

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: P191643

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24794 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

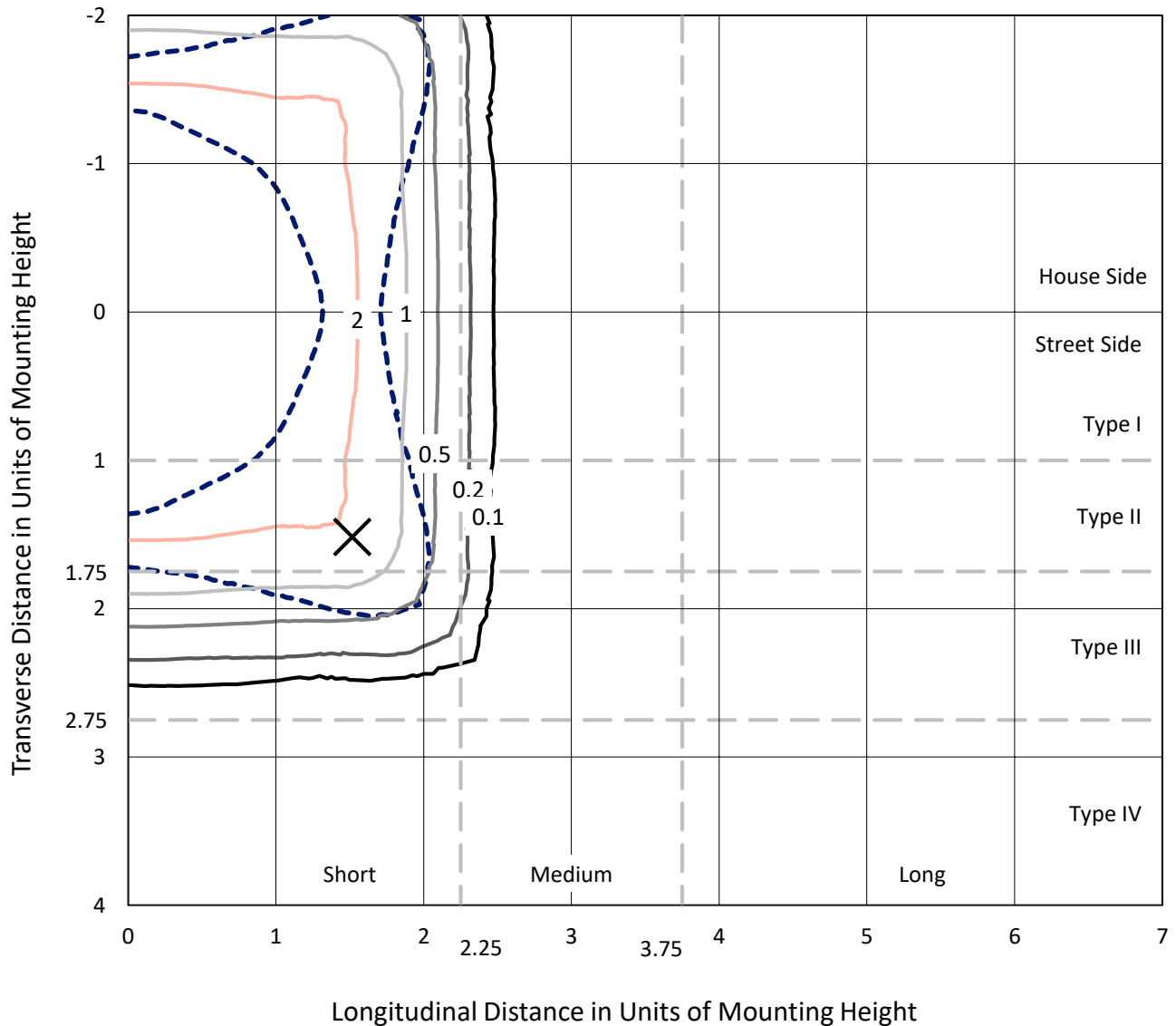


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

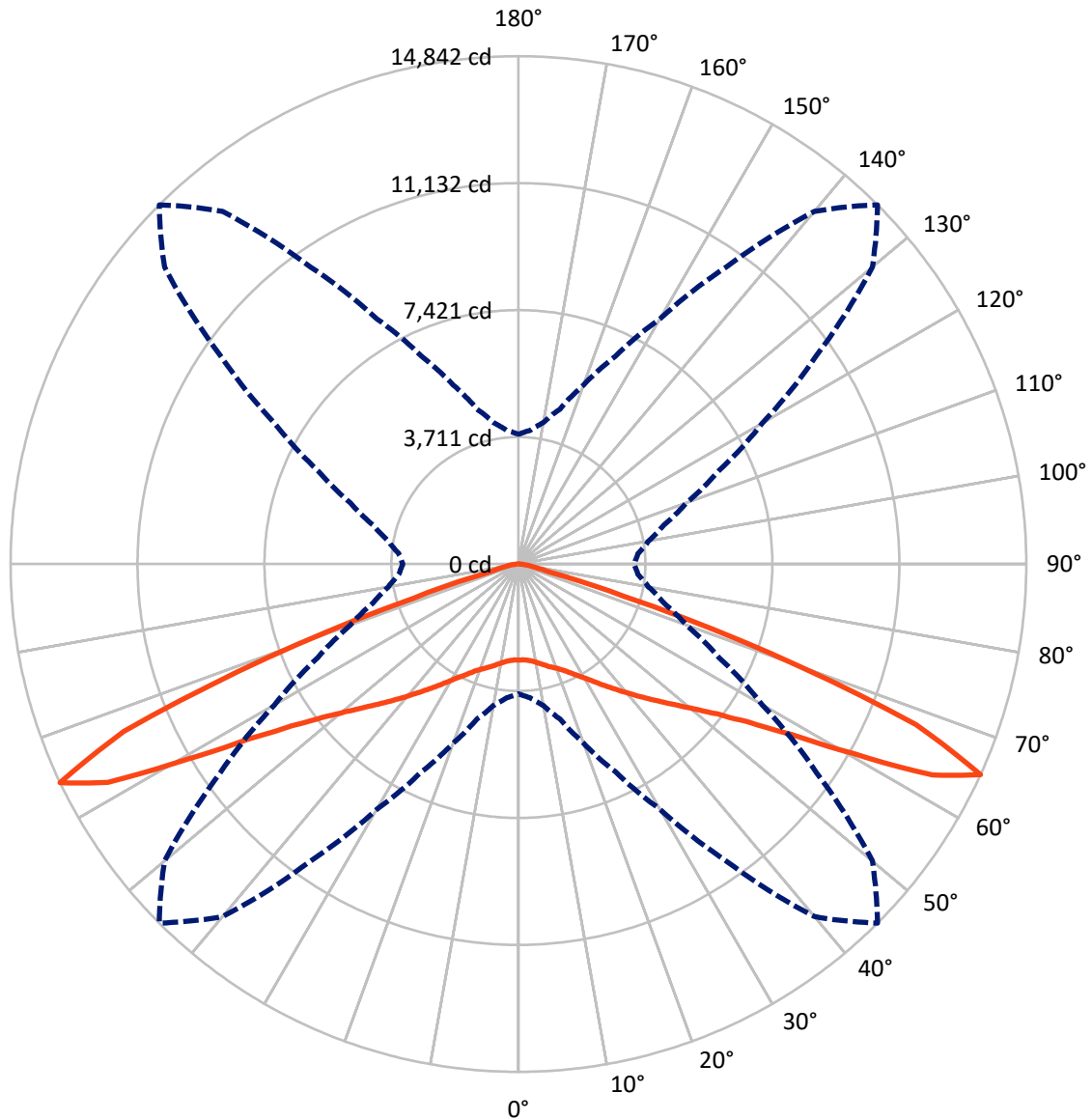


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12397.0	0.0	12397.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12397.0	0.0	12397.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24794.0	0.0	24794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	1.1
10°-20°	877.0	3.5
20°-30°	1639.8	6.6
30°-40°	2773.3	11.2
40°-50°	4534.7	18.3
50°-60°	7210.9	29.1
60°-70°	6518.1	26.3
70°-80°	824.9	3.3
80°-90°	141.9	0.6
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°	24794.0	100.0
0°-180°	24794.0	100.0



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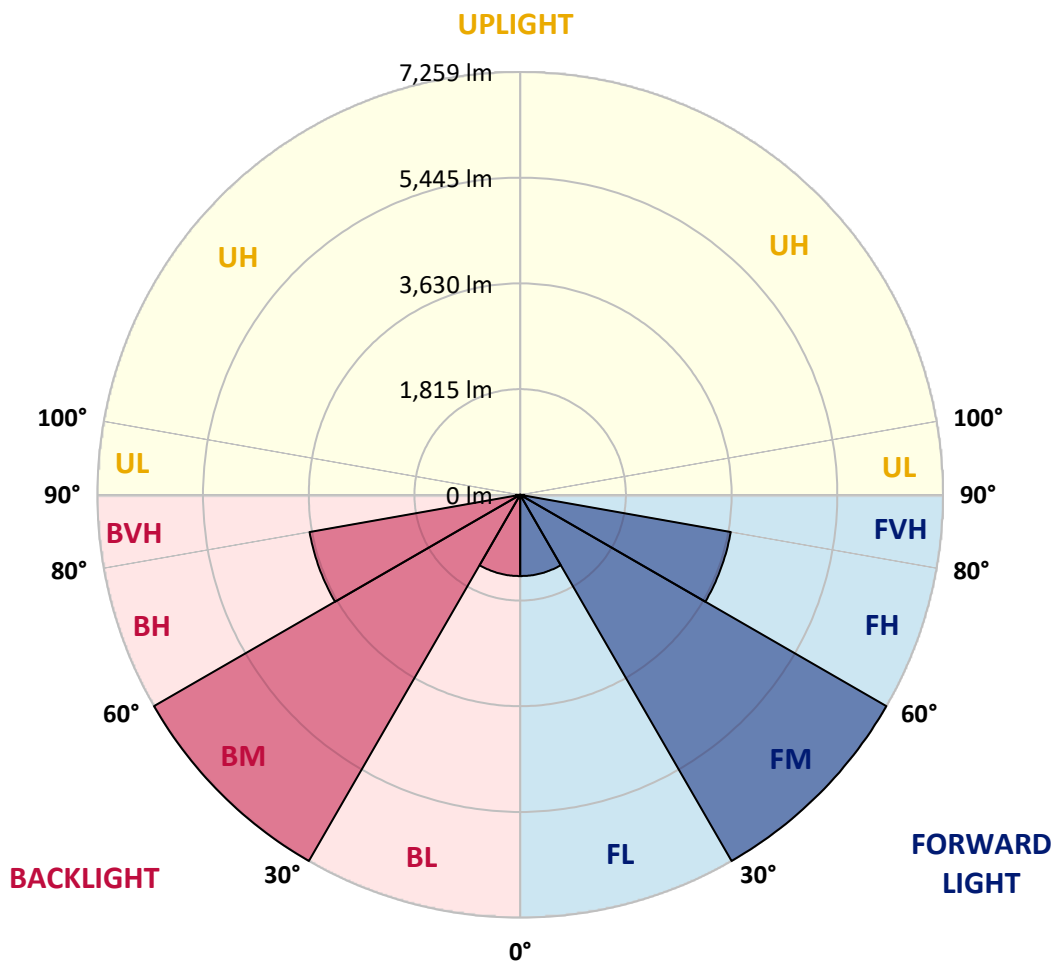
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1395.1	5.6			
FM	(30°-60°)	7259.4	29.3			
FH	(60°-80°)	3671.5	14.8			G2/5000
FVH	(80°-90°)	70.9	0.3			G1/100
BL	(0°-30°)	1395.1	5.6	B3/2500		
BM	(30°-60°)	7259.4	29.3	B4/8500		
BH	(60°-80°)	3671.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	70.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	2807.8	2810.1	2812.4	2810.1	2812.4	2808.9	2806.6	2810.1	2806.6	2803.1	2805.5
5°	2832.2	2833.3	2833.3	2829.8	2833.3	2831.0	2827.5	2832.2	2828.7	2825.2	2827.5
7.5°	2872.8	2877.4	2874.0	2870.5	2872.8	2870.5	2868.2	2869.3	2868.2	2864.7	2865.8
10°	2927.4	2930.9	2928.5	2927.4	2929.7	2928.5	2926.2	2925.1	2926.2	2922.7	2922.7
12.5°	2993.6	2992.4	2991.2	2992.4	2995.9	2995.9	2994.7	2995.9	2998.2	2999.4	2997.1
15°	3058.6	3060.9	3060.9	3060.9	3067.9	3073.7	3077.2	3079.5	3084.1	3085.3	3080.7
17.5°	3139.9	3139.9	3138.7	3139.9	3146.8	3156.1	3159.6	3164.3	3168.9	3172.4	3166.6
20°	3230.5	3232.8	3232.8	3235.1	3244.4	3254.8	3254.8	3257.2	3254.8	3257.2	3253.7
22.5°	3340.8	3347.7	3347.7	3348.9	3358.2	3371.0	3367.5	3371.0	3365.2	3369.8	3365.2
25°	3484.8	3495.2	3492.9	3492.9	3499.9	3508.0	3509.1	3516.1	3514.9	3520.8	3517.3
27.5°	3647.3	3663.6	3668.2	3667.1	3671.7	3679.8	3682.2	3690.3	3685.6	3690.3	3688.0
30°	3842.4	3849.4	3858.7	3862.1	3868.0	3876.1	3876.1	3877.2	3871.4	3878.4	3881.9
32.5°	4044.5	4057.2	4066.5	4087.4	4097.9	4103.7	4102.5	4104.8	4099.0	4108.3	4115.3
35°	4311.5	4320.8	4335.9	4352.2	4366.1	4364.9	4361.5	4362.6	4362.6	4370.7	4377.7
37.5°	4633.2	4635.5	4655.2	4678.5	4685.4	4678.5	4657.6	4652.9	4642.5	4652.9	4664.5
40°	4973.4	4981.5	5021.0	5036.1	5039.6	5026.8	4996.6	4979.2	4956.0	4968.8	4985.0
42.5°	5329.9	5346.2	5382.2	5408.9	5420.5	5412.3	5370.5	5343.8	5313.6	5320.6	5336.9
45°	5724.7	5744.4	5795.5	5821.1	5843.1	5830.4	5789.7	5749.1	5701.5	5705.0	5730.5
47.5°	6166.0	6185.7	6251.9	6294.9	6306.5	6304.1	6258.9	6203.1	6138.1	6135.8	6157.8
50°	6660.6	6680.4	6762.8	6829.0	6862.7	6859.2	6805.8	6726.8	6647.9	6649.0	6676.9
52.5°	7143.7	7168.1	7254.0	7367.8	7434.0	7481.6	7449.1	7374.8	7278.4	7280.7	7306.3
55°	7596.6	7637.2	7735.9	7890.3	8013.4	8147.0	8185.3	8183.0	8124.9	8141.2	8166.7
57.5°	7816.0	7876.4	8028.5	8272.4	8523.2	8794.9	9024.8	9196.7	9269.8	9380.2	9354.6
60°	7400.3	7496.7	7720.8	8079.6	8575.4	9142.1	9749.4	10342.8	10849.1	11231.1	11011.6
62.5°	6059.1	6184.5	6456.3	6916.1	7666.2	8573.1	9735.5	11138.2	12666.3	13588.3	12929.9
65°	3791.3	3921.4	4197.7	4690.1	5567.9	6695.5	8272.4	10597.1	13452.5	14842.4	13502.4
67.5°	1478.2	1549.0	1698.8	2013.5	2673.1	3676.4	5259.1	7897.3	11312.4	12530.5	11102.2
70°	740.8	747.8	775.7	833.7	975.4	1266.9	1927.6	3661.3	6487.6	7835.8	6254.2
72.5°	535.3	536.5	550.4	576.0	621.2	686.3	811.7	1120.6	2109.9	3224.6	1977.5
75°	409.9	414.5	422.7	436.6	461.0	493.5	538.8	645.6	800.1	927.8	780.3
77.5°	315.8	325.1	330.9	343.7	358.8	380.9	393.6	434.3	505.1	531.8	523.7
80°	240.4	248.5	261.3	271.7	282.2	292.6	288.0	306.6	343.7	365.8	354.2
82.5°	153.3	162.6	199.7	209.0	213.7	220.6	212.5	213.7	229.9	243.9	229.9
85°	98.7	104.5	126.6	138.2	139.3	144.0	140.5	132.4	132.4	120.8	135.9
87.5°	45.3	46.4	56.9	67.3	69.7	62.7	61.5	59.2	47.6	45.3	48.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	2804.3	2806.6	2807.8	2811.3	2812.4	2812.4	2813.6	2815.9
5°	2826.4	2829.8	2831.0	2835.6	2836.8	2835.6	2838.0	2839.1
7.5°	2865.8	2871.6	2874.0	2878.6	2875.1	2879.8	2880.9	2880.9
10°	2923.9	2929.7	2930.9	2935.5	2933.2	2935.5	2935.5	2933.2
12.5°	3000.5	3001.7	2998.2	3001.7	2997.1	2999.4	2995.9	2993.6
15°	3085.3	3081.8	3073.7	3073.7	3066.7	3067.9	3066.7	3065.6
17.5°	3167.7	3160.8	3155.0	3152.7	3146.8	3145.7	3142.2	3142.2
20°	3258.3	3254.8	3251.4	3246.7	3240.9	3235.1	3233.9	3236.3
22.5°	3367.5	3366.3	3366.3	3364.0	3355.9	3350.1	3346.6	3346.6
25°	3513.8	3503.3	3503.3	3502.2	3498.7	3495.2	3488.2	3491.7
27.5°	3678.7	3672.9	3677.5	3676.4	3672.9	3672.9	3668.2	3668.2
30°	3881.9	3879.6	3886.5	3880.7	3869.1	3868.0	3863.3	3857.5
32.5°	4116.4	4114.1	4124.6	4117.6	4099.0	4088.6	4079.3	4074.6
35°	4377.7	4378.9	4391.7	4387.0	4366.1	4359.1	4342.9	4340.6
37.5°	4663.4	4682.0	4704.0	4708.7	4691.2	4686.6	4669.2	4659.9
40°	4999.0	5023.3	5057.0	5065.1	5046.6	5043.1	5018.7	5005.9
42.5°	5356.6	5398.4	5440.2	5447.2	5428.6	5410.0	5386.8	5377.5
45°	5756.1	5806.0	5860.6	5874.5	5846.6	5824.6	5794.4	5794.4
47.5°	6204.3	6267.0	6328.5	6366.8	6341.3	6318.1	6282.1	6258.9
50°	6733.8	6819.7	6899.8	6939.3	6898.7	6854.6	6791.8	6770.9
52.5°	7398.0	7490.9	7560.6	7539.7	7477.0	7415.4	7346.9	7319.0
55°	8245.7	8277.0	8277.0	8198.1	8072.6	7969.3	7861.3	7825.3
57.5°	9305.8	9185.1	8999.3	8763.6	8467.5	8209.7	8035.5	7953.0
60°	10551.8	9971.2	9315.1	8670.7	8141.2	7704.5	7445.6	7327.2
62.5°	11382.1	9863.2	8548.7	7514.1	6752.4	6226.3	5868.7	5729.4
65°	10637.7	8225.9	6465.6	5227.7	4397.5	3862.1	3508.0	3377.9
67.5°	7791.6	5154.6	3443.0	2467.5	1808.0	1442.2	1297.1	1236.7
70°	3497.5	1815.0	1112.4	868.6	749.0	687.4	660.7	651.4
72.5°	1054.4	762.9	643.3	580.6	533.0	502.8	480.7	478.4
75°	636.3	529.5	470.3	433.1	402.9	378.6	366.9	363.5
77.5°	444.7	389.0	361.1	334.4	311.2	292.6	282.2	274.0
80°	312.4	285.7	272.9	257.8	242.7	225.3	210.2	203.2
82.5°	209.0	203.2	203.2	193.9	181.1	164.9	134.7	127.7
85°	134.7	133.5	135.9	132.4	123.1	105.7	87.1	82.4
87.5°	62.7	63.9	70.8	69.7	67.3	55.7	44.1	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)