

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: P321582

Luminaire Tested: **GAN-SA8D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321582
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-SA8D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 43555 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

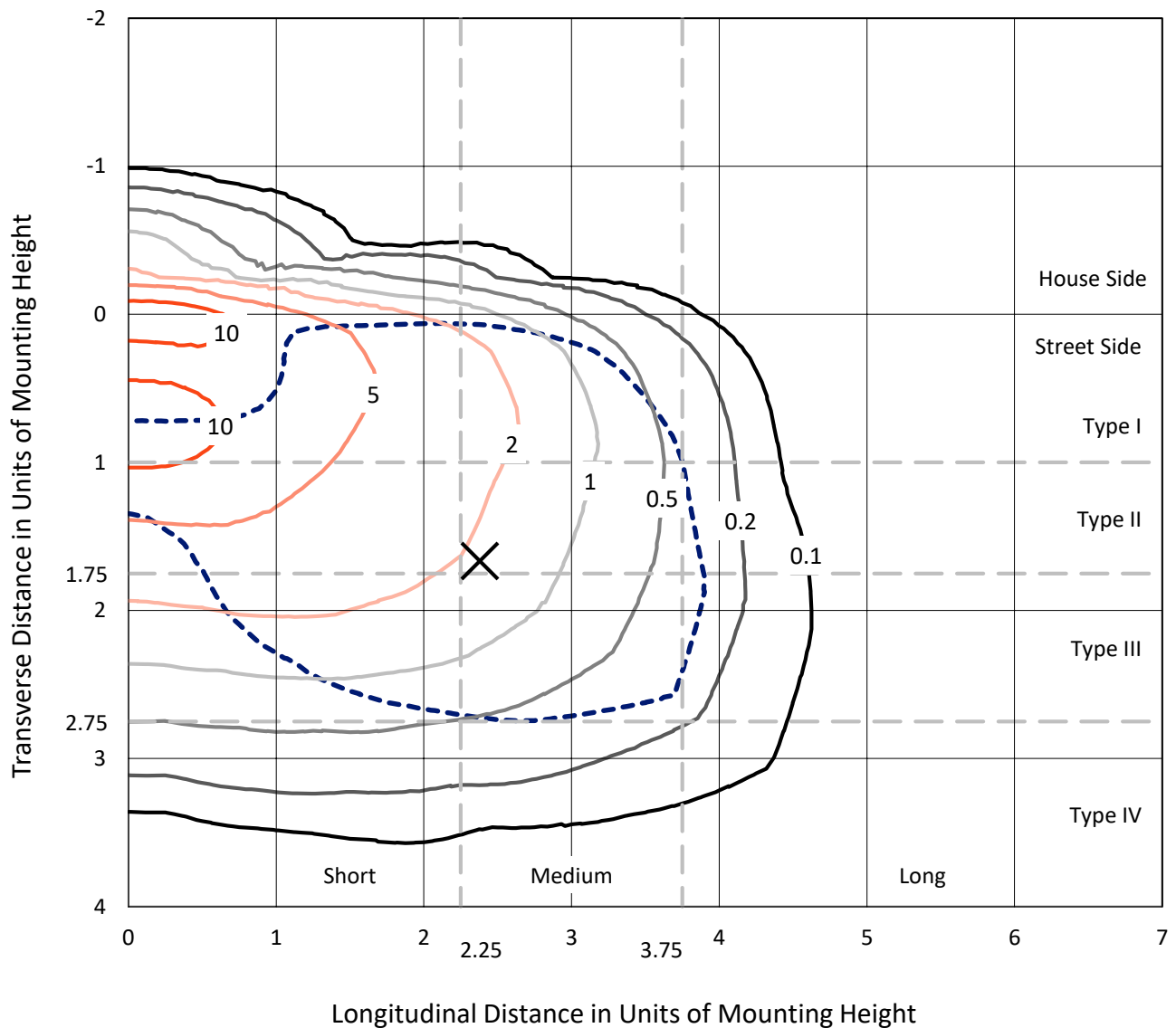
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

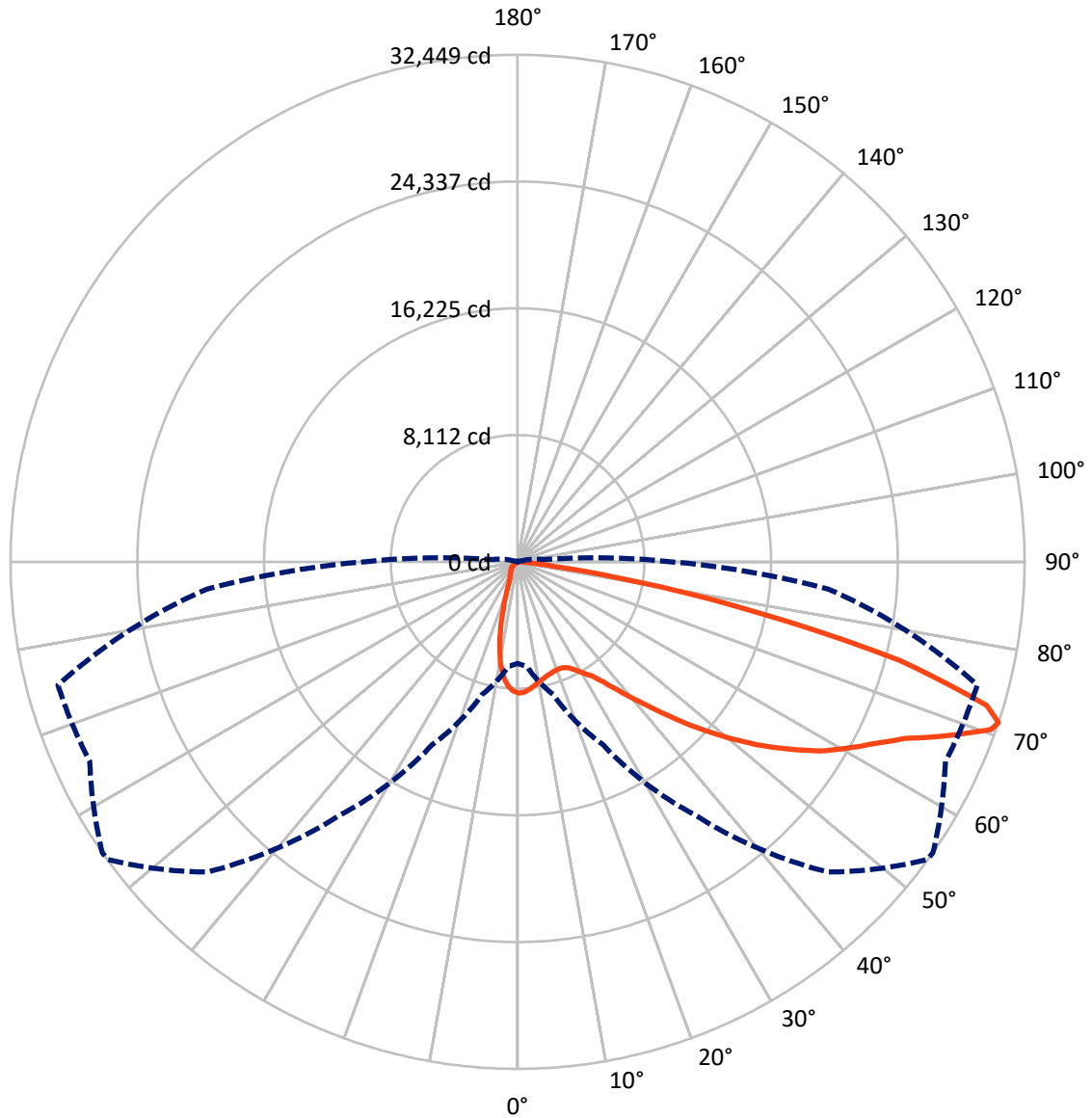
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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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	3448.4	0.0	3448.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	40106.6	0.0	40106.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	43555.0	0.0	43555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.2	1.6
10°-20°	1616.9	3.7
20°-30°	2598.3	6.0
30°-40°	4414.7	10.1
40°-50°	6852.2	15.7
50°-60°	9212.6	21.2
60°-70°	11270.0	25.9
70°-80°	6589.3	15.1
80°-90°	284.8	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°	43555.0	100.0
0°-180°	43555.0	100.0

Coefficient of Utilization

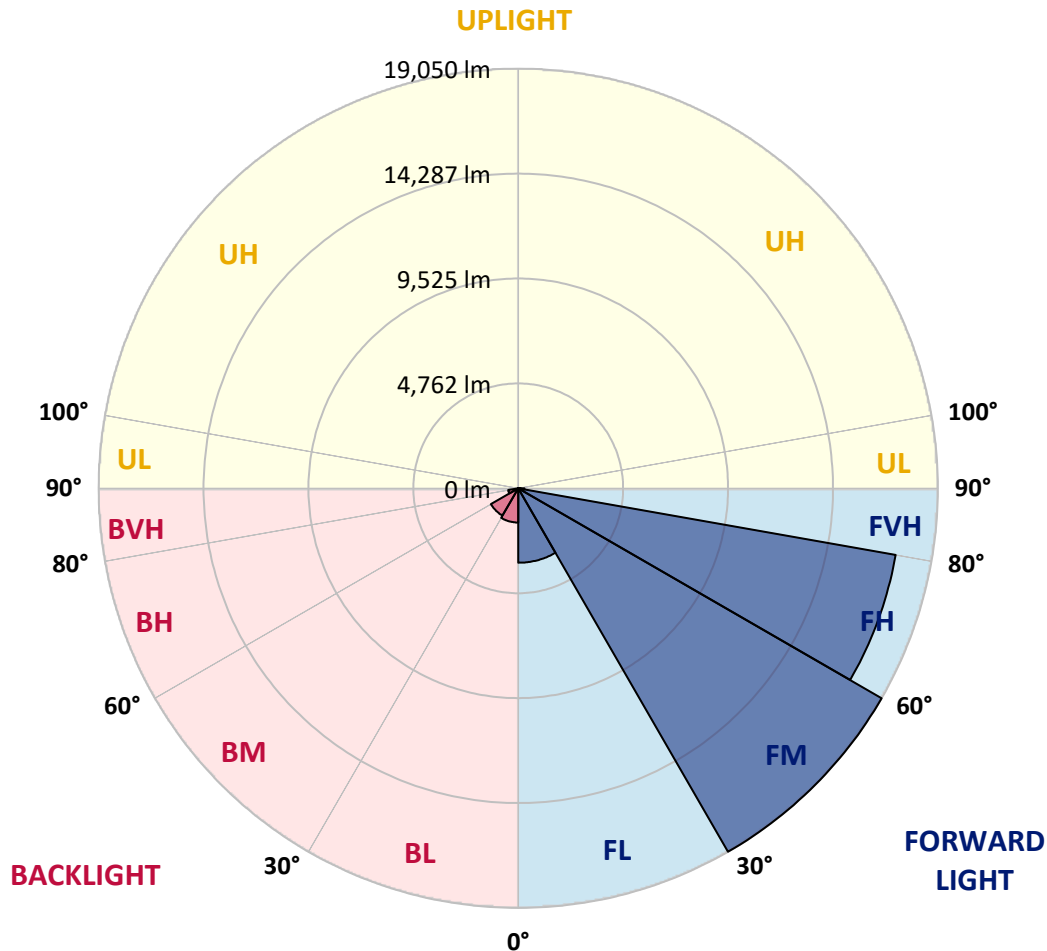


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.3	7.8			
FM (30°-60°)	19049.7	43.7			
FH (60°-80°)	17397.3	39.9			G5
FVH (80°-90°)	280.3	0.6			G3/500
BL (0°-30°)	1552.1	3.6	B3/2500		
BM (30°-60°)	1429.8	3.3	B2/2500		
BH (60°-80°)	462.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7
2.5°	8153.3	8163.1	8198.3	8213.9	8251.1	8313.7	8345.0	8346.9	8397.8	8417.3	8433.0
5°	7576.4	7635.1	7693.7	7756.3	7869.7	8020.3	8169.0	8182.7	8346.9	8468.2	8532.7
7.5°	7079.6	7132.4	7202.8	7302.6	7463.0	7699.6	7948.0	7977.3	8288.3	8564.0	8708.7
10°	6569.2	6612.2	6713.9	6860.6	7081.6	7398.4	7732.8	7781.7	8235.5	8693.1	8947.3
12.5°	6023.6	6049.0	6172.2	6383.4	6708.1	7110.9	7551.0	7615.5	8202.2	8841.7	9229.0
15°	5609.0	5620.7	5738.0	5957.1	6328.7	6852.8	7410.2	7488.4	8210.0	9019.7	9536.0
17.5°	5503.3	5509.2	5571.8	5722.4	6050.9	6622.0	7298.7	7394.5	8233.5	9193.8	9845.0
20°	5931.6	5890.6	5826.0	5802.6	5943.4	6483.2	7232.2	7339.7	8264.8	9348.3	10122.7
22.5°	7107.0	6985.8	6717.8	6359.9	6142.9	6492.9	7249.8	7357.3	8364.5	9538.0	10443.4
25°	8851.5	8683.3	8227.6	7523.6	6846.9	6774.6	7396.5	7506.0	8558.1	9764.8	10750.5
27.5°	10836.5	10670.3	10112.9	9107.7	7953.8	7331.9	7732.8	7834.5	8845.6	9966.3	10985.2
30°	12737.5	12690.5	12033.4	10891.3	9346.3	8235.5	8167.0	8253.1	9058.8	10087.5	11171.0
32.5°	14349.0	14274.7	13746.6	12635.8	10940.2	9320.9	8677.4	8702.9	9219.2	10244.0	11413.5
35°	15843.1	15751.2	15287.7	14237.5	12575.2	10646.8	9463.6	9426.5	9569.2	10558.8	11765.5
37.5°	17147.6	17231.7	16717.3	15718.0	14041.9	12025.6	10523.6	10412.2	10116.8	11071.2	12275.9
40°	18238.9	18238.9	17970.9	17137.8	15626.1	13451.3	11722.5	11575.8	10940.2	11861.3	12923.3
42.5°	18632.0	18716.1	18815.8	18344.5	17043.9	14933.7	13058.2	12905.7	12099.9	12981.9	13740.8
45°	18655.4	18788.4	19298.9	19296.9	18324.9	16406.4	14564.1	14491.7	13586.3	14421.3	14753.8
47.5°	18324.9	18491.2	19332.1	19809.3	19339.9	17777.3	16210.8	16120.8	15332.7	16185.4	15813.8
50°	17814.5	17998.3	18976.2	20010.7	20030.3	18970.3	17945.5	17810.6	17255.2	18201.7	16909.0
52.5°	16901.2	17257.1	18657.4	20057.7	20484.0	20001.0	19596.1	19537.5	19406.4	20143.7	17781.2
55°	14947.4	15342.5	17857.5	20073.3	20904.5	20914.3	21143.1	21158.7	21422.8	21958.6	18430.5
57.5°	14024.3	14247.3	16461.1	20147.6	21528.4	21950.8	22719.4	22840.6	23249.4	23681.6	19171.7
60°	13443.5	13707.5	15772.7	20045.9	22508.2	23310.0	24180.3	24221.4	24659.4	25459.3	20175.0
62.5°	12980.0	13240.1	15338.6	19654.8	23609.2	24945.0	25608.0	25611.9	25940.4	27577.3	21315.2
65°	11835.9	12054.9	14460.5	19214.8	24336.7	26562.3	27266.4	27241.0	27508.9	29810.8	22639.2
67.5°	10181.4	10349.6	12667.1	17546.6	24063.0	28033.0	29769.7	29685.6	29360.9	31741.0	23159.4
70°	7871.7	7932.3	9983.9	14622.8	21497.1	28598.2	32188.9	32145.9	30497.2	31394.9	21252.6
71°	6506.6	6706.1	8798.7	12905.7	19778.0	28076.1	32423.6	32449.0	30211.7	30452.2	19940.3
72.5°	3778.4	3948.6	6377.5	9911.5	16791.7	25897.4	31207.1	31391.0	28877.9	27698.6	17032.2
75°	809.7	866.4	2364.4	4797.3	9236.8	18150.9	24632.1	25287.2	23536.9	18843.2	10265.5
77.5°	563.2	608.2	1013.1	2176.7	3052.9	8968.8	15301.4	16040.7	14061.5	7081.6	3285.6
80°	445.9	496.7	790.1	1075.6	825.3	2892.5	7167.6	7619.4	4689.8	1580.2	553.5
82.5°	248.4	295.3	616.0	580.8	316.8	549.6	2006.5	2268.6	938.7	318.8	131.0
85°	72.4	88.0	397.0	422.4	134.9	105.6	342.2	424.4	178.0	84.1	58.7
87.5°	0.0	0.0	191.7	162.3	39.1	15.6	31.3	35.2	35.2	35.2	39.1
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°	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7	8399.7
2.5°	8433.0	8446.7	8397.8	8333.2	8264.8	8180.7	8092.7	8024.2	8022.3	7989.0	7955.8
5°	8536.6	8528.8	8393.9	8188.5	7946.0	7693.7	7453.2	7181.3	7091.4	6979.9	6942.7
7.5°	8728.3	8673.5	8388.0	7938.2	7406.2	6878.2	6332.6	5783.0	5548.3	5337.1	5300.0
10°	8968.8	8865.2	8350.8	7562.7	6586.8	5612.9	4789.5	4042.4	3713.9	3461.6	3449.9
12.5°	9219.2	9060.8	8247.2	6995.5	5513.1	4144.1	3195.6	2460.3	2186.5	2010.5	2026.1
15°	9481.2	9244.6	8024.2	6230.9	4290.8	2812.3	1963.5	1531.3	1421.8	1376.8	1388.5
17.5°	9749.2	9371.7	7713.3	5309.7	3084.1	1814.9	1359.2	1238.0	1238.0	1247.7	1251.6
20°	9981.9	9440.2	7255.7	4277.1	2090.6	1322.1	1189.1	1171.5	1181.2	1196.9	1198.8
22.5°	10212.7	9444.1	6659.2	3230.8	1462.9	1157.8	1132.4	1124.5	1130.4	1148.0	1150.0
25°	10400.4	9397.1	5912.1	2297.9	1167.6	1091.3	1079.5	1075.6	1079.5	1101.1	1101.1
27.5°	10476.7	9227.0	5000.7	1615.4	1046.3	1017.0	1013.1	1017.0	1022.8	1038.5	1040.4
30°	10484.5	8929.7	4007.2	1169.5	948.5	917.2	925.0	938.7	932.9	929.0	932.9
32.5°	10504.1	8585.5	3039.2	962.2	866.4	817.5	807.7	807.7	784.2	770.5	762.7
35°	10568.6	8180.7	2204.1	864.4	782.3	725.6	688.4	645.4	600.4	576.9	571.1
37.5°	10670.3	7756.3	1578.3	799.9	708.0	643.4	573.0	496.7	432.2	414.6	414.6
40°	10856.1	7318.2	1167.6	749.0	649.3	569.1	463.5	363.8	305.1	295.3	295.3
42.5°	11149.5	6856.7	930.9	704.1	598.4	492.8	354.0	264.0	221.0	215.1	213.2
45°	11454.5	6348.2	813.6	661.0	543.7	404.8	262.1	195.6	170.1	164.3	164.3
47.5°	11759.6	5806.5	756.9	620.0	490.9	314.9	195.6	154.5	142.8	142.8	144.7
50°	12017.8	5241.3	715.8	575.0	422.4	238.6	154.5	131.0	127.1	134.9	136.9
52.5°	12082.3	4685.9	664.9	518.3	338.3	181.9	127.1	115.4	115.4	115.4	115.4
55°	12043.2	4255.6	598.4	447.9	250.3	144.7	109.5	101.7	99.7	99.7	99.7
57.5°	12176.2	4001.4	479.1	348.1	179.9	117.3	95.8	90.0	86.1	84.1	84.1
60°	12444.1	3835.1	342.2	250.3	134.9	97.8	82.1	76.3	70.4	66.5	66.5
62.5°	12800.1	3690.4	254.2	185.8	103.7	78.2	68.4	62.6	54.8	50.8	50.8
65°	13073.9	3432.3	193.6	138.9	78.2	62.6	52.8	50.8	39.1	35.2	33.2
67.5°	12655.3	2865.1	156.5	101.7	58.7	48.9	41.1	39.1	23.5	19.6	19.6
70°	10854.1	1994.8	125.2	74.3	43.0	39.1	33.2	25.4	17.6	15.6	15.6
71°	9843.0	1666.3	113.4	62.6	37.2	37.2	31.3	21.5	15.6	13.7	13.7
72.5°	8176.8	1183.2	95.8	48.9	33.2	39.1	33.2	19.6	15.6	13.7	11.7
75°	4746.5	494.8	66.5	33.2	25.4	46.9	43.0	17.6	11.7	9.8	9.8
77.5°	1427.7	181.9	37.2	21.5	19.6	41.1	48.9	15.6	5.9	2.0	2.0
80°	260.1	78.2	23.5	13.7	13.7	25.4	37.2	7.8	0.0	0.0	0.0
82.5°	91.9	39.1	13.7	7.8	5.9	11.7	17.6	0.0	0.0	0.0	0.0
85°	52.8	27.4	7.8	3.9	0.0	2.0	3.9	0.0	0.0	0.0	0.0
87.5°	35.2	7.8	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)