

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: P321569

Luminaire Tested: **GAN-SA5C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321569
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-SA5C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 24760 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

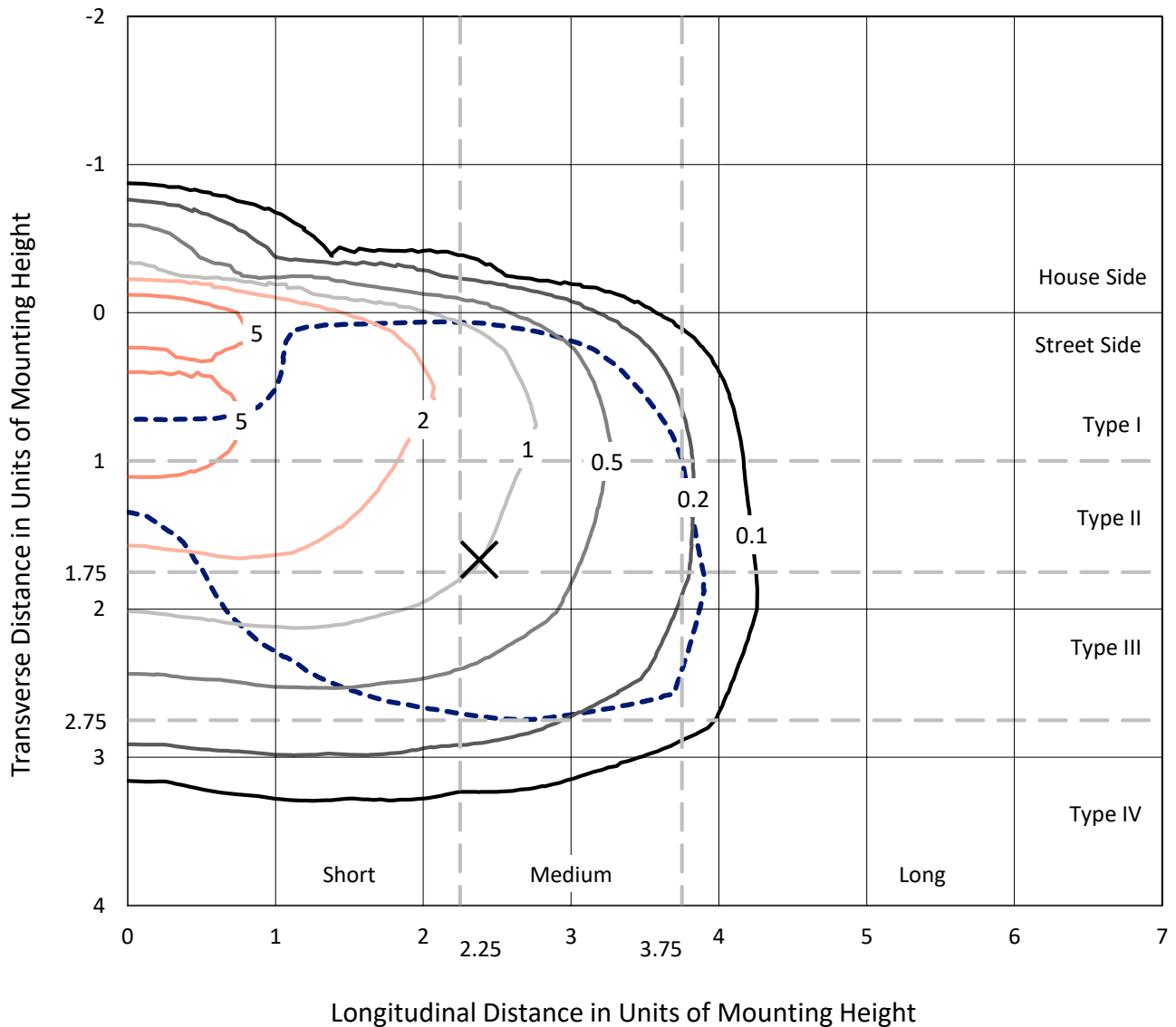
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

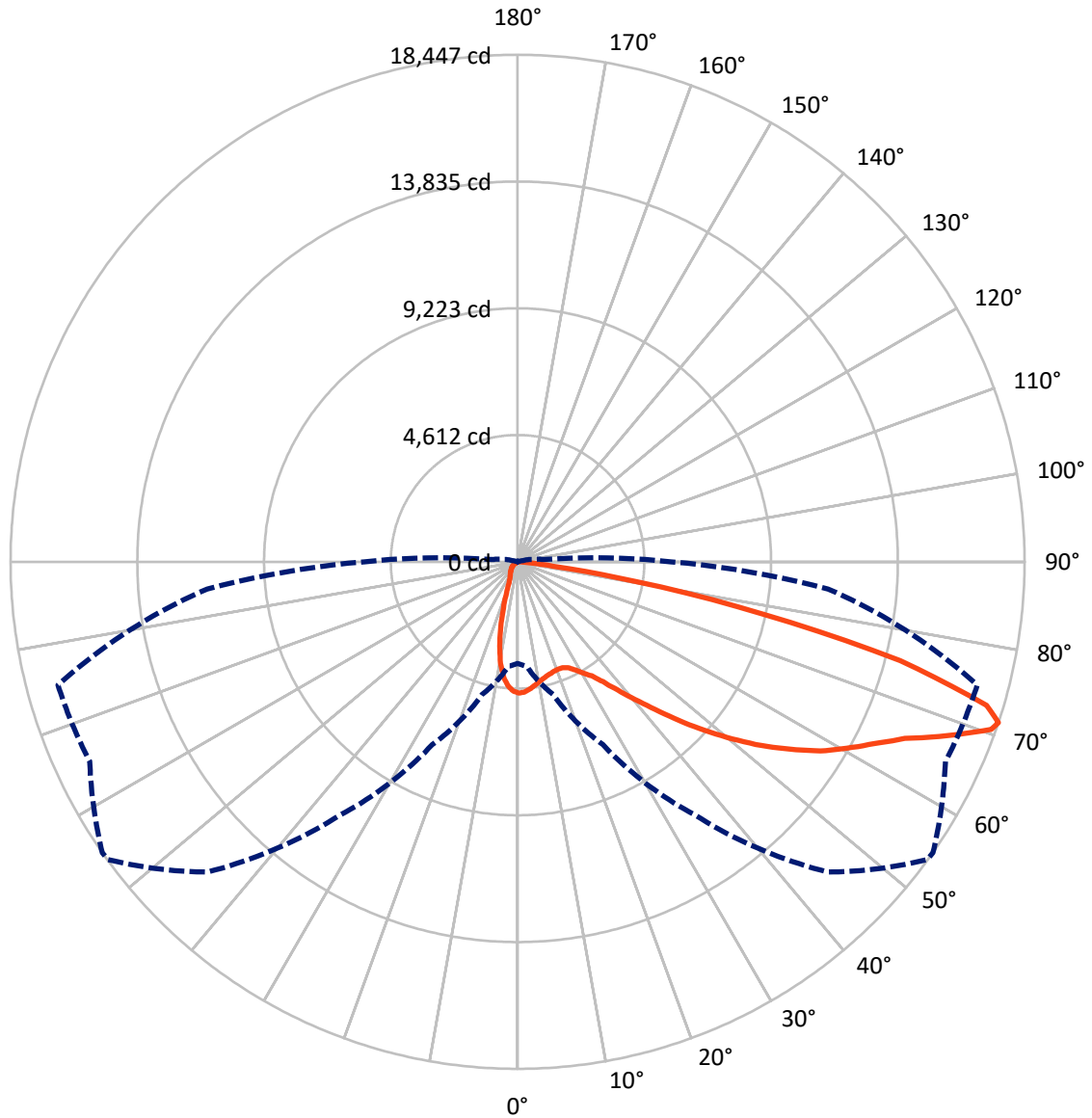
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1960.3	0.0	1960.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	22799.7	0.0	22799.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	24760.0	0.0	24760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.6
10°-20°	919.1	3.7
20°-30°	1477.1	6.0
30°-40°	2509.7	10.1
40°-50°	3895.3	15.7
50°-60°	5237.1	21.2
60°-70°	6406.7	25.9
70°-80°	3745.9	15.1
80°-90°	161.9	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°	24760.0	100.0
0°-180°	24760.0	100.0

Coefficient of Utilization

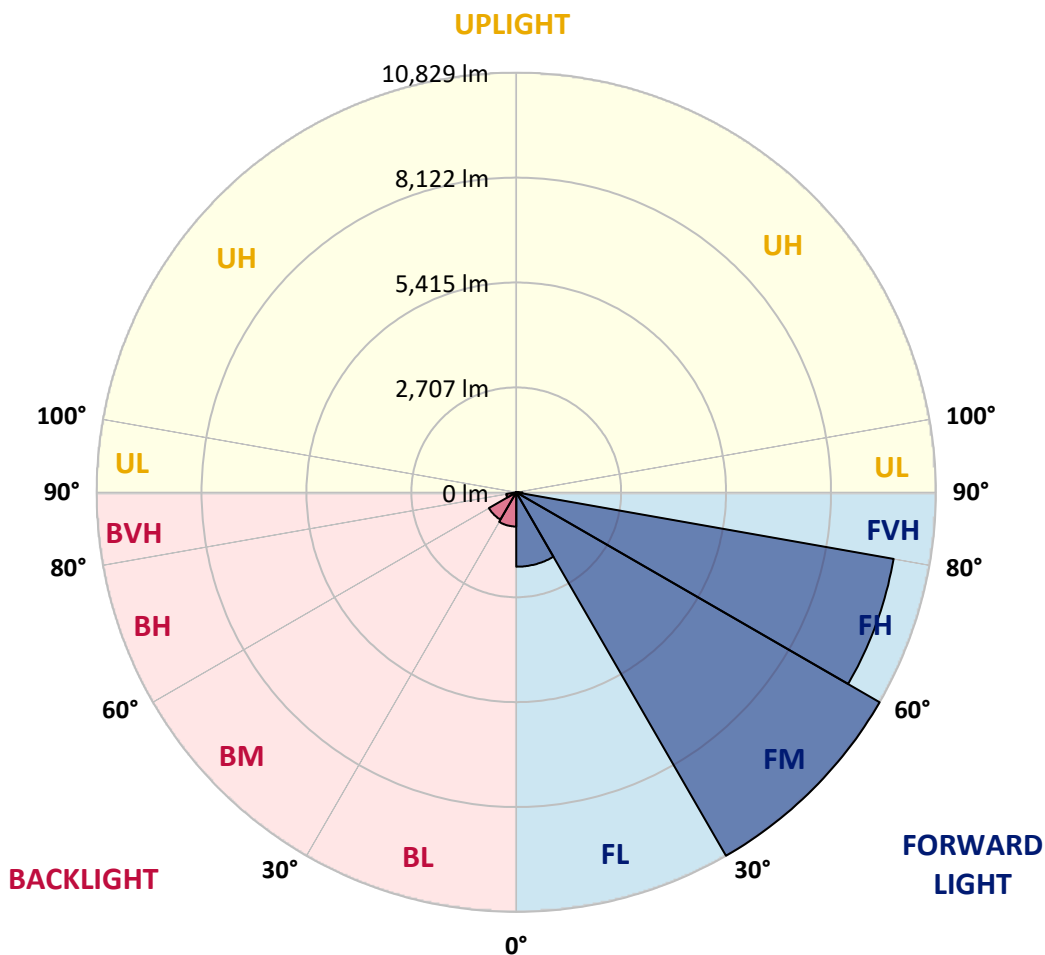


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.0	7.8			
FM (30°-60°)	10829.3	43.7			
FH (60°-80°)	9890.0	39.9			G4/12000
FVH (80°-90°)	159.4	0.6			G2/225
BL (0°-30°)	882.3	3.6	B2/1000		
BM (30°-60°)	812.8	3.3	B1/1000		
BH (60°-80°)	262.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1
2.5°	4635.0	4640.5	4660.5	4669.4	4690.6	4726.1	4743.9	4745.0	4773.9	4785.1	4794.0
5°	4307.0	4340.4	4373.7	4409.3	4473.8	4559.4	4643.9	4651.6	4745.0	4814.0	4850.7
7.5°	4024.6	4054.6	4094.7	4151.4	4242.5	4377.0	4518.2	4534.9	4711.7	4868.4	4950.7
10°	3734.4	3758.9	3816.7	3900.1	4025.7	4205.8	4395.9	4423.7	4681.7	4941.8	5086.4
12.5°	3424.3	3438.7	3508.7	3628.8	3813.4	4042.4	4292.5	4329.2	4662.8	5026.3	5246.4
15°	3188.6	3195.2	3261.9	3386.5	3597.7	3895.6	4212.5	4257.0	4667.2	5127.5	5421.0
17.5°	3128.5	3131.9	3167.4	3253.0	3439.8	3764.5	4149.1	4203.6	4680.6	5226.4	5596.7
20°	3372.0	3348.7	3312.0	3298.6	3378.7	3685.5	4111.3	4172.5	4698.3	5314.3	5754.5
22.5°	4040.2	3971.2	3818.9	3615.5	3492.1	3691.1	4121.3	4182.5	4755.0	5422.1	5936.9
25°	5031.9	4936.3	4677.2	4277.0	3892.3	3851.2	4204.7	4267.0	4865.1	5551.1	6111.4
27.5°	6160.3	6065.8	5749.0	5177.5	4521.6	4168.0	4395.9	4453.8	5028.5	5665.6	6244.8
30°	7241.0	7214.3	6840.7	6191.5	5313.2	4681.7	4642.8	4691.7	5149.7	5734.5	6350.4
32.5°	8157.1	8114.8	7814.6	7183.2	6219.2	5298.7	4932.9	4947.4	5240.9	5823.5	6488.3
35°	9006.5	8954.2	8690.7	8093.7	7148.7	6052.5	5379.9	5358.7	5439.9	6002.4	6688.4
37.5°	9748.0	9795.8	9503.4	8935.3	7982.5	6836.3	5982.4	5919.1	5751.2	6293.7	6978.6
40°	10368.4	10368.4	10216.1	9742.4	8883.0	7646.8	6664.0	6580.6	6219.2	6742.9	7346.6
42.5°	10591.8	10639.6	10696.3	10428.4	9689.1	8489.5	7423.3	7336.6	6878.5	7379.9	7811.3
45°	10605.2	10680.8	10971.0	10969.8	10417.3	9326.6	8279.4	8238.2	7723.5	8198.2	8387.2
47.5°	10417.3	10511.8	10989.9	11261.1	10994.3	10106.0	9215.5	9164.3	8716.3	9201.0	8989.8
50°	10127.1	10231.6	10787.5	11375.6	11386.8	10784.2	10201.6	10124.9	9809.2	10347.2	9612.4
52.5°	9607.9	9810.3	10606.3	11402.3	11644.7	11370.1	11139.9	11106.6	11032.1	11451.2	10108.2
55°	8497.3	8721.8	10151.6	11411.2	11883.7	11889.3	12019.4	12028.2	12178.3	12483.0	10477.3
57.5°	7972.5	8099.2	9357.8	11453.5	12238.4	12478.5	12915.4	12984.4	13216.7	13462.4	10898.7
60°	7642.3	7792.4	8966.4	11395.6	12795.4	13251.2	13745.9	13769.3	14018.3	14473.0	11469.0
62.5°	7378.8	7526.7	8719.6	11173.3	13421.3	14180.6	14557.5	14559.7	14746.5	15677.1	12117.2
65°	6728.4	6853.0	8220.4	10923.1	13834.9	15100.1	15500.3	15485.9	15638.2	16946.7	12869.9
67.5°	5787.9	5883.5	7200.9	9974.8	13679.2	15936.1	16923.4	16875.6	16691.0	18044.0	13165.6
70°	4474.9	4509.3	5675.6	8312.7	12220.6	16257.4	18298.6	18274.2	17337.0	17847.3	12081.6
71°	3698.9	3812.3	5001.9	7336.6	11243.3	15960.6	18432.0	18446.5	17174.6	17311.4	11335.6
72.5°	2147.9	2244.7	3625.5	5634.5	9545.7	14722.1	17740.5	17845.0	16416.4	15746.0	9682.4
75°	460.3	492.5	1344.1	2727.2	5250.9	10318.3	14002.8	14375.2	13380.2	10711.9	5835.7
77.5°	320.2	345.8	575.9	1237.4	1735.5	5098.6	8698.5	9118.7	7993.6	4025.7	1867.8
80°	253.5	282.4	449.2	611.5	469.2	1644.3	4074.6	4331.5	2666.0	898.3	314.6
82.5°	141.2	167.9	350.2	330.2	180.1	312.4	1140.7	1289.7	533.6	181.2	74.5
85°	41.1	50.0	225.7	240.1	76.7	60.0	194.6	241.3	101.2	47.8	33.4
87.5°	0.0	0.0	109.0	92.3	22.2	8.9	17.8	20.0	20.0	20.0	22.2
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°	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1	4775.1
2.5°	4794.0	4801.7	4773.9	4737.3	4698.3	4650.5	4600.5	4561.6	4560.5	4541.6	4522.7
5°	4852.9	4848.4	4771.7	4655.0	4517.1	4373.7	4237.0	4082.4	4031.3	3967.9	3946.8
7.5°	4961.8	4930.7	4768.4	4512.7	4210.3	3910.1	3599.9	3287.5	3154.1	3034.0	3012.9
10°	5098.6	5039.7	4747.3	4299.2	3744.4	3190.8	2722.7	2298.0	2111.3	1967.8	1961.2
12.5°	5240.9	5150.8	4688.3	3976.8	3134.1	2355.8	1816.6	1398.6	1243.0	1142.9	1151.8
15°	5389.9	5255.3	4561.6	3542.1	2439.2	1598.7	1116.2	870.5	808.3	782.7	789.4
17.5°	5542.2	5327.6	4384.8	3018.5	1753.3	1031.7	772.7	703.8	703.8	709.3	711.5
20°	5674.5	5366.5	4124.7	2431.4	1188.5	751.6	676.0	666.0	671.5	680.4	681.5
22.5°	5805.7	5368.7	3785.6	1836.6	831.6	658.2	643.7	639.3	642.6	652.6	653.7
25°	5912.4	5342.1	3360.9	1306.3	663.7	620.4	613.7	611.5	613.7	625.9	625.9
27.5°	5955.8	5245.3	2842.8	918.3	594.8	578.1	575.9	578.1	581.5	590.4	591.5
30°	5960.2	5076.3	2278.0	664.8	539.2	521.4	525.9	533.6	530.3	528.1	530.3
32.5°	5971.3	4880.7	1727.7	547.0	492.5	464.7	459.2	459.2	445.8	438.0	433.6
35°	6008.0	4650.5	1253.0	491.4	444.7	412.5	391.3	366.9	341.3	328.0	324.6
37.5°	6065.8	4409.3	897.2	454.7	402.5	365.8	325.7	282.4	245.7	235.7	235.7
40°	6171.4	4160.2	663.7	425.8	369.1	323.5	263.5	206.8	173.4	167.9	167.9
42.5°	6338.2	3897.9	529.2	400.2	340.2	280.2	201.2	150.1	125.6	122.3	121.2
45°	6511.6	3608.8	462.5	375.8	309.1	230.1	149.0	111.2	96.7	93.4	93.4
47.5°	6685.1	3300.8	430.3	352.4	279.1	179.0	111.2	87.8	81.2	81.2	82.3
50°	6831.8	2979.5	406.9	326.9	240.1	135.6	87.8	74.5	72.3	76.7	77.8
52.5°	6868.5	2663.8	378.0	294.6	192.3	103.4	72.3	65.6	65.6	65.6	65.6
55°	6846.3	2419.2	340.2	254.6	142.3	82.3	62.3	57.8	56.7	56.7	56.7
57.5°	6921.9	2274.7	272.4	197.9	102.3	66.7	54.5	51.1	48.9	47.8	47.8
60°	7074.2	2180.2	194.6	142.3	76.7	55.6	46.7	43.4	40.0	37.8	37.8
62.5°	7276.5	2097.9	144.5	105.6	58.9	44.5	38.9	35.6	31.1	28.9	28.9
65°	7432.2	1951.2	110.1	78.9	44.5	35.6	30.0	28.9	22.2	20.0	18.9
67.5°	7194.3	1628.7	88.9	57.8	33.4	27.8	23.3	22.2	13.3	11.1	11.1
70°	6170.3	1134.0	71.2	42.2	24.5	22.2	18.9	14.5	10.0	8.9	8.9
71°	5595.5	947.2	64.5	35.6	21.1	21.1	17.8	12.2	8.9	7.8	7.8
72.5°	4648.3	672.6	54.5	27.8	18.9	22.2	18.9	11.1	8.9	7.8	6.7
75°	2698.3	281.3	37.8	18.9	14.5	26.7	24.5	10.0	6.7	5.6	5.6
77.5°	811.6	103.4	21.1	12.2	11.1	23.3	27.8	8.9	3.3	1.1	1.1
80°	147.9	44.5	13.3	7.8	7.8	14.5	21.1	4.4	0.0	0.0	0.0
82.5°	52.3	22.2	7.8	4.4	3.3	6.7	10.0	0.0	0.0	0.0	0.0
85°	30.0	15.6	4.4	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	20.0	4.4	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)