

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: P322899

Luminaire Tested: **GAN-SA5D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322899
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-SA5D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 28108 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

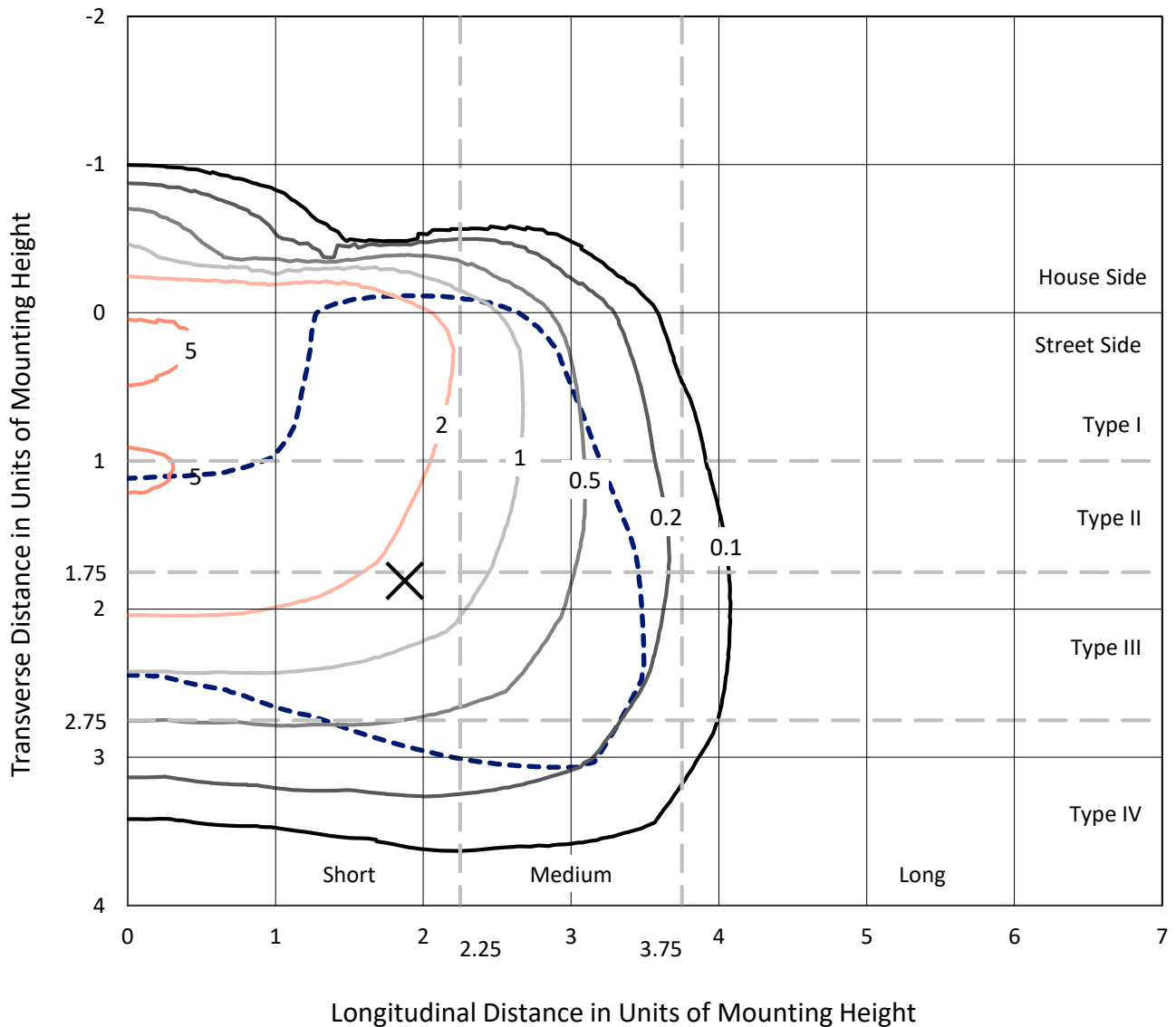
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

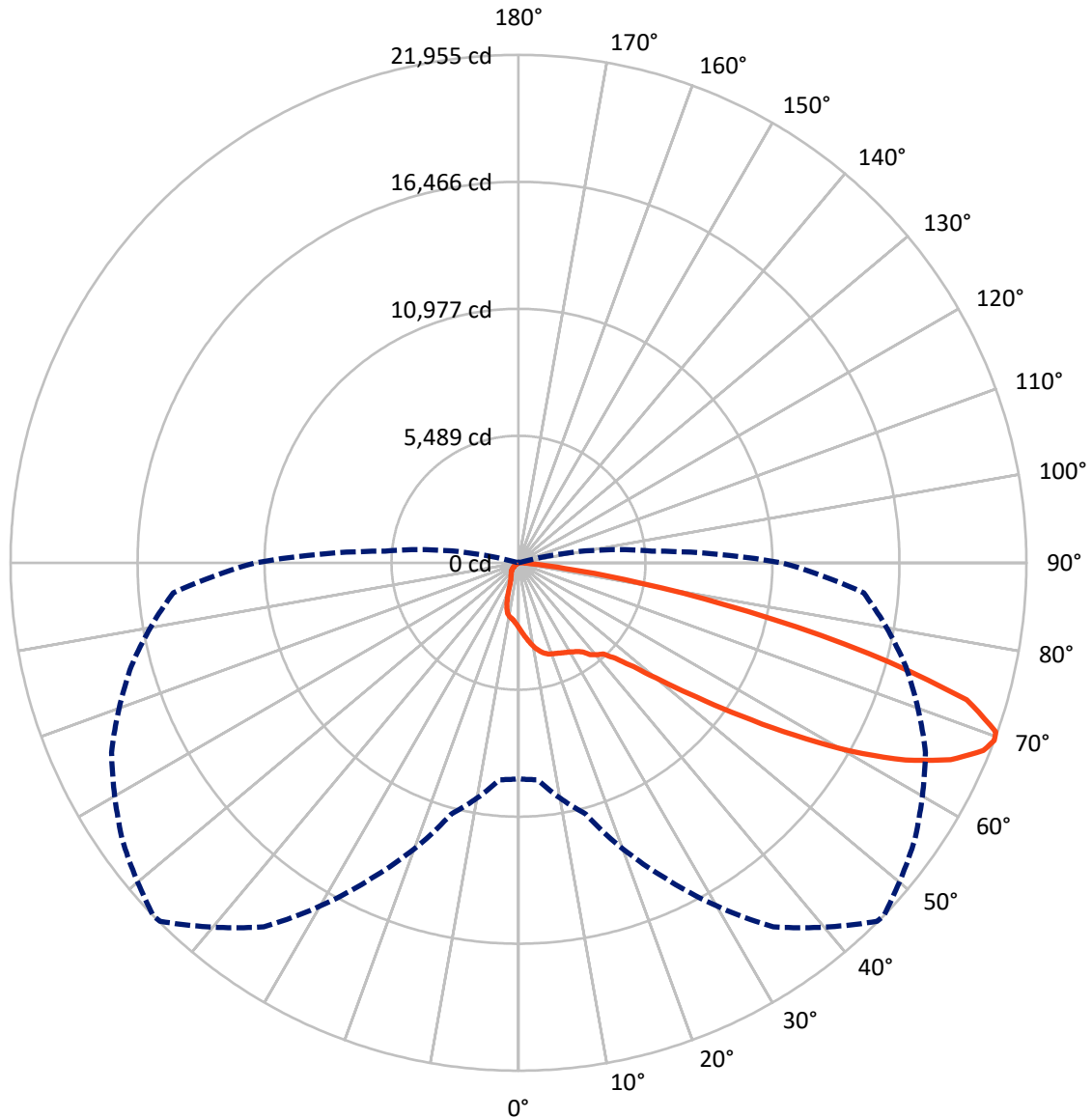
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2884.6	0.0	2884.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25223.4	0.0	25223.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	28108.0	0.0	28108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.0
10°-20°	850.4	3.0
20°-30°	1337.4	4.8
30°-40°	1917.9	6.8
40°-50°	3314.8	11.8
50°-60°	6548.8	23.3
60°-70°	9152.5	32.6
70°-80°	4421.6	15.7
80°-90°	284.2	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°	28108.0	100.0
0°-180°	28108.0	100.0

Coefficient of Utilization

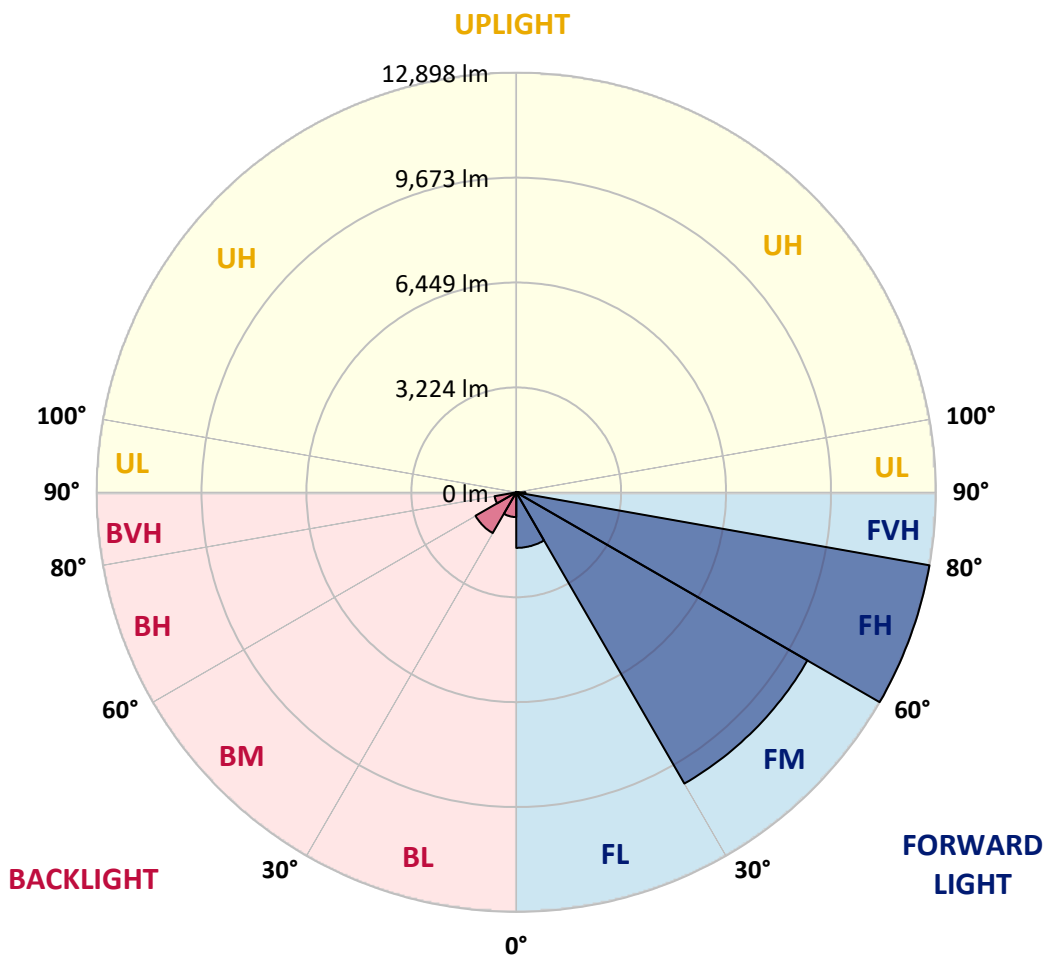


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.9	6.1			
FM (30°-60°)	10335.9	36.8			
FH (60°-80°)	12897.7	45.9			G5
FVH (80°-90°)	281.8	1.0			G3/500
BL (0°-30°)	760.3	2.7	B2/1000		
BM (30°-60°)	1445.6	5.1	B2/2500		
BH (60°-80°)	676.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	3128.7	3124.7	3106.3	3098.3	3053.5	3027.2	3016.6	2983.7	2936.2	2888.8	2836.1
5°	3484.5	3483.2	3448.9	3416.0	3331.6	3252.5	3238.0	3161.6	3054.9	2954.7	2854.5
7.5°	3848.2	3831.1	3796.8	3733.6	3611.0	3484.5	3472.6	3364.6	3213.0	3068.0	2924.4
10°	4156.6	4146.1	4101.3	4005.0	3861.4	3717.7	3703.3	3570.1	3398.8	3220.9	3037.7
12.5°	4396.5	4388.6	4329.2	4209.3	4056.4	3907.5	3887.8	3769.1	3586.0	3387.0	3170.8
15°	4542.7	4538.8	4466.3	4338.5	4188.2	4059.1	4041.9	3937.8	3767.8	3559.6	3315.8
17.5°	4577.0	4578.3	4503.2	4374.1	4250.2	4157.9	4144.7	4065.7	3923.3	3716.4	3460.8
20°	4500.6	4516.4	4449.2	4337.2	4260.7	4212.0	4201.4	4154.0	4034.0	3839.0	3576.7
22.5°	4392.5	4400.4	4354.3	4279.2	4247.5	4256.8	4251.5	4225.1	4123.7	3944.4	3691.4
25°	4326.6	4326.6	4298.9	4235.7	4256.8	4313.4	4314.7	4309.5	4229.1	4073.6	3831.1
27.5°	4324.0	4316.1	4284.4	4237.0	4295.0	4382.0	4387.2	4422.8	4372.7	4230.4	4005.0
30°	4429.4	4420.2	4353.0	4291.0	4364.8	4458.4	4471.6	4549.3	4524.3	4400.4	4198.8
32.5°	4675.8	4642.9	4494.0	4392.5	4447.9	4559.9	4577.0	4700.9	4740.4	4610.0	4385.9
35°	5013.2	4909.1	4694.3	4584.9	4590.2	4707.5	4723.3	4905.2	5022.5	4802.4	4530.9
37.5°	5478.4	5427.0	5077.8	4785.2	4809.0	4986.9	5033.0	5230.7	5197.7	4907.8	4695.6
40°	6498.5	6418.1	6046.4	5346.7	5018.5	5213.5	5228.0	5333.5	5336.1	5146.3	5038.3
42.5°	7887.5	7854.6	7463.2	6365.4	5431.0	5365.1	5391.5	5569.4	5768.4	5649.8	5644.5
45°	9425.5	9408.4	8993.2	7717.5	6265.2	5861.9	5894.9	6133.4	6514.3	6540.7	6708.0
47.5°	10663.0	10655.1	10416.5	9226.5	7542.2	6704.1	6714.6	6967.6	7637.1	7967.9	8235.5
50°	11791.1	11829.3	11640.9	10859.4	9281.9	8023.3	7998.2	8166.9	9242.3	9784.0	10116.1
52.5°	13359.4	13413.4	12884.9	12382.8	11107.1	9660.1	9640.3	9816.9	11171.7	11577.6	11636.9
55°	14744.5	14652.2	14234.5	14089.5	13333.0	11681.7	11676.4	11832.0	13037.8	13210.5	13319.8
57.5°	15356.0	15320.4	15522.0	15854.1	15664.4	14071.0	14059.2	13940.6	14707.6	14726.0	15062.1
60°	15742.1	15785.6	16403.7	17427.7	17900.8	16642.2	16565.8	15842.3	16302.2	16261.4	16621.1
62.5°	15452.2	15537.8	16650.1	18356.8	19574.5	18886.6	18778.5	17584.5	17664.9	17523.9	17858.6
65°	13912.9	14046.0	15868.6	18181.5	20404.8	20640.7	20531.3	19122.5	18746.9	18514.9	18329.1
67.5°	11296.9	11376.0	13279.0	16656.7	20030.5	21687.1	21664.7	20470.7	19564.0	18347.6	16905.8
69°	9335.9	9413.6	11245.5	15051.5	19206.8	21911.1	21954.6	20902.9	19408.5	17330.2	14979.1
70°	7907.3	7990.3	9697.0	13675.7	18251.4	21807.0	21884.8	20862.1	18963.0	16152.0	13288.2
72.5°	4147.4	4218.5	5970.0	9421.5	14878.9	20023.9	20259.8	19098.8	16074.2	11730.5	7857.2
75°	1303.4	1344.2	2331.3	4924.9	10187.2	15569.5	15623.5	14981.7	11414.2	6452.4	3272.3
77.5°	496.8	485.0	776.2	1814.7	5150.3	9803.7	10134.5	9362.2	5989.8	2281.3	755.1
80°	267.5	268.8	403.3	751.2	2203.5	5038.3	5317.7	4537.5	2128.4	711.7	174.0
82.5°	116.0	121.2	226.7	398.0	1012.1	1858.2	1997.9	1663.2	813.1	478.4	64.6
85°	25.0	27.7	109.4	216.1	412.5	521.9	546.9	539.0	517.9	371.6	25.0
87.5°	0.0	0.0	48.8	77.8	104.1	118.6	104.1	135.7	286.0	250.4	13.2
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°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	2819.0	2795.2	2754.4	2709.6	2677.9	2645.0	2618.6	2606.8	2593.6	2584.4	2596.2
5°	2813.7	2767.6	2688.5	2612.0	2556.7	2511.9	2475.0	2460.5	2446.0	2435.4	2434.1
7.5°	2859.8	2795.2	2674.0	2562.0	2476.3	2415.7	2365.6	2344.5	2327.4	2319.5	2312.9
10°	2948.1	2865.1	2703.0	2556.7	2446.0	2343.2	2235.1	2152.1	2098.1	2073.0	2063.8
12.5°	3062.8	2958.6	2758.3	2584.4	2423.6	2225.9	1996.6	1798.9	1671.1	1628.9	1603.9
15°	3197.2	3068.0	2830.8	2620.0	2341.9	1980.8	1592.0	1333.7	1215.1	1191.4	1165.0
17.5°	3326.3	3184.0	2917.8	2626.5	2162.6	1582.8	1166.3	991.0	944.9	960.7	964.7
20°	3439.7	3298.7	3003.5	2568.6	1837.1	1187.4	902.8	859.3	876.4	906.7	912.0
22.5°	3554.3	3409.4	3082.5	2415.7	1420.7	901.4	813.1	823.7	840.8	871.1	876.4
25°	3694.0	3543.8	3156.3	2135.0	1066.2	767.0	772.3	788.1	805.2	832.9	835.5
27.5°	3854.8	3713.8	3205.1	1769.9	790.7	705.1	722.2	745.9	763.1	789.4	794.7
30°	4068.3	3937.8	3220.9	1391.7	662.9	649.7	657.6	686.6	711.7	735.4	739.3
32.5°	4268.6	4159.2	3168.2	1050.4	614.1	598.3	598.3	615.5	644.4	666.8	672.1
35°	4453.1	4382.0	2999.5	768.3	577.2	550.9	537.7	537.7	556.1	574.6	579.9
37.5°	4696.9	4694.3	2726.7	612.8	541.7	511.3	483.7	462.6	456.0	459.9	462.6
40°	5114.7	5118.7	2370.9	549.6	511.3	470.5	428.3	390.1	354.5	342.6	341.3
42.5°	5767.1	5707.8	1997.9	519.2	485.0	428.3	365.1	313.7	258.3	241.2	239.9
45°	6802.9	6451.0	1602.5	491.6	457.3	380.9	301.8	231.9	187.1	174.0	174.0
47.5°	8311.9	7427.6	1241.4	461.3	420.4	326.8	228.0	167.4	137.1	130.5	131.8
50°	9872.3	8384.4	951.5	423.0	375.6	270.2	168.7	121.2	104.1	104.1	105.4
52.5°	11256.0	9085.5	742.0	382.2	320.2	212.2	127.8	94.9	87.0	85.7	87.0
55°	12551.5	9537.5	568.0	334.7	254.4	158.1	97.5	77.8	72.5	69.8	68.5
57.5°	13800.9	9761.6	425.7	270.2	184.5	114.7	77.8	65.9	60.6	56.7	55.4
60°	14632.5	9579.7	292.6	199.0	127.8	83.0	64.6	56.7	50.1	46.1	44.8
62.5°	15101.6	9082.9	188.5	143.6	90.9	61.9	51.4	47.4	38.2	34.3	34.3
65°	14911.8	8263.1	131.8	102.8	65.9	46.1	38.2	38.2	27.7	22.4	21.1
67.5°	13214.4	6980.8	100.2	76.4	47.4	34.3	29.0	32.9	17.1	10.5	10.5
69°	11369.4	5785.5	85.7	63.3	39.5	27.7	25.0	30.3	11.9	7.9	6.6
70°	9881.5	4990.8	77.8	55.4	32.9	23.7	22.4	29.0	11.9	6.6	5.3
72.5°	5912.0	2783.4	59.3	39.5	21.1	18.5	18.5	32.9	11.9	6.6	5.3
75°	2389.3	980.5	43.5	27.7	15.8	15.8	22.4	42.2	10.5	5.3	4.0
77.5°	541.7	214.8	25.0	17.1	10.5	15.8	26.4	32.9	6.6	2.6	0.0
80°	131.8	52.7	15.8	10.5	6.6	11.9	19.8	18.5	1.3	0.0	0.0
82.5°	43.5	18.5	6.6	5.3	1.3	4.0	9.2	5.3	0.0	0.0	0.0
85°	18.5	10.5	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.9	4.0	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)