

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: P322854

Luminaire Tested: **GAN-SA0C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46211 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

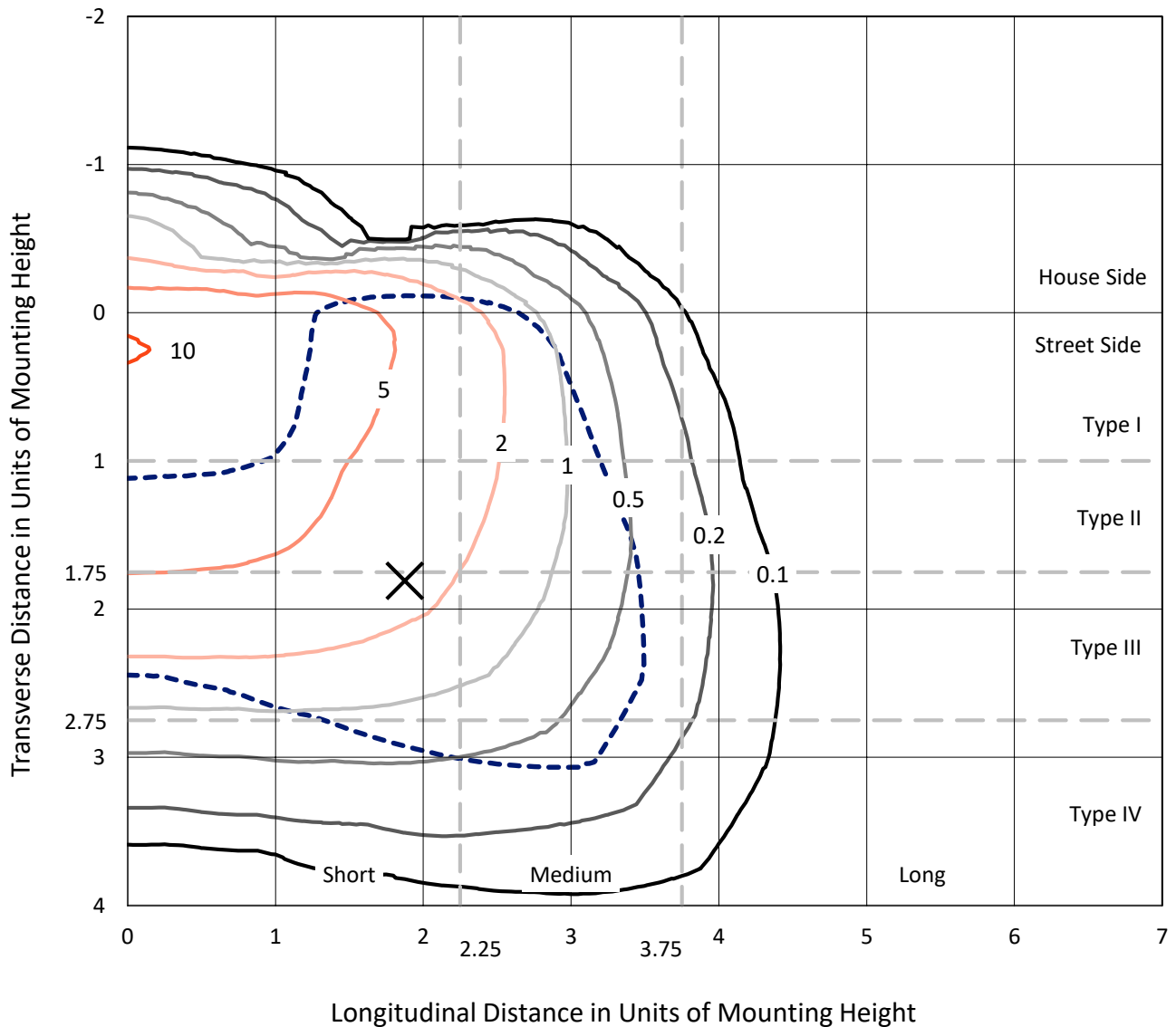
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

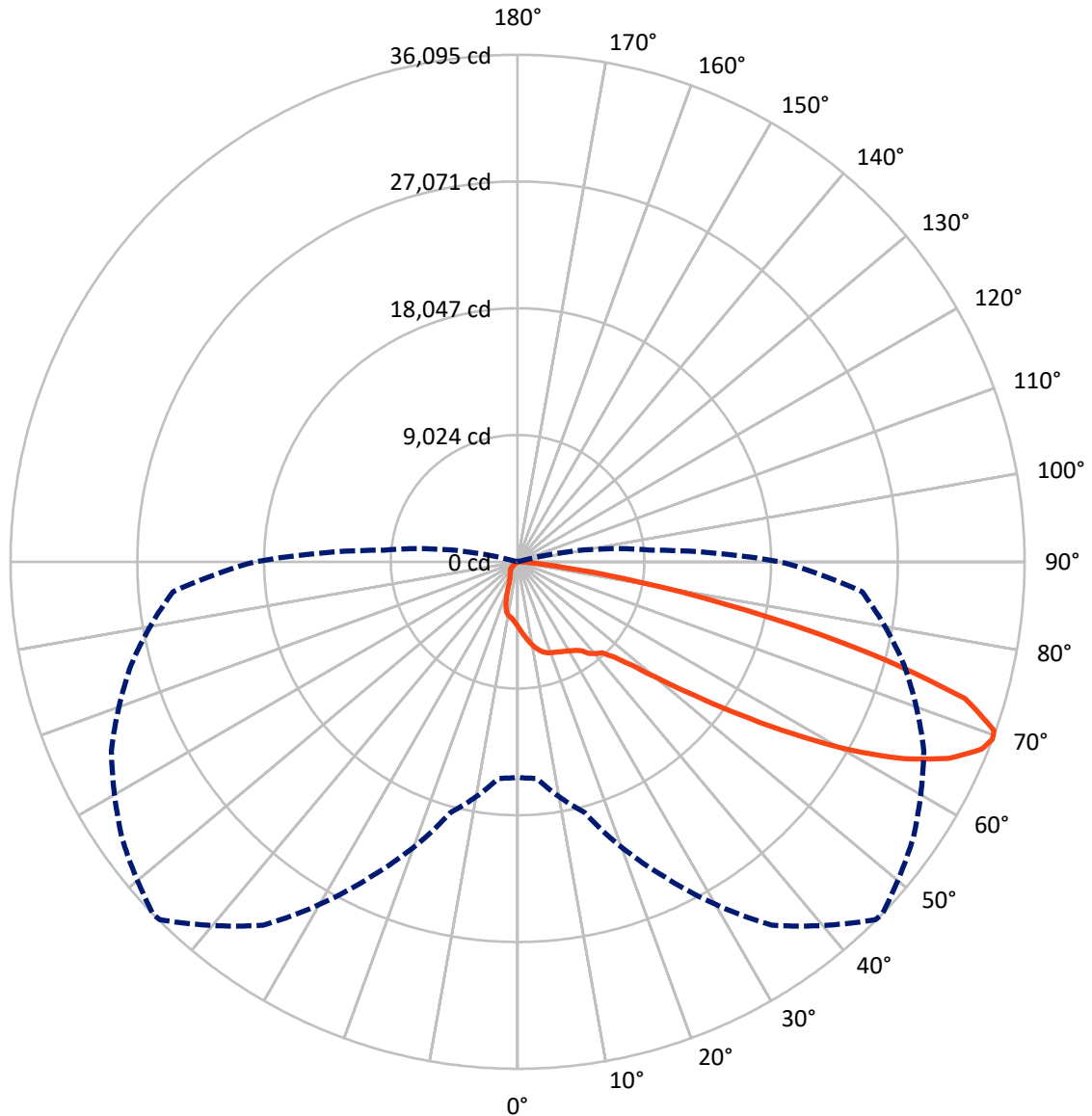
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4742.5	0.0	4742.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	41468.5	0.0	41468.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	46211.0	0.0	46211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	1.0
10°-20°	1398.1	3.0
20°-30°	2198.8	4.8
30°-40°	3153.1	6.8
40°-50°	5449.8	11.8
50°-60°	10766.5	23.3
60°-70°	15047.2	32.6
70°-80°	7269.4	15.7
80°-90°	467.2	1.0
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°	46211.0	100.0
0°-180°	46211.0	100.0

Coefficient of Utilization



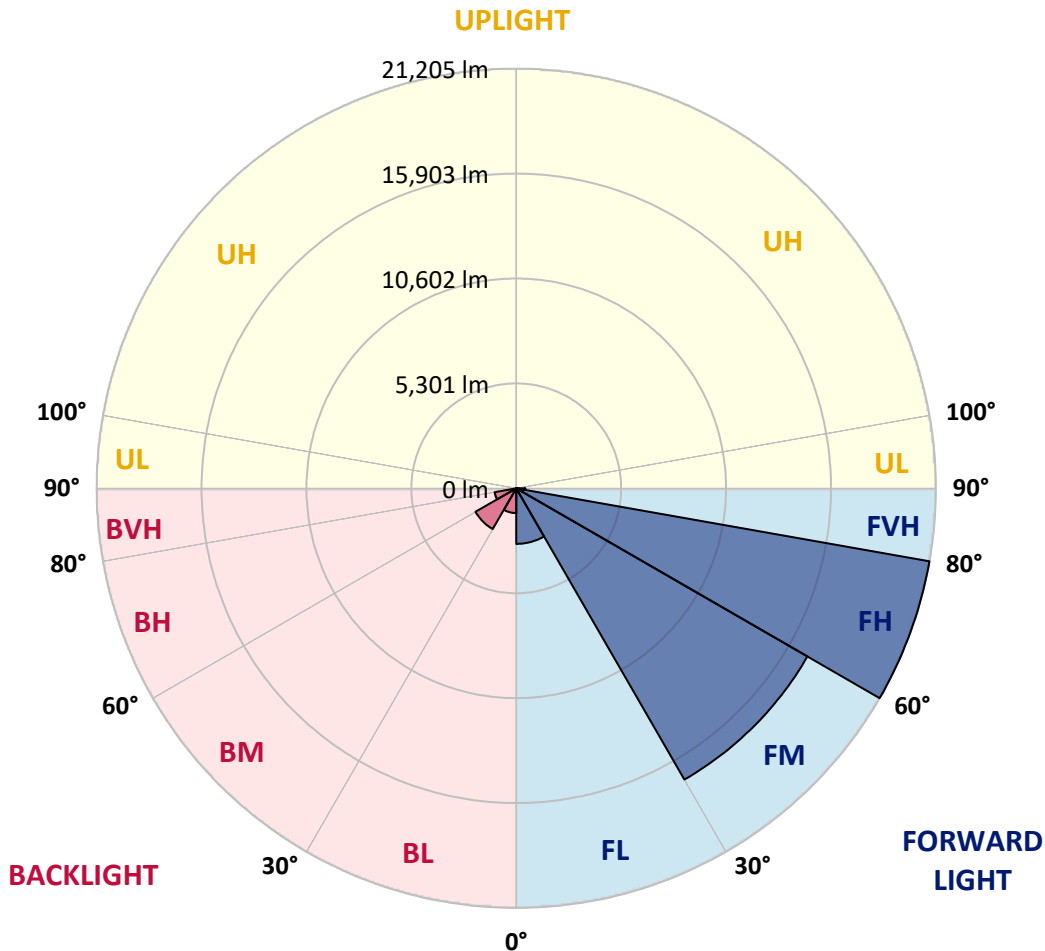
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2807.9	6.1			
FM (30°-60°)	16992.8	36.8			
FH (60°-80°)	21204.5	45.9			G5
FVH (80°-90°)	463.3	1.0			G3/500
BL (0°-30°)	1249.9	2.7	B3/2500		
BM (30°-60°)	2376.6	5.1	B2/2500		
BH (60°-80°)	1112.0	2.4	B3/2500		G3/2500
BVH (80°-90°)	3.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2
2.5°	5143.7	5137.2	5106.8	5093.8	5020.2	4976.8	4959.5	4905.3	4827.3	4749.3	4662.7
5°	5728.7	5726.5	5670.2	5616.0	5477.3	5347.3	5323.5	5197.8	5022.3	4857.7	4693.0
7.5°	6326.7	6298.5	6242.2	6138.2	5936.7	5728.7	5709.2	5531.5	5282.3	5044.0	4807.8
10°	6833.7	6816.3	6742.7	6584.5	6348.3	6112.2	6088.3	5869.5	5587.8	5295.3	4994.2
12.5°	7228.0	7215.0	7117.5	6920.3	6669.0	6424.2	6391.7	6196.7	5895.5	5568.3	5213.0
15°	7468.5	7462.0	7342.8	7132.7	6885.7	6673.3	6645.2	6474.0	6194.5	5852.2	5451.3
17.5°	7524.8	7527.0	7403.5	7191.2	6987.5	6835.8	6814.2	6684.2	6450.2	6110.0	5689.7
20°	7399.2	7425.2	7314.7	7130.5	7004.8	6924.7	6907.3	6829.3	6632.2	6311.5	5880.3
22.5°	7221.5	7234.5	7158.7	7035.2	6983.2	6998.3	6989.7	6946.3	6779.5	6484.8	6068.8
25°	7113.2	7113.2	7067.7	6963.7	6998.3	7091.5	7093.7	7085.0	6952.8	6697.2	6298.5
27.5°	7108.8	7095.8	7043.8	6965.8	7061.2	7204.2	7212.8	7271.3	7189.0	6955.0	6584.5
30°	7282.2	7267.0	7156.5	7054.7	7176.0	7329.8	7351.5	7479.3	7438.2	7234.5	6903.0
32.5°	7687.3	7633.2	7388.3	7221.5	7312.5	7496.7	7524.8	7728.5	7793.5	7579.0	7210.7
35°	8242.0	8070.8	7717.7	7537.8	7546.5	7739.3	7765.3	8064.3	8257.2	7895.3	7449.0
37.5°	9006.8	8922.3	8348.2	7867.2	7906.2	8198.7	8274.5	8599.5	8545.3	8068.7	7719.8
40°	10683.8	10551.7	9940.7	8790.2	8250.7	8571.3	8595.2	8768.5	8772.8	8460.8	8283.2
42.5°	12967.5	12913.3	12269.8	10465.0	8928.8	8820.5	8863.8	9156.3	9483.5	9288.5	9279.8
45°	15496.0	15467.8	14785.3	12688.0	10300.3	9637.3	9691.5	10083.7	10709.8	10753.2	11028.3
47.5°	17530.5	17517.5	17125.3	15168.8	12399.8	11021.8	11039.2	11455.2	12555.8	13099.7	13539.5
50°	19385.2	19448.0	19138.2	17853.3	15259.8	13190.7	13149.5	13426.8	15194.8	16085.3	16631.3
52.5°	21963.5	22052.3	21183.5	20358.0	18260.7	15881.7	15849.2	16139.5	18366.8	19034.2	19131.7
55°	24240.7	24089.0	23402.2	23163.8	21920.2	19205.3	19196.7	19452.3	21434.8	21718.7	21898.5
57.5°	25246.0	25187.5	25519.0	26065.0	25753.0	23133.5	23114.0	22919.0	24180.0	24210.3	24762.8
60°	25880.8	25952.3	26968.5	28652.0	29429.9	27360.7	27235.0	26045.5	26801.7	26734.5	27326.0
62.5°	25404.2	25545.0	27373.7	30179.5	32181.5	31050.5	30872.9	28909.9	29042.0	28810.2	29360.5
65°	22873.5	23092.3	26088.8	29891.4	33546.5	33934.4	33754.5	31438.4	30820.9	30439.5	30134.0
67.5°	18572.7	18702.7	21831.3	27384.5	32931.2	35654.7	35617.9	33654.9	32164.2	30164.4	27794.0
69°	15348.7	15476.5	18488.2	24745.5	31577.0	36023.0	36094.5	34365.5	31908.5	28491.7	24626.3
70°	13000.0	13136.5	15942.3	22483.5	30006.2	35851.9	35979.7	34298.4	31176.2	26554.7	21846.5
72.5°	6818.5	6935.5	9815.0	15489.5	24461.7	32920.4	33308.2	31399.4	26426.8	19285.5	12917.7
75°	2142.8	2210.0	3832.8	8096.8	16748.3	25597.0	25685.8	24630.7	18765.5	10608.0	5379.8
77.5°	816.8	797.3	1276.2	2983.5	8467.3	16117.8	16661.7	15392.0	9847.5	3750.5	1241.5
80°	439.8	442.0	663.0	1235.0	3622.7	8283.2	8742.5	7459.8	3499.2	1170.0	286.0
82.5°	190.7	199.3	372.7	654.3	1664.0	3055.0	3284.7	2734.3	1336.8	786.5	106.2
85°	41.2	45.5	179.8	355.3	678.2	858.0	899.2	886.2	851.5	611.0	41.2
87.5°	0.0	0.0	80.2	127.8	171.2	195.0	171.2	223.2	470.2	411.7	21.7
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°	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2
2.5°	4634.5	4595.5	4528.3	4454.7	4402.7	4348.5	4305.2	4285.7	4264.0	4248.8	4268.3
5°	4625.8	4550.0	4420.0	4294.3	4203.3	4129.7	4069.0	4045.2	4021.3	4004.0	4001.8
7.5°	4701.7	4595.5	4396.2	4212.0	4071.2	3971.5	3889.2	3854.5	3826.3	3813.3	3802.5
10°	4846.8	4710.3	4443.8	4203.3	4021.3	3852.3	3674.7	3538.2	3449.3	3408.2	3393.0
12.5°	5035.3	4864.2	4534.8	4248.8	3984.5	3659.5	3282.5	2957.5	2747.3	2678.0	2636.8
15°	5256.3	5044.0	4654.0	4307.3	3850.2	3256.5	2617.3	2192.7	1997.7	1958.7	1915.3
17.5°	5468.7	5234.7	4797.0	4318.2	3555.5	2602.2	1917.5	1629.3	1553.5	1579.5	1586.0
20°	5655.0	5423.2	4937.8	4222.8	3020.3	1952.2	1484.2	1412.7	1440.8	1490.7	1499.3
22.5°	5843.5	5605.2	5067.8	3971.5	2335.7	1482.0	1336.8	1354.2	1382.3	1432.2	1440.8
25°	6073.2	5826.2	5189.2	3510.0	1752.8	1261.0	1269.7	1295.7	1323.8	1369.3	1373.7
27.5°	6337.5	6105.7	5269.3	2909.8	1300.0	1159.2	1187.3	1226.3	1254.5	1297.8	1306.5
30°	6688.5	6474.0	5295.3	2288.0	1089.8	1068.2	1081.2	1128.8	1170.0	1209.0	1215.5
32.5°	7017.8	6838.0	5208.7	1726.8	1009.7	983.7	983.7	1011.8	1059.5	1096.3	1105.0
35°	7321.2	7204.2	4931.3	1263.2	949.0	905.7	884.0	884.0	914.3	944.7	953.3
37.5°	7722.0	7717.7	4482.8	1007.5	890.5	840.7	795.2	760.5	749.7	756.2	760.5
40°	8408.8	8415.3	3897.8	903.5	840.7	773.5	704.2	641.3	582.8	563.3	561.2
42.5°	9481.3	9383.8	3284.7	853.7	797.3	704.2	600.2	515.7	424.7	396.5	394.3
45°	11184.3	10605.8	2634.7	808.2	751.8	626.2	496.2	381.3	307.7	286.0	286.0
47.5°	13665.2	12211.3	2041.0	758.3	691.2	537.3	374.8	275.2	225.3	214.5	216.7
50°	16230.5	13784.3	1564.3	695.5	617.5	444.2	277.3	199.3	171.2	171.2	173.3
52.5°	18505.5	14937.0	1219.8	628.3	526.5	348.8	210.2	156.0	143.0	140.8	143.0
55°	20635.3	15680.2	933.8	550.3	418.2	260.0	160.3	127.8	119.2	114.8	112.7
57.5°	22689.3	16048.5	699.8	444.2	303.3	188.5	127.8	108.3	99.7	93.2	91.0
60°	24056.5	15749.5	481.0	327.2	210.2	136.5	106.2	93.2	82.3	75.8	73.7
62.5°	24827.8	14932.7	309.8	236.2	149.5	101.8	84.5	78.0	62.8	56.3	56.3
65°	24515.8	13585.0	216.7	169.0	108.3	75.8	62.8	62.8	45.5	36.8	34.7
67.5°	21725.2	11476.8	164.7	125.7	78.0	56.3	47.7	54.2	28.2	17.3	17.3
69°	18691.8	9511.7	140.8	104.0	65.0	45.5	41.2	49.8	19.5	13.0	10.8
70°	16245.7	8205.2	127.8	91.0	54.2	39.0	36.8	47.7	19.5	10.8	8.7
72.5°	9719.7	4576.0	97.5	65.0	34.7	30.3	30.3	54.2	19.5	10.8	8.7
75°	3928.2	1612.0	71.5	45.5	26.0	26.0	36.8	69.3	17.3	8.7	6.5
77.5°	890.5	353.2	41.2	28.2	17.3	26.0	43.3	54.2	10.8	4.3	0.0
80°	216.7	86.7	26.0	17.3	10.8	19.5	32.5	30.3	2.2	0.0	0.0
82.5°	71.5	30.3	10.8	8.7	2.2	6.5	15.2	8.7	0.0	0.0	0.0
85°	30.3	17.3	4.3	2.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0
87.5°	19.5	6.5	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)