

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: P321971

Luminaire Tested: **GAN-SA7C-750-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35591 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

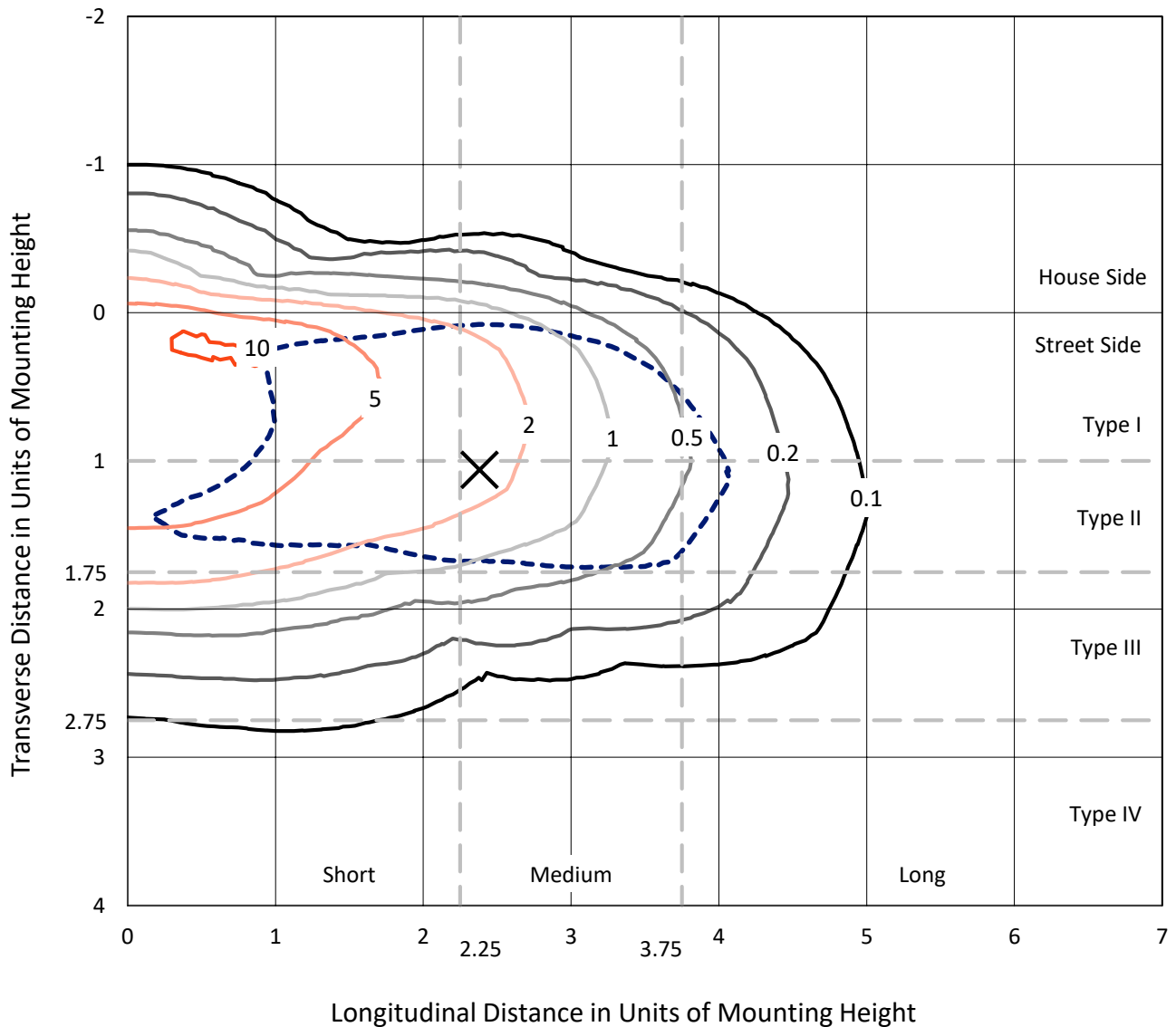
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

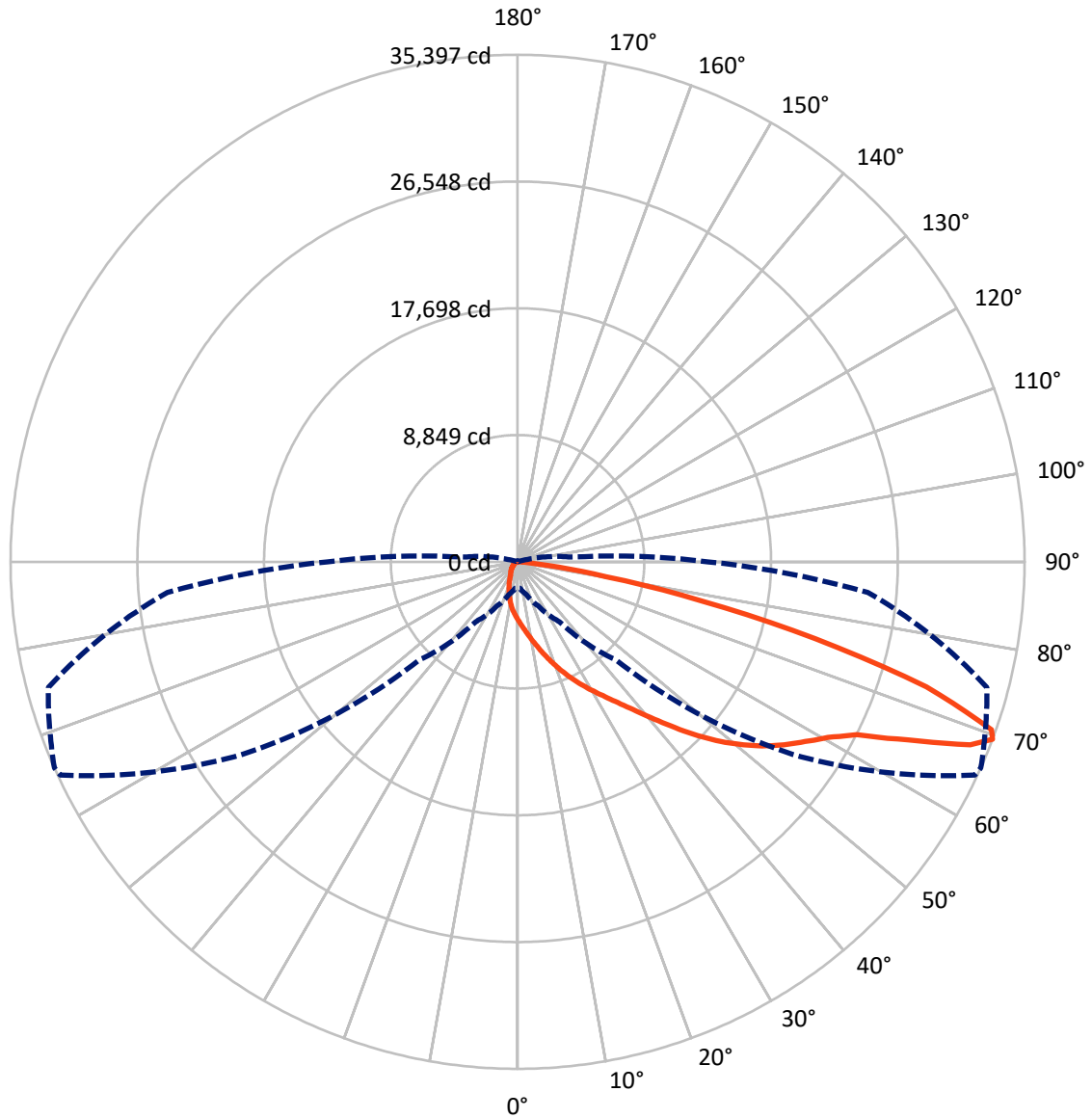
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.0	0.0	2135.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	33456.0	0.0	33456.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	35591.0	0.0	35591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	1.1
10°-20°	1165.2	3.3
20°-30°	2029.1	5.7
30°-40°	3560.1	10.0
40°-50°	5959.0	16.7
50°-60°	8759.2	24.6
60°-70°	8993.5	25.3
70°-80°	4439.8	12.5
80°-90°	293.6	0.8
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°	35591.0	100.0
0°-180°	35591.0	100.0

Coefficient of Utilization

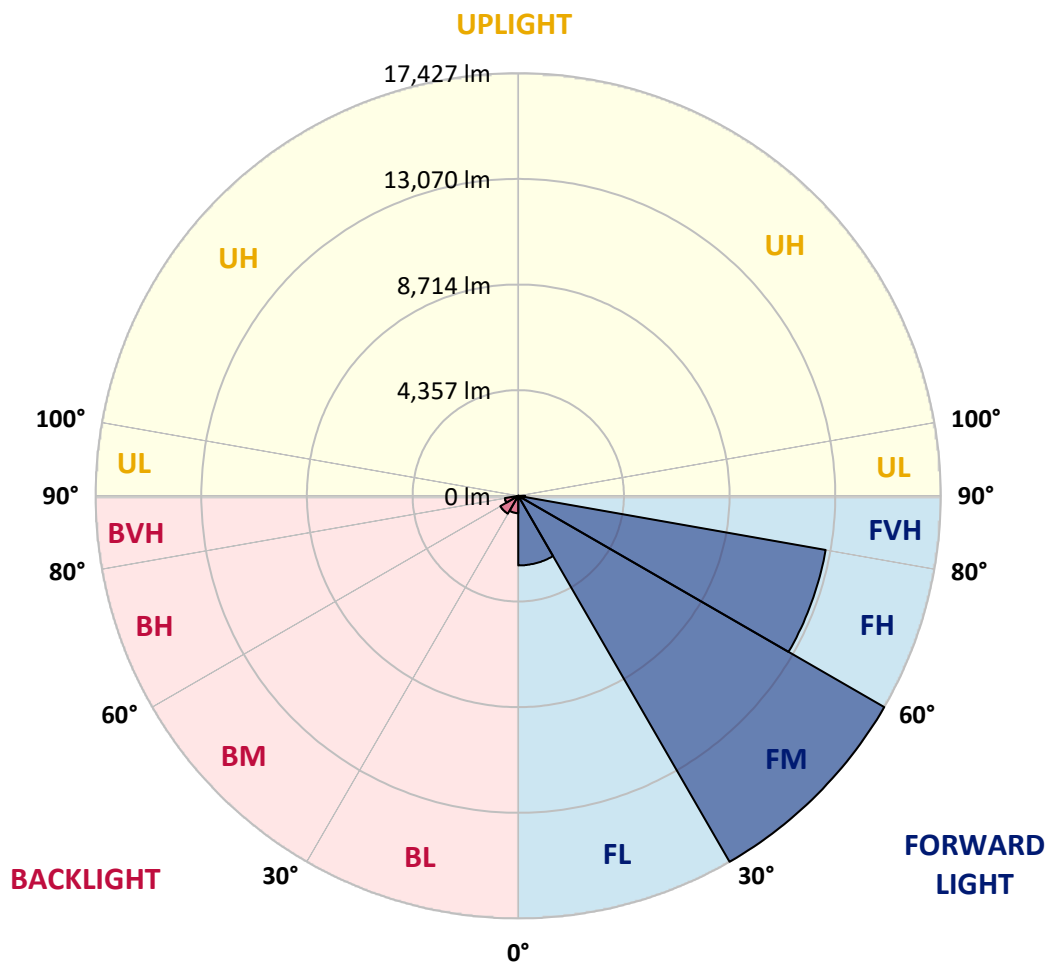


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.9	8.1			
FM (30°-60°)	17427.1	49.0			
FH (60°-80°)	12870.7	36.2			G5
FVH (80°-90°)	286.5	0.8			G3/500
BL (0°-30°)	714.0	2.0	B2/1000		
BM (30°-60°)	851.2	2.4	B1/1000		
BH (60°-80°)	562.6	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4
2.5°	4767.1	4746.8	4738.4	4701.2	4637.0	4587.9	4493.3	4383.4	4363.1	4256.6	4126.4
5°	5385.8	5368.9	5357.1	5304.7	5238.8	5115.4	4942.9	4738.4	4699.5	4496.7	4236.3
7.5°	5816.9	5847.3	5847.3	5813.5	5730.7	5637.7	5426.4	5147.5	5098.5	4787.4	4383.4
10°	6068.8	6106.0	6134.7	6163.5	6151.6	6114.4	5915.0	5600.5	5541.4	5128.9	4554.1
12.5°	6092.5	6129.7	6210.8	6330.8	6447.5	6532.0	6406.9	6102.6	6035.0	5524.5	4757.0
15°	5960.6	5999.5	6124.6	6357.9	6640.2	6887.0	6927.6	6658.8	6589.5	5996.1	5010.6
17.5°	5730.7	5756.1	5935.2	6258.1	6701.0	7154.1	7399.2	7255.5	7191.3	6535.4	5292.9
20°	5560.0	5578.6	5735.8	6082.3	6663.8	7321.4	7845.5	7889.4	7821.8	7113.5	5598.8
22.5°	5852.4	5886.2	5891.3	6055.3	6562.4	7404.3	8237.7	8513.2	8462.5	7727.1	5899.7
25°	6652.0	6690.9	6562.4	6461.0	6648.6	7441.5	8574.1	9152.2	9111.6	8388.1	6202.3
27.5°	7708.6	7749.1	7583.5	7280.9	7100.0	7581.8	8873.3	9801.4	9799.7	9088.0	6528.6
30°	8746.5	8787.1	8618.0	8315.4	7899.6	7979.0	9131.9	10480.9	10491.1	9809.8	6875.1
32.5°	9835.2	9885.9	9711.8	9323.0	8888.5	8665.4	9495.4	11163.9	11221.4	10646.6	7265.6
35°	11072.6	11079.4	10834.2	10426.8	9926.4	9583.3	10078.6	11929.7	12066.6	11682.8	7761.0
37.5°	12286.3	12335.4	12134.2	11491.8	11032.0	10643.2	10945.8	12886.5	13080.9	12949.0	8408.4
40°	13185.7	13288.8	13260.1	12567.0	12130.8	11853.6	12022.6	14024.2	14271.0	14423.1	9224.9
42.5°	13750.3	13828.1	13959.9	13542.4	13146.8	13192.4	13293.9	15349.5	15653.8	16103.4	10163.1
45°	14397.7	14434.9	14544.8	14360.6	14093.5	14553.3	14642.9	16842.2	17161.7	17910.5	11204.4
47.5°	15188.9	15276.8	15307.2	15138.2	15016.5	15756.9	15942.8	18199.6	18647.6	19846.1	12306.6
50°	16196.4	16220.1	16272.5	16162.6	16040.9	16791.5	17109.3	19624.7	20032.1	21788.5	13393.6
52.5°	17182.0	17266.5	17449.0	17379.7	17330.7	17672.2	18148.9	20909.4	21364.2	23408.0	14478.9
55°	17466.0	17538.6	18169.2	18600.3	18999.2	18757.5	19142.9	22060.7	22552.6	24855.0	15523.6
57.5°	16331.6	16478.7	17570.8	18693.2	20348.2	20444.6	20508.8	23242.3	23683.5	25964.0	16610.6
60°	13464.6	13493.3	15285.2	17210.7	20125.1	21917.0	22503.6	24511.8	24882.1	26996.8	17912.2
62.5°	8563.9	8856.4	10822.4	13540.7	17765.2	21704.0	24915.9	26432.2	26567.5	28235.9	19778.5
65°	4079.1	4268.4	5685.1	8366.1	12867.9	18977.2	26581.0	29906.1	29967.0	30692.2	22272.0
67.5°	2258.5	2349.8	3024.3	4503.4	7522.6	13420.7	25908.2	34020.7	34078.2	33200.9	24459.4
69°	1766.5	1844.3	2375.1	3394.5	5100.2	9645.8	23445.2	35226.0	35396.8	33919.3	24537.2
70°	1499.4	1575.5	2045.5	2867.0	4101.1	7453.3	20868.9	34926.8	35107.7	33851.7	23957.4
72.5°	917.9	961.9	1362.5	2018.4	2748.7	3749.5	12869.6	29537.6	29843.6	31052.3	20589.9
75°	618.7	642.4	852.0	1392.9	1966.0	1930.5	6685.8	20819.8	21482.5	24155.1	15207.5
77.5°	442.9	464.9	571.4	901.0	1377.7	1274.6	3027.6	12938.9	13080.9	14487.3	8293.5
80°	251.9	272.2	404.0	535.9	934.8	850.3	1203.6	6180.4	6251.4	6212.5	2769.0
82.5°	131.9	148.8	221.5	353.3	600.1	556.2	500.4	2069.1	2079.3	1729.4	606.9
85°	25.4	30.4	109.9	241.7	309.4	241.7	204.5	485.2	495.3	437.8	150.5
87.5°	0.0	1.7	44.0	54.1	60.9	62.5	65.9	94.7	101.4	136.9	40.6
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°	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4
2.5°	4069.0	4008.1	3891.5	3756.2	3651.4	3548.3	3467.2	3382.6	3352.2	3337.0	3335.3
5°	4109.5	3981.1	3734.3	3480.7	3272.8	3076.7	2936.3	2802.8	2740.3	2711.5	2699.7
7.5°	4177.2	3970.9	3573.7	3186.5	2887.3	2642.2	2447.8	2302.4	2229.7	2199.3	2187.5
10°	4256.6	3957.4	3386.0	2875.5	2493.4	2239.9	2047.2	1903.5	1824.0	1790.2	1773.3
12.5°	4349.6	3933.7	3169.6	2561.1	2157.0	1903.5	1670.2	1492.7	1401.4	1362.5	1343.9
15°	4464.5	3910.1	2943.1	2265.2	1861.2	1551.9	1296.6	1176.6	1158.0	1151.2	1152.9
17.5°	4577.8	3872.9	2696.3	1972.8	1550.2	1212.1	1081.9	1075.1	1078.5	1078.5	1078.5
20°	4679.2	3788.3	2427.5	1722.6	1254.3	1022.7	995.7	983.9	975.4	968.6	960.2
22.5°	4758.7	3675.1	2168.9	1474.1	1024.4	936.5	894.3	857.1	826.6	806.4	796.2
25°	4812.8	3524.6	1932.2	1235.7	921.3	852.0	775.9	713.4	666.0	637.3	625.5
27.5°	4853.3	3362.3	1720.9	1034.6	850.3	754.0	654.2	579.8	530.8	505.5	495.3
30°	4882.1	3178.1	1534.9	909.5	770.9	650.8	544.3	471.6	436.1	422.6	415.9
32.5°	4909.1	2973.5	1359.1	850.3	696.5	556.2	456.4	400.6	378.7	361.8	356.7
35°	4976.7	2784.2	1191.8	787.8	620.4	475.0	392.2	351.6	329.6	319.5	316.1
37.5°	5137.3	2643.9	1031.2	723.5	544.3	410.8	343.2	314.4	294.1	284.0	280.6
40°	5396.0	2572.9	895.9	654.2	470.0	361.8	311.0	284.0	262.0	246.8	243.4
42.5°	5776.3	2583.0	801.3	584.9	410.8	322.9	280.6	248.5	224.8	211.3	207.9
45°	6237.8	2657.4	735.4	517.3	361.8	292.5	246.8	213.0	191.0	179.2	175.8
47.5°	6738.2	2777.4	681.3	456.4	322.9	263.7	213.0	177.5	158.9	148.8	147.1
50°	7265.6	2894.1	625.5	397.3	289.1	235.0	179.2	147.1	131.9	123.4	120.0
52.5°	7799.8	3029.3	574.8	343.2	260.3	201.2	148.8	120.0	108.2	101.4	98.0
55°	8374.6	3130.8	525.7	300.9	231.6	170.7	123.4	99.7	89.6	81.1	79.5
57.5°	9050.8	3288.0	475.0	260.3	197.8	142.0	101.4	79.5	71.0	62.5	60.9
60°	9963.6	3472.2	420.9	229.9	162.3	116.6	82.8	64.2	54.1	47.3	45.6
62.5°	11167.3	3676.8	353.3	201.2	131.9	94.7	65.9	50.7	38.9	30.4	30.4
65°	12693.8	4009.8	289.1	169.0	108.2	77.8	50.7	37.2	22.0	13.5	13.5
67.5°	13584.6	4067.3	233.3	138.6	87.9	65.9	42.3	25.4	6.8	1.7	0.0
69°	13298.9	3734.3	197.8	118.3	76.1	62.5	38.9	18.6	3.4	0.0	0.0
70°	12761.4	3414.8	174.1	104.8	69.3	59.2	37.2	13.5	3.4	0.0	0.0
72.5°	10545.2	2430.9	131.9	77.8	50.7	52.4	33.8	8.5	3.4	0.0	0.0
75°	7681.5	1477.5	94.7	54.1	32.1	38.9	23.7	3.4	1.7	0.0	0.0
77.5°	4273.5	696.5	59.2	30.4	20.3	23.7	11.8	0.0	0.0	0.0	0.0
80°	1387.9	189.3	27.0	16.9	11.8	13.5	5.1	0.0	0.0	0.0	0.0
82.5°	257.0	54.1	15.2	8.5	3.4	3.4	0.0	0.0	0.0	0.0	0.0
85°	55.8	22.0	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	6.8	1.7	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)