

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: P322882

Luminaire Tested: **GAN-SA8B-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322882
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-SA8B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 33195 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 334
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

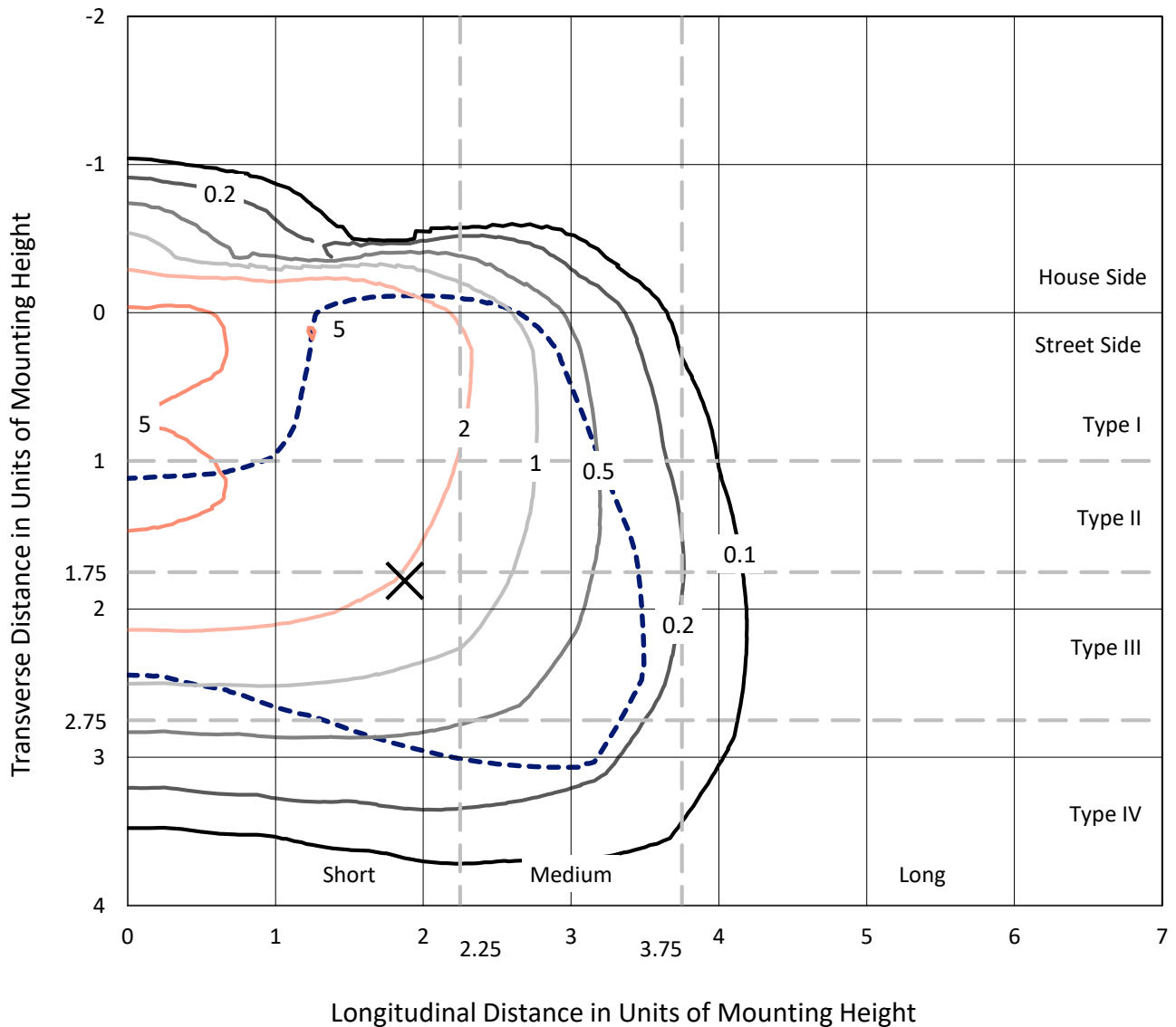




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Iso-Footcandle Lines of Horizontal Illumination

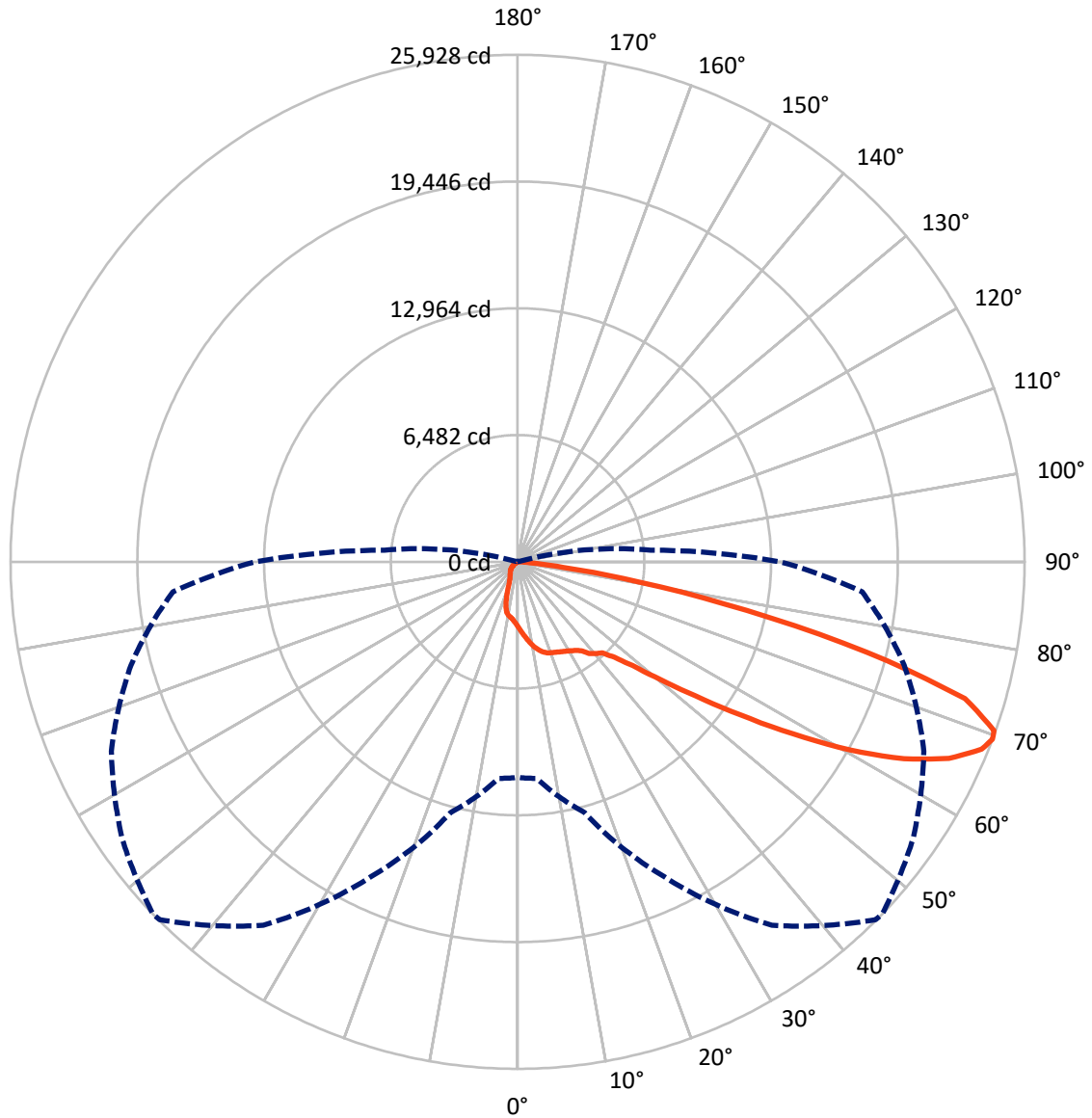
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3406.7	0.0	3406.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29788.3	0.0	29788.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	33195.0	0.0	33195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.0
10°-20°	1004.3	3.0
20°-30°	1579.5	4.8
30°-40°	2265.0	6.8
40°-50°	3914.8	11.8
50°-60°	7734.0	23.3
60°-70°	10808.9	32.6
70°-80°	5221.9	15.7
80°-90°	335.6	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°	33195.0	100.0
0°-180°	33195.0	100.0

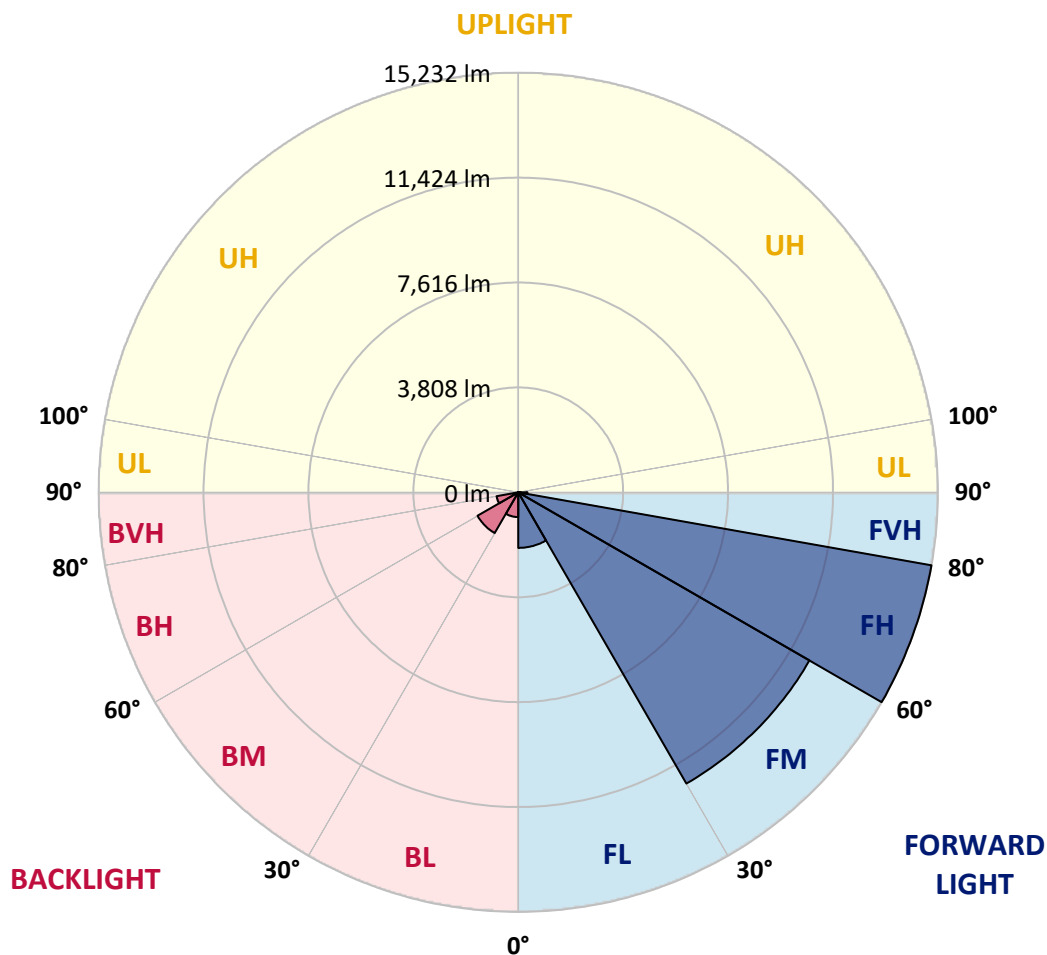


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.0	6.1			
FM (30°-60°)	12206.5	36.8			
FH (60°-80°)	15232.0	45.9			G5
FVH (80°-90°)	332.8	1.0			G3/500
BL (0°-30°)	897.9	2.7	B2/1000		
BM (30°-60°)	1707.2	5.1	B2/2500		
BH (60°-80°)	798.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0
2.5°	3694.9	3690.2	3668.4	3659.1	3606.2	3575.0	3562.6	3523.7	3467.6	3411.6	3349.4
5°	4115.1	4113.6	4073.1	4034.2	3934.6	3841.2	3824.1	3733.8	3607.7	3489.4	3371.2
7.5°	4544.7	4524.4	4484.0	4409.3	4264.5	4115.1	4101.1	3973.5	3794.5	3623.3	3453.6
10°	4908.9	4896.4	4843.5	4729.9	4560.2	4390.6	4373.5	4216.3	4013.9	3803.8	3587.5
12.5°	5192.1	5182.8	5112.8	4971.1	4790.6	4614.7	4591.4	4451.3	4234.9	3999.9	3744.7
15°	5364.9	5360.2	5274.6	5123.7	4946.2	4793.7	4773.5	4650.5	4449.7	4203.8	3915.9
17.5°	5405.4	5406.9	5318.2	5165.7	5019.4	4910.4	4894.9	4801.5	4633.4	4389.0	4087.1
20°	5315.1	5333.8	5254.4	5122.1	5031.8	4974.2	4961.8	4905.8	4764.1	4533.8	4224.1
22.5°	5187.5	5196.8	5142.3	5053.6	5016.3	5027.2	5020.9	4989.8	4870.0	4658.3	4359.5
25°	5109.6	5109.6	5077.0	5002.3	5027.2	5094.1	5095.6	5089.4	4994.5	4810.8	4524.4
27.5°	5106.5	5097.2	5059.8	5003.8	5072.3	5175.0	5181.2	5223.3	5164.1	4996.0	4729.9
30°	5231.0	5220.1	5140.8	5067.6	5154.8	5265.3	5280.8	5372.7	5343.1	5196.8	4958.7
32.5°	5522.1	5483.2	5307.3	5187.5	5252.8	5385.1	5405.4	5551.7	5598.4	5444.3	5179.7
35°	5920.5	5797.6	5543.9	5414.7	5420.9	5559.4	5578.1	5792.9	5931.4	5671.5	5350.9
37.5°	6469.9	6409.2	5996.8	5651.3	5679.3	5889.4	5943.9	6177.3	6138.4	5796.0	5545.4
40°	7674.6	7579.6	7140.7	6314.3	5926.8	6157.1	6174.2	6298.7	6301.8	6077.7	5950.1
42.5°	9315.0	9276.1	8813.9	7517.4	6413.9	6336.1	6367.2	6577.3	6812.3	6672.3	6666.0
45°	11131.3	11111.1	10620.8	9114.2	7399.1	6922.8	6961.8	7243.5	7693.3	7724.4	7922.0
47.5°	12592.8	12583.4	12301.7	10896.3	8907.2	7917.4	7929.8	8228.7	9019.3	9410.0	9725.9
50°	13925.1	13970.2	13747.6	12824.7	10961.7	9475.3	9445.8	9645.0	10915.0	11554.7	11946.9
52.5°	15777.2	15841.0	15216.9	14623.9	13117.3	11408.4	11385.0	11593.6	13193.6	13672.9	13743.0
55°	17412.9	17304.0	16810.6	16639.4	15746.0	13795.9	13789.7	13973.3	15397.4	15601.3	15730.5
57.5°	18135.1	18093.1	18331.2	18723.4	18499.3	16617.6	16603.6	16463.5	17369.4	17391.2	17788.0
60°	18591.1	18642.5	19372.4	20581.8	21140.5	19654.1	19563.9	18709.4	19252.6	19204.4	19629.2
62.5°	18248.7	18349.9	19663.5	21679.0	23117.1	22304.7	22177.1	20767.0	20861.9	20695.4	21090.7
65°	16430.9	16588.1	18740.5	21472.0	24097.7	24376.2	24247.1	22583.3	22139.7	21865.8	21646.3
67.5°	13341.4	13434.8	15682.2	19671.3	23655.6	25612.0	25585.6	24175.5	23104.7	21668.1	19965.4
69°	11025.5	11117.3	13280.7	17775.6	22682.9	25876.6	25928.0	24686.0	22921.0	20466.6	17690.0
70°	9338.4	9436.4	11452.0	16150.7	21554.5	25753.7	25845.5	24637.7	22395.0	19075.2	15693.1
72.5°	4898.0	4982.0	7050.5	11126.7	17571.7	23647.9	23926.5	22555.3	18983.3	13853.5	9279.2
75°	1539.3	1587.5	2753.3	5816.2	12030.9	18387.2	18451.1	17693.1	13479.9	7620.1	3864.5
77.5°	586.8	572.8	916.7	2143.2	6082.4	11578.0	11968.7	11056.6	7073.8	2694.1	891.8
80°	315.9	317.5	476.3	887.1	2602.3	5950.1	6280.1	5358.7	2513.6	840.5	205.4
82.5°	137.0	143.2	267.7	470.0	1195.3	2194.5	2359.5	1964.2	960.3	565.0	76.3
85°	29.6	32.7	129.2	255.2	487.2	616.3	645.9	636.6	611.7	438.9	29.6
87.5°	0.0	0.0	57.6	91.8	123.0	140.1	123.0	160.3	337.7	295.7	15.6
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°	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0	3326.0
2.5°	3329.1	3301.1	3252.9	3199.9	3162.6	3123.7	3092.6	3078.5	3063.0	3052.1	3066.1
5°	3322.9	3268.4	3175.0	3084.8	3019.4	2966.5	2922.9	2905.8	2888.7	2876.2	2874.7
7.5°	3377.4	3301.1	3157.9	3025.6	2924.5	2852.9	2793.7	2768.8	2748.6	2739.3	2731.5
10°	3481.7	3383.6	3192.2	3019.4	2888.7	2767.3	2639.6	2541.6	2477.8	2448.2	2437.3
12.5°	3617.1	3494.1	3257.5	3052.1	2862.2	2628.8	2357.9	2124.5	1973.5	1923.7	1894.1
15°	3775.8	3623.3	3343.1	3094.1	2765.7	2339.3	1880.1	1575.1	1435.0	1407.0	1375.9
17.5°	3928.3	3760.2	3445.9	3101.9	2554.0	1869.2	1377.4	1170.4	1115.9	1134.6	1139.3
20°	4062.2	3895.7	3547.0	3033.4	2169.6	1402.3	1066.1	1014.8	1035.0	1070.8	1077.0
22.5°	4197.6	4026.4	3640.4	2852.9	1677.8	1064.6	960.3	972.7	993.0	1028.8	1035.0
25°	4362.6	4185.1	3727.6	2521.4	1259.1	905.8	912.0	930.7	951.0	983.6	986.8
27.5°	4552.5	4385.9	3785.2	2090.2	933.8	832.7	852.9	880.9	901.2	932.3	938.5
30°	4804.6	4650.5	3803.8	1643.6	782.9	767.3	776.6	810.9	840.5	868.5	873.1
32.5°	5041.2	4912.0	3741.6	1240.4	725.3	706.6	706.6	726.8	761.1	787.5	793.8
35°	5259.1	5175.0	3542.4	907.4	681.7	650.6	635.0	635.0	656.8	678.6	684.8
37.5°	5547.0	5543.9	3220.2	723.7	639.7	603.9	571.2	546.3	538.5	543.2	546.3
40°	6040.4	6045.0	2800.0	649.0	603.9	555.6	505.8	460.7	418.7	404.7	403.1
42.5°	6810.8	6740.7	2359.5	613.2	572.8	505.8	431.1	370.4	305.1	284.8	283.3
45°	8034.1	7618.6	1892.6	580.5	540.1	449.8	356.4	273.9	221.0	205.4	205.4
47.5°	9816.2	8771.8	1466.1	544.7	496.5	386.0	269.3	197.7	161.9	154.1	155.6
50°	11659.0	9901.8	1123.7	499.6	443.6	319.1	199.2	143.2	123.0	123.0	124.5
52.5°	13293.2	10729.8	876.3	451.4	378.2	250.6	151.0	112.1	102.7	101.2	102.7
55°	14823.1	11263.6	670.8	395.3	300.4	186.8	115.2	91.8	85.6	82.5	80.9
57.5°	16298.6	11528.2	502.7	319.1	217.9	135.4	91.8	77.8	71.6	66.9	65.4
60°	17280.6	11313.4	345.5	235.0	151.0	98.1	76.3	66.9	59.1	54.5	52.9
62.5°	17834.7	10726.7	222.6	169.6	107.4	73.2	60.7	56.0	45.1	40.5	40.5
65°	17610.6	9758.6	155.6	121.4	77.8	54.5	45.1	45.1	32.7	26.5	24.9
67.5°	15606.0	8244.2	118.3	90.3	56.0	40.5	34.2	38.9	20.2	12.5	12.5
69°	13427.0	6832.6	101.2	74.7	46.7	32.7	29.6	35.8	14.0	9.3	7.8
70°	11669.8	5894.1	91.8	65.4	38.9	28.0	26.5	34.2	14.0	7.8	6.2
72.5°	6982.0	3287.1	70.0	46.7	24.9	21.8	21.8	38.9	14.0	7.8	6.2
75°	2821.7	1158.0	51.4	32.7	18.7	18.7	26.5	49.8	12.5	6.2	4.7
77.5°	639.7	253.7	29.6	20.2	12.5	18.7	31.1	38.9	7.8	3.1	0.0
80°	155.6	62.3	18.7	12.5	7.8	14.0	23.3	21.8	1.6	0.0	0.0
82.5°	51.4	21.8	7.8	6.2	1.6	4.7	10.9	6.2	0.0	0.0	0.0
85°	21.8	12.5	3.1	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.0	4.7	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)