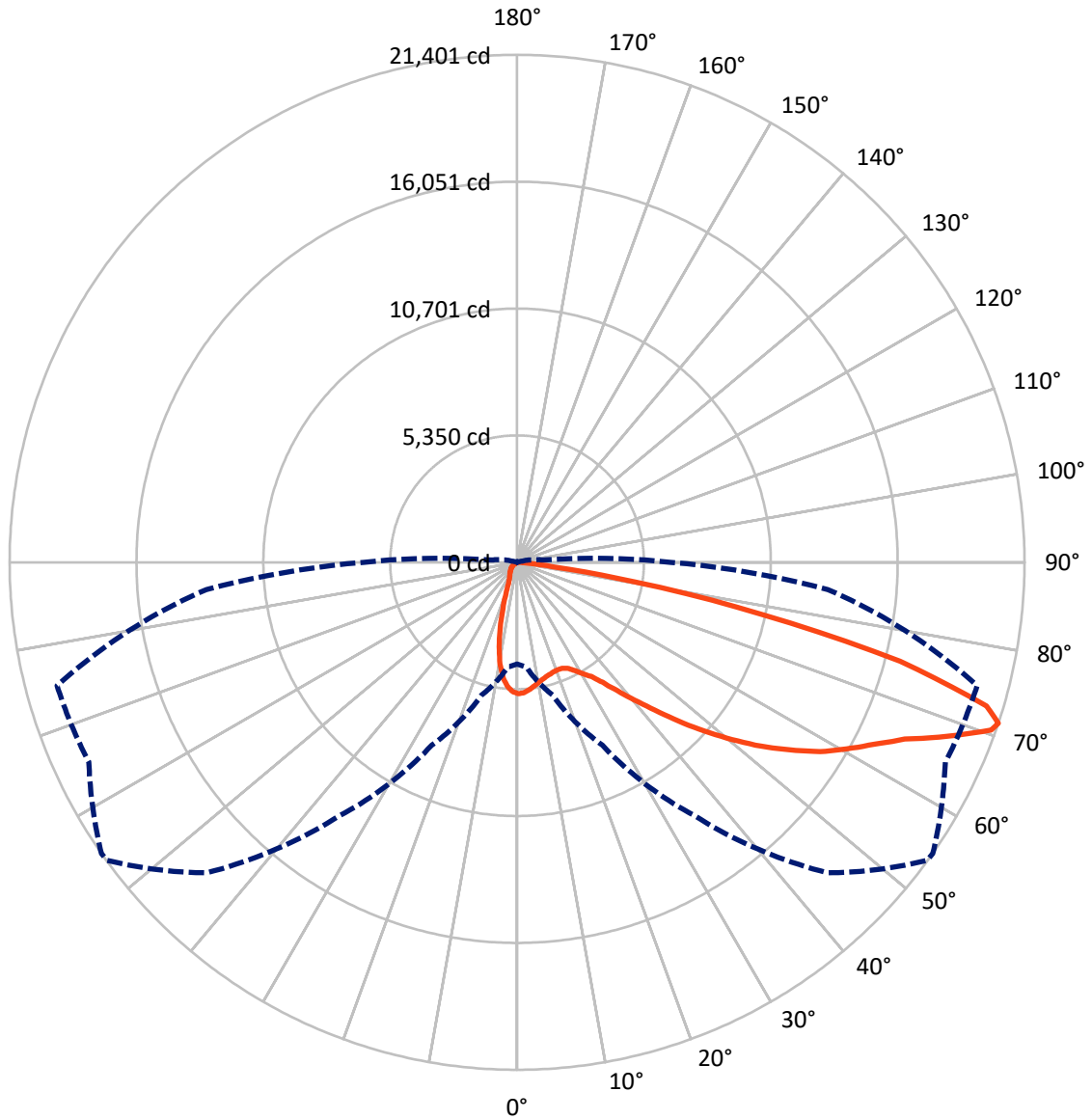
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P321592
CATALOG NUMBER: GAN-SA8A-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2274.3	0.0	2274.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26451.7	0.0	26451.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	28726.0	0.0	28726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.4	1.6
10°-20°	1066.4	3.7
20°-30°	1713.7	6.0
30°-40°	2911.6	10.1
40°-50°	4519.2	15.7
50°-60°	6076.0	21.2
60°-70°	7433.0	25.9
70°-80°	4345.9	15.1
80°-90°	187.9	0.7
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°	28726.0	100.0
0°-180°	28726.0	100.0

Coefficient of Utilization



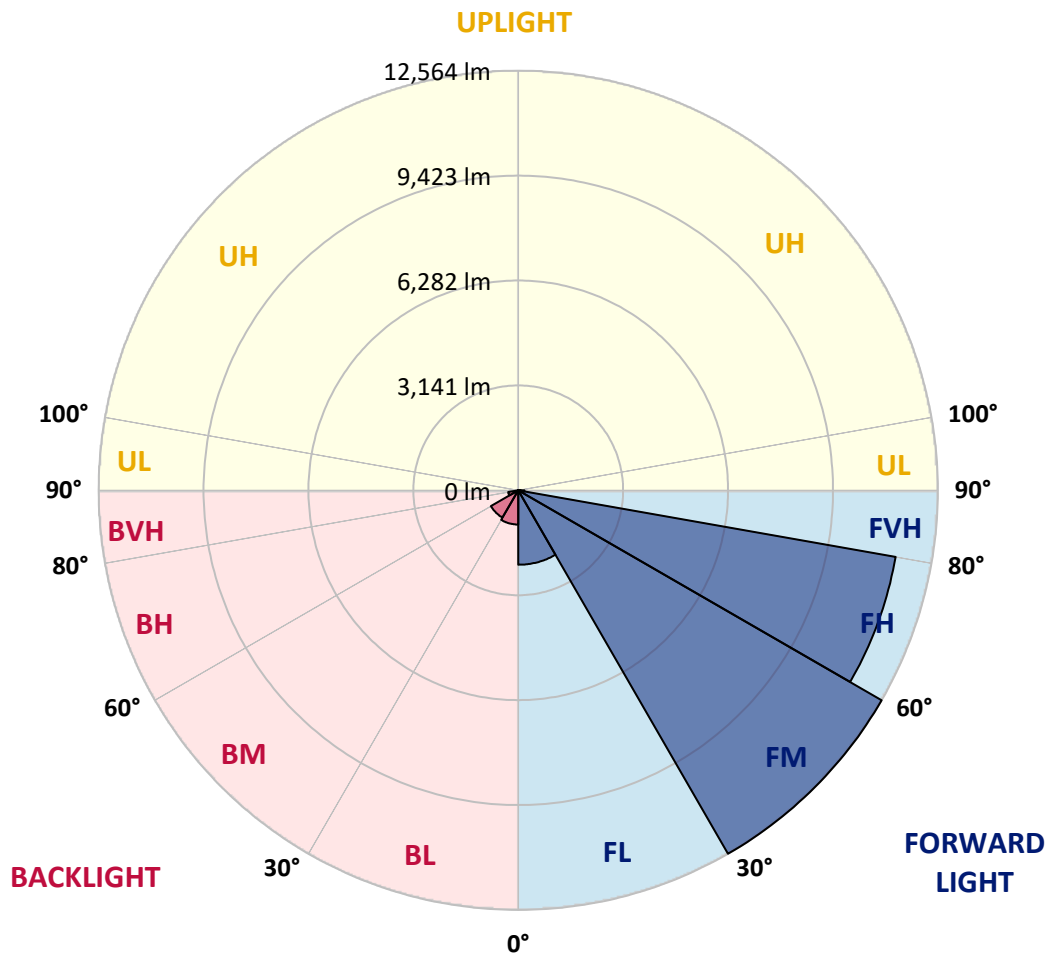
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.7	7.8			
FM (30°-60°)	12563.9	43.7			
FH (60°-80°)	11474.1	39.9			G4/12000
FVH (80°-90°)	184.9	0.6			G2/225
BL (0°-30°)	1023.7	3.6	B3/2500		
BM (30°-60°)	943.0	3.3	B1/1000		
BH (60°-80°)	304.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4

Type III Medium





REPORT NUMBER: P321592

CATALOG NUMBER: GAN-SA8A-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9
2.5°	5377.4	5383.8	5407.1	5417.4	5441.9	5483.2	5503.8	5505.1	5538.6	5551.5	5561.8
5°	4996.9	5035.6	5074.3	5115.6	5190.4	5289.7	5387.7	5396.7	5505.1	5585.1	5627.6
7.5°	4669.3	4704.1	4750.5	4816.3	4922.1	5078.1	5242.0	5261.3	5466.4	5648.3	5743.7
10°	4332.6	4361.0	4428.1	4524.8	4670.6	4879.5	5100.1	5132.3	5431.6	5733.4	5901.1
12.5°	3972.7	3989.5	4070.8	4210.1	4424.2	4689.9	4980.1	5022.7	5409.6	5831.4	6086.8
15°	3699.3	3707.0	3784.4	3928.9	4174.0	4519.6	4887.2	4938.8	5414.8	5948.8	6289.3
17.5°	3629.6	3633.5	3674.8	3774.1	3990.8	4367.4	4813.7	4876.9	5430.3	6063.6	6493.1
20°	3912.1	3885.0	3842.5	3827.0	3919.9	4275.9	4769.9	4840.8	5450.9	6165.5	6676.3
22.5°	4687.3	4607.3	4430.6	4194.6	4051.4	4282.3	4781.5	4852.4	5516.7	6290.6	6887.8
25°	5837.9	5726.9	5426.4	4962.1	4515.8	4468.0	4878.2	4950.5	5644.4	6440.2	7090.3
27.5°	7147.1	7037.4	6669.8	6006.8	5245.8	4835.7	5100.1	5167.1	5834.0	6573.1	7245.1
30°	8400.8	8369.8	7936.5	7183.2	6164.2	5431.6	5386.4	5443.2	5974.6	6653.1	7367.6
32.5°	9463.6	9414.6	9066.4	8333.7	7215.4	6147.4	5723.1	5739.8	6080.4	6756.2	7527.6
35°	10449.1	10388.5	10082.8	9390.1	8293.7	7022.0	6241.6	6217.1	6311.2	6963.9	7759.7
37.5°	11309.4	11364.9	11025.7	10366.5	9261.1	7931.3	6940.7	6867.2	6672.4	7301.8	8096.4
40°	12029.2	12029.2	11852.4	11303.0	10305.9	8871.6	7731.4	7634.6	7215.4	7822.9	8523.3
42.5°	12288.4	12343.9	12409.7	12098.8	11241.1	9849.3	8612.3	8511.7	7980.3	8562.0	9062.5
45°	12303.9	12391.6	12728.3	12727.0	12085.9	10820.6	9605.5	9557.8	8960.6	9511.4	9730.6
47.5°	12085.9	12195.5	12750.2	13064.9	12755.3	11724.8	10691.6	10632.2	10112.4	10674.8	10429.7
50°	11749.3	11870.5	12515.4	13197.8	13210.7	12511.6	11835.7	11746.7	11380.4	12004.6	11152.1
52.5°	11146.9	11381.6	12305.2	13228.7	13509.9	13191.3	12924.3	12885.6	12799.2	13285.5	11727.3
55°	9858.3	10118.9	11777.6	13239.0	13787.2	13793.7	13944.6	13954.9	14129.0	14482.5	12155.6
57.5°	9249.5	9396.6	10856.7	13288.1	14198.7	14477.3	14984.2	15064.2	15333.8	15618.8	12644.4
60°	8866.4	9040.6	10402.7	13221.0	14844.9	15373.7	15947.7	15974.8	16263.7	16791.3	13306.1
62.5°	8560.7	8732.3	10116.3	12963.0	15571.1	16452.1	16889.3	16891.9	17108.6	18188.2	14058.1
65°	7806.2	7950.6	9537.2	12672.8	16050.9	17518.8	17983.1	17966.3	18143.1	19661.2	14931.3
67.5°	6715.0	6825.9	8354.4	11572.5	15870.3	18488.7	19634.1	19578.7	19364.5	20934.3	15274.4
70°	5191.7	5231.6	6584.7	9644.2	14178.0	18861.5	21229.7	21201.3	20113.9	20706.0	14016.8
71°	4291.3	4422.9	5803.0	8511.7	13044.3	18517.1	21384.4	21401.2	19925.6	20084.3	13151.3
72.5°	2492.0	2604.2	4206.2	6537.0	11074.7	17080.2	20582.2	20703.4	19045.9	18268.2	11233.3
75°	534.0	571.4	1559.4	3164.0	6092.0	11971.1	16245.7	16677.8	15523.4	12427.7	6770.4
77.5°	371.5	401.1	668.1	1435.6	2013.5	5915.3	10091.8	10579.4	9274.0	4670.6	2167.0
80°	294.1	327.6	521.1	709.4	544.3	1907.7	4727.3	5025.3	3093.1	1042.2	365.0
82.5°	163.8	194.8	406.3	383.1	209.0	362.4	1323.4	1496.2	619.1	210.2	86.4
85°	47.7	58.0	261.8	278.6	89.0	69.7	225.7	279.9	117.4	55.5	38.7
87.5°	0.0	0.0	126.4	107.1	25.8	10.3	20.6	23.2	23.2	23.2	25.8
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°	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9	5539.9
2.5°	5561.8	5570.9	5538.6	5496.1	5450.9	5395.4	5337.4	5292.3	5291.0	5269.0	5247.1
5°	5630.2	5625.0	5536.0	5400.6	5240.7	5074.3	4915.6	4736.3	4677.0	4603.5	4579.0
7.5°	5756.6	5720.5	5532.2	5235.5	4884.7	4536.4	4176.5	3814.1	3659.3	3520.0	3495.5
10°	5915.3	5846.9	5507.7	4987.9	4344.2	3701.9	3158.8	2666.1	2449.4	2283.0	2275.3
12.5°	6080.4	5975.9	5439.3	4613.8	3636.1	2733.2	2107.6	1622.6	1442.1	1326.0	1336.3
15°	6253.2	6097.1	5292.3	4109.5	2829.9	1854.8	1295.0	1010.0	937.7	908.1	915.8
17.5°	6429.9	6181.0	5087.2	3501.9	2034.1	1197.0	896.4	816.5	816.5	822.9	825.5
20°	6583.4	6226.1	4785.3	2820.9	1378.9	871.9	784.2	772.6	779.1	789.4	790.7
22.5°	6735.6	6228.7	4391.9	2130.8	964.8	763.6	746.8	741.7	745.5	757.1	758.4
25°	6859.4	6197.7	3899.2	1515.6	770.0	719.7	712.0	709.4	712.0	726.2	726.2
27.5°	6909.7	6085.5	3298.2	1065.4	690.1	670.7	668.1	670.7	674.6	684.9	686.2
30°	6914.9	5889.5	2642.9	771.3	625.6	604.9	610.1	619.1	615.3	612.7	615.3
32.5°	6927.8	5662.4	2004.4	634.6	571.4	539.2	532.7	532.7	517.2	508.2	503.0
35°	6970.4	5395.4	1453.7	570.1	515.9	478.5	454.0	425.7	396.0	380.5	376.6
37.5°	7037.4	5115.6	1040.9	527.5	466.9	424.4	377.9	327.6	285.1	273.4	273.4
40°	7160.0	4826.6	770.0	494.0	428.2	375.3	305.7	239.9	201.2	194.8	194.8
42.5°	7353.4	4522.2	614.0	464.3	394.7	325.0	233.5	174.1	145.8	141.9	140.6
45°	7554.7	4186.9	536.6	436.0	358.6	267.0	172.8	129.0	112.2	108.3	108.3
47.5°	7755.9	3829.6	499.2	408.9	323.8	207.7	129.0	101.9	94.2	94.2	95.4
50°	7926.1	3456.8	472.1	379.2	278.6	157.4	101.9	86.4	83.8	89.0	90.3
52.5°	7968.7	3090.5	438.5	341.8	223.1	120.0	83.8	76.1	76.1	76.1	76.1
55°	7942.9	2806.7	394.7	295.4	165.1	95.4	72.2	67.1	65.8	65.8	65.8
57.5°	8030.6	2639.0	316.0	229.6	118.7	77.4	63.2	59.3	56.8	55.5	55.5
60°	8207.3	2529.4	225.7	165.1	89.0	64.5	54.2	50.3	46.4	43.9	43.9
62.5°	8442.1	2433.9	167.7	122.5	68.4	51.6	45.1	41.3	36.1	33.5	33.5
65°	8622.7	2263.7	127.7	91.6	51.6	41.3	34.8	33.5	25.8	23.2	21.9
67.5°	8346.6	1889.6	103.2	67.1	38.7	32.2	27.1	25.8	15.5	12.9	12.9
70°	7158.7	1315.6	82.6	49.0	28.4	25.8	21.9	16.8	11.6	10.3	10.3
71°	6491.8	1099.0	74.8	41.3	24.5	24.5	20.6	14.2	10.3	9.0	9.0
72.5°	5392.9	780.4	63.2	32.2	21.9	25.8	21.9	12.9	10.3	9.0	7.7
75°	3130.5	326.3	43.9	21.9	16.8	31.0	28.4	11.6	7.7	6.4	6.4
77.5°	941.6	120.0	24.5	14.2	12.9	27.1	32.2	10.3	3.9	1.3	1.3
80°	171.6	51.6	15.5	9.0	9.0	16.8	24.5	5.2	0.0	0.0	0.0
82.5°	60.6	25.8	9.0	5.2	3.9	7.7	11.6	0.0	0.0	0.0	0.0
85°	34.8	18.1	5.2	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.2	5.2	0.0	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)