

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: P192603

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192603  
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-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32558.2 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G2

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: 28.75 FT

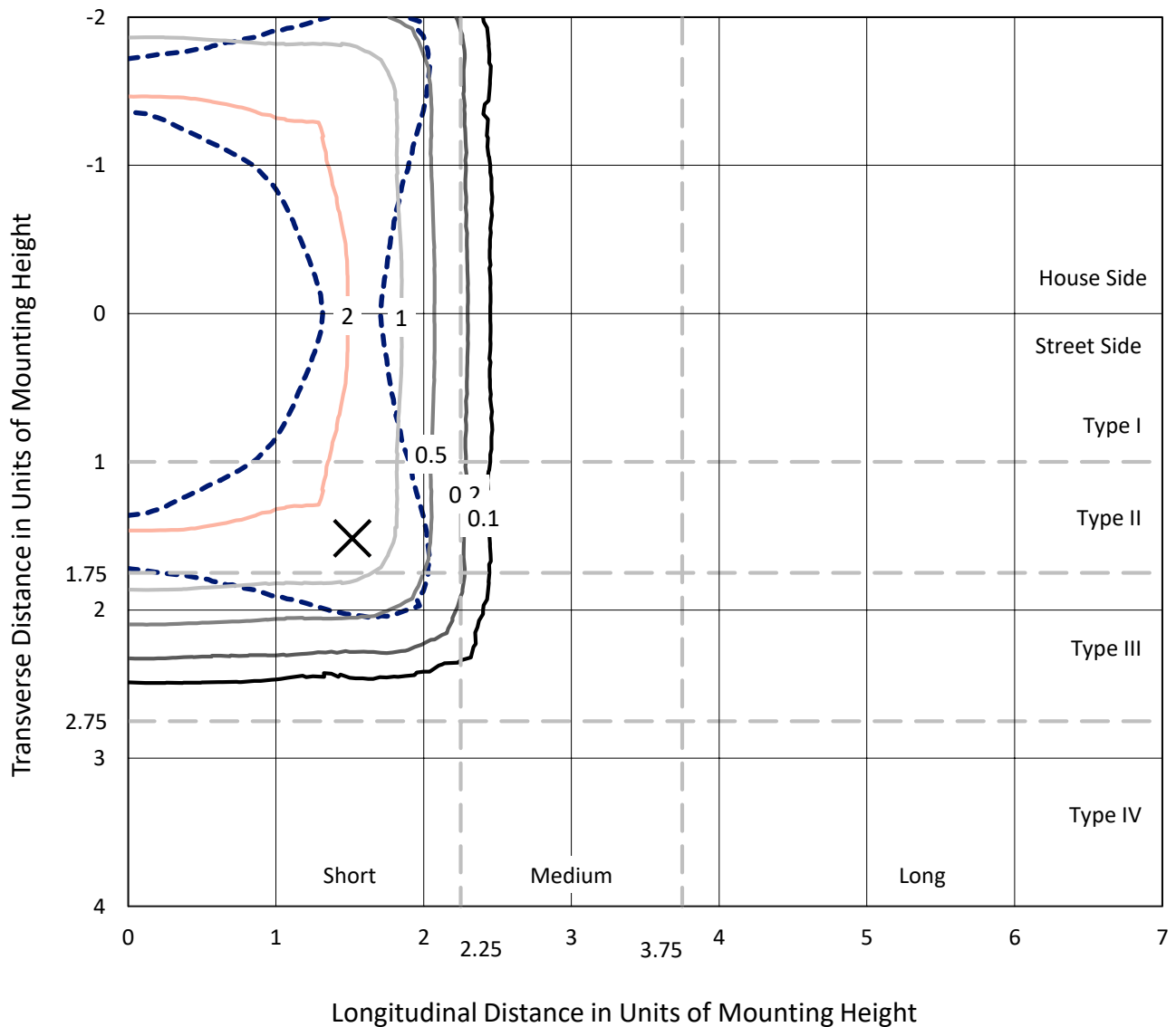


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

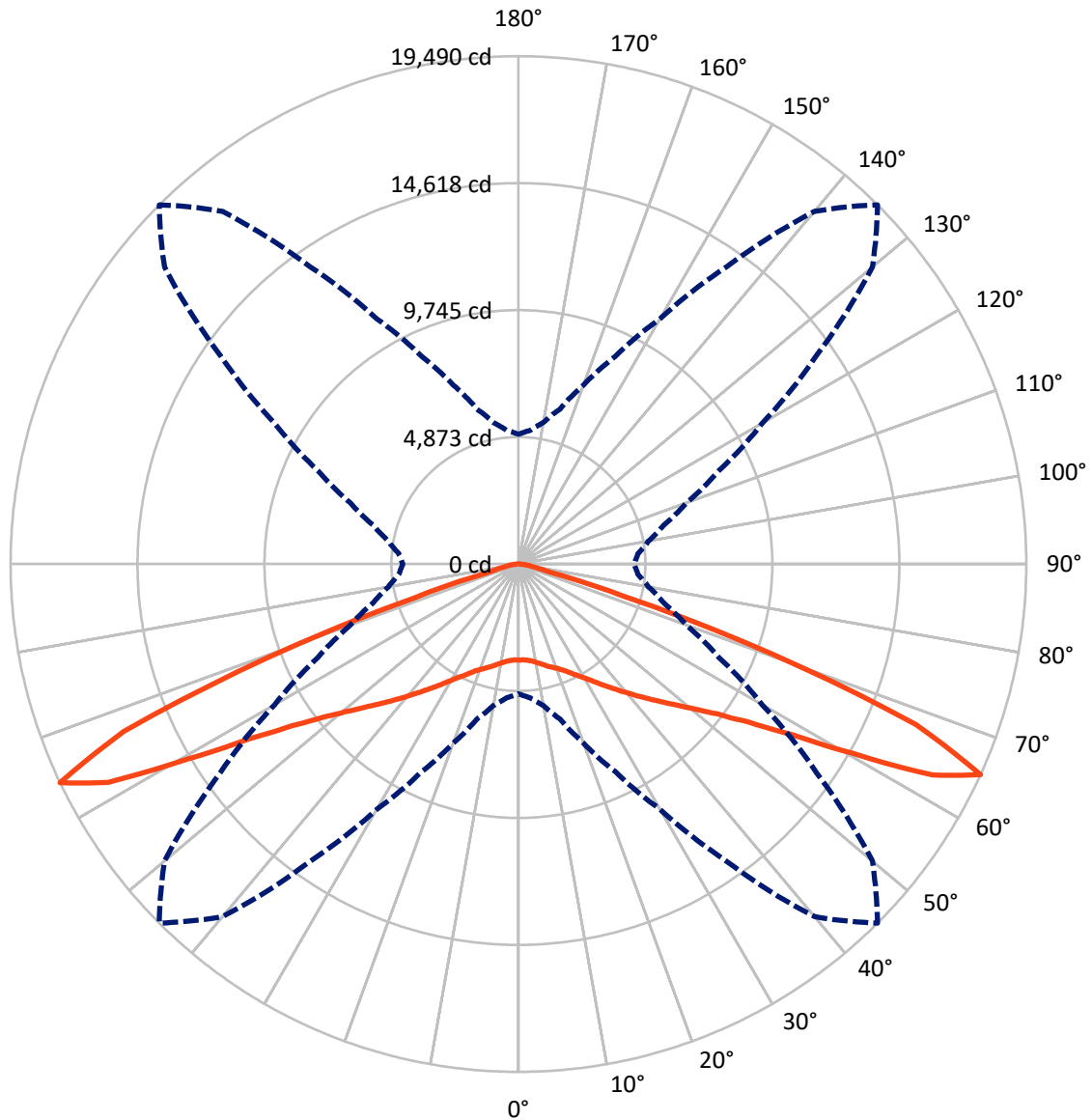


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	16279.1	0.0	16279.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16279.1	0.0	16279.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32558.2	0.0	32558.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	1.1
10°-20°	1151.6	3.5
20°-30°	2153.3	6.6
30°-40°	3641.8	11.2
40°-50°	5954.7	18.3
50°-60°	9468.9	29.1
60°-70°	8559.3	26.3
70°-80°	1083.2	3.3
80°-90°	186.3	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°	32558.2	100.0
0°-180°	32558.2	100.0



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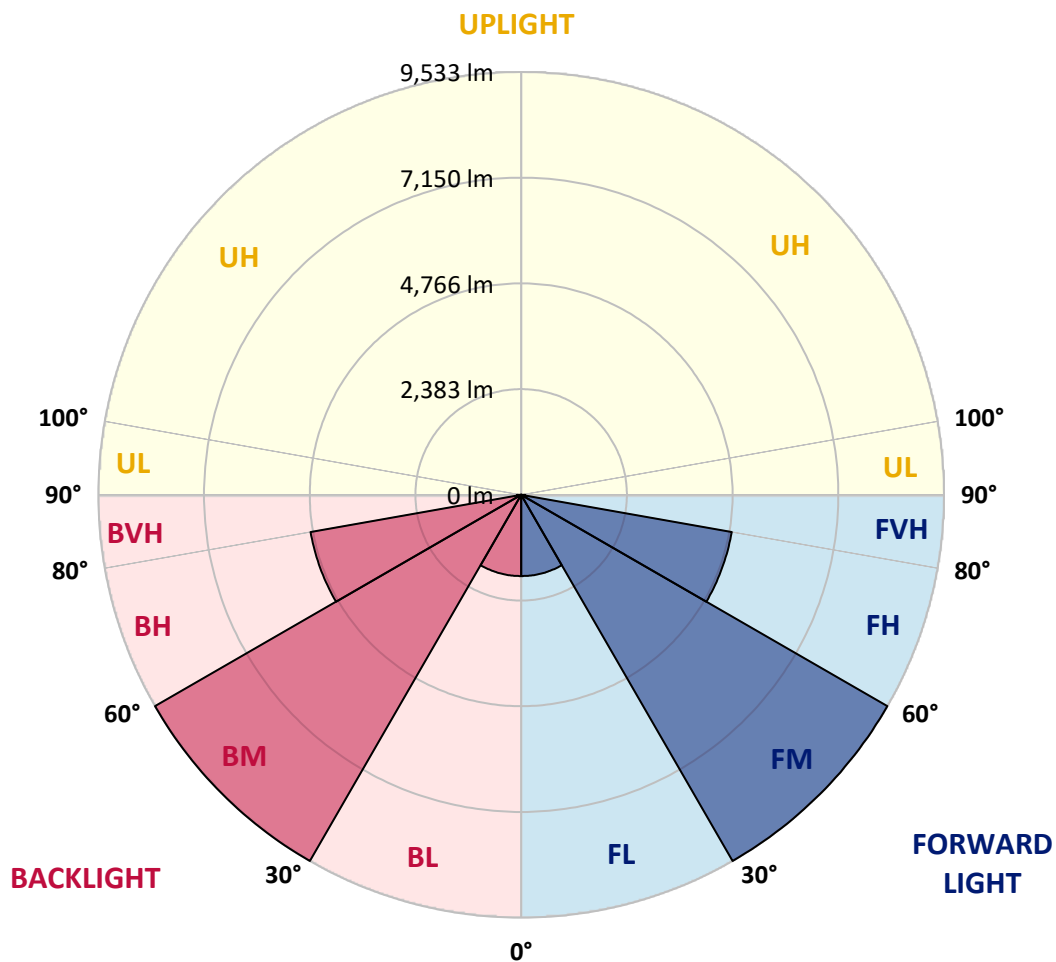
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1832.0	5.6			
FM	(30°-60°)	9532.7	29.3			
FH	(60°-80°)	4821.3	14.8			G2/5000
FVH	(80°-90°)	93.2	0.3			G1/100
BL	(0°-30°)	1832.0	5.6	B3/2500		
BM	(30°-60°)	9532.7	29.3	B5		
BH	(60°-80°)	4821.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	93.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0
2.5°	3687.1	3690.1	3693.1	3690.1	3693.1	3688.6	3685.6	3690.1	3685.6	3681.0	3684.0
5°	3719.0	3720.6	3720.6	3716.0	3720.6	3717.5	3712.9	3719.0	3714.5	3709.9	3712.9
7.5°	3772.4	3778.5	3774.0	3769.3	3772.4	3769.3	3766.2	3767.8	3766.2	3761.7	3763.2
10°	3844.1	3848.6	3845.6	3844.1	3847.1	3845.6	3842.5	3841.0	3842.5	3838.0	3838.0
12.5°	3931.0	3929.5	3928.0	3929.5	3934.1	3934.1	3932.6	3934.1	3937.0	3938.6	3935.5
15°	4016.4	4019.4	4019.4	4019.4	4028.6	4036.2	4040.7	4043.8	4049.9	4051.5	4045.4
17.5°	4123.1	4123.1	4121.6	4123.1	4132.3	4144.4	4149.0	4155.1	4161.2	4165.8	4158.2
20°	4242.1	4245.2	4245.2	4248.1	4260.3	4274.1	4274.1	4277.2	4274.1	4277.2	4272.6
22.5°	4386.9	4396.0	4396.0	4397.5	4409.8	4426.5	4421.9	4426.5	4419.0	4425.0	4419.0
25°	4576.0	4589.8	4586.7	4586.7	4595.8	4606.5	4608.0	4617.2	4615.6	4623.3	4618.7
27.5°	4789.5	4810.8	4816.9	4815.4	4821.5	4832.2	4835.3	4845.8	4839.7	4845.8	4842.8
30°	5045.6	5054.8	5067.0	5071.6	5079.1	5089.9	5089.9	5091.4	5083.8	5092.9	5097.5
32.5°	5311.0	5327.7	5339.9	5367.4	5381.1	5388.7	5387.2	5390.3	5382.6	5394.7	5404.0
35°	5661.7	5673.9	5693.7	5715.1	5733.4	5731.8	5727.3	5728.8	5728.8	5739.4	5748.5
37.5°	6084.0	6087.1	6113.0	6143.5	6152.7	6143.5	6116.2	6110.0	6096.2	6110.0	6125.2
40°	6530.9	6541.5	6593.4	6613.1	6617.8	6601.0	6561.3	6538.4	6507.9	6524.8	6546.0
42.5°	6998.9	7020.2	7067.6	7102.6	7117.9	7107.2	7052.3	7017.2	6977.7	6986.7	7008.1
45°	7517.4	7543.3	7610.4	7643.9	7672.9	7656.2	7602.8	7549.4	7486.9	7491.5	7525.0
47.5°	8096.7	8122.8	8209.6	8266.1	8281.3	8278.2	8218.8	8145.6	8060.2	8057.3	8086.2
50°	8746.4	8772.3	8880.6	8967.5	9011.7	9007.2	8937.0	8833.3	8729.6	8731.1	8767.7
52.5°	9380.7	9412.6	9525.6	9675.0	9761.9	9824.5	9781.8	9684.2	9557.6	9560.6	9594.2
55°	9975.4	10028.8	10158.4	10361.2	10522.8	10698.1	10748.5	10745.4	10669.1	10690.6	10724.2
57.5°	10263.6	10342.9	10542.7	10862.9	11192.2	11549.0	11851.0	12076.7	12172.7	12317.6	12284.0
60°	9717.7	9844.3	10138.6	10609.7	11260.8	12005.0	12802.5	13581.6	14246.5	14748.2	14459.9
62.5°	7956.5	8121.2	8478.0	9081.8	10066.9	11257.7	12784.1	14626.1	16632.7	17843.4	16978.9
65°	4978.5	5149.3	5512.2	6158.7	7311.5	8792.1	10862.9	13915.6	17665.0	19490.3	17730.7
67.5°	1941.1	2034.1	2230.8	2644.1	3510.2	4827.6	6905.9	10370.4	14854.8	16454.3	14578.8
70°	972.9	982.0	1018.7	1094.8	1280.8	1663.6	2531.2	4807.7	8519.2	10289.5	8212.7
72.5°	703.0	704.5	722.8	756.3	815.7	901.2	1065.9	1471.5	2770.6	4234.5	2596.8
75°	538.2	544.3	555.0	573.3	605.4	648.0	707.6	847.9	1050.6	1218.4	1024.7
77.5°	414.7	426.9	434.6	451.4	471.1	500.2	516.9	570.4	663.3	698.3	687.7
80°	315.6	326.3	343.1	356.8	370.5	384.3	378.1	402.5	451.4	480.3	465.1
82.5°	201.2	213.5	262.2	274.5	280.6	289.7	279.0	280.6	301.9	320.2	301.9
85°	129.6	137.2	166.2	181.5	183.0	189.1	184.5	173.8	173.8	158.5	178.4
87.5°	59.4	60.9	74.8	88.4	91.4	82.4	80.9	77.8	62.5	59.4	64.0
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°	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0	3684.0
2.5°	3682.5	3685.6	3687.1	3691.7	3693.1	3693.1	3694.6	3697.7
5°	3711.4	3716.0	3717.5	3723.7	3725.2	3723.7	3726.7	3728.2
7.5°	3763.2	3770.9	3774.0	3780.1	3775.5	3781.6	3783.1	3783.1
10°	3839.5	3847.1	3848.6	3854.7	3851.7	3854.7	3854.7	3851.7
12.5°	3940.1	3941.6	3937.0	3941.6	3935.5	3938.6	3934.1	3931.0
15°	4051.5	4046.9	4036.2	4036.2	4027.1	4028.6	4027.1	4025.5
17.5°	4159.7	4150.5	4142.9	4140.0	4132.3	4130.8	4126.1	4126.1
20°	4278.7	4274.1	4269.6	4263.4	4255.7	4248.1	4246.6	4249.6
22.5°	4421.9	4420.4	4420.4	4417.5	4406.8	4399.1	4394.5	4394.5
25°	4614.1	4600.4	4600.4	4598.8	4594.3	4589.8	4580.5	4585.2
27.5°	4830.7	4823.0	4829.2	4827.6	4823.0	4823.0	4816.9	4816.9
30°	5097.5	5094.4	5103.6	5096.0	5080.7	5079.1	5073.1	5065.5
32.5°	5405.5	5402.5	5416.2	5407.0	5382.6	5368.9	5356.7	5350.7
35°	5748.5	5750.1	5766.9	5760.8	5733.4	5724.2	5702.8	5699.8
37.5°	6123.7	6148.1	6177.1	6183.2	6160.2	6154.1	6131.3	6119.1
40°	6564.4	6596.4	6640.6	6651.2	6626.9	6622.3	6590.3	6573.5
42.5°	7034.0	7089.0	7143.8	7152.9	7128.5	7104.1	7073.7	7061.4
45°	7558.5	7624.1	7695.7	7714.0	7677.5	7648.4	7609.0	7609.0
47.5°	8147.1	8229.5	8310.3	8360.6	8327.0	8296.6	8249.3	8218.8
50°	8842.5	8955.3	9060.6	9112.3	9059.0	9001.0	8918.8	8891.3
52.5°	9714.7	9836.6	9928.2	9900.6	9818.4	9737.5	9647.6	9611.0
55°	10827.8	10868.9	10868.9	10765.2	10600.6	10464.9	10323.1	10275.9
57.5°	12219.9	12061.3	11817.4	11507.8	11119.0	10780.5	10551.8	10443.5
60°	13856.0	13093.6	12232.1	11385.9	10690.6	10117.2	9777.2	9621.6
62.5°	14946.3	12951.8	11225.8	9867.1	8866.8	8176.1	7706.5	7523.5
65°	13968.9	10801.8	8490.2	6864.8	5774.5	5071.6	4606.5	4435.7
67.5°	10231.6	6768.7	4521.1	3240.3	2374.2	1893.8	1703.3	1623.9
70°	4592.8	2383.3	1460.8	1140.5	983.6	902.7	867.6	855.4
72.5°	1384.6	1001.8	844.8	762.4	700.0	660.3	631.3	628.2
75°	835.7	695.3	617.6	568.8	529.2	497.1	481.9	477.3
77.5°	584.0	510.8	474.1	439.1	408.6	384.3	370.5	359.9
80°	410.2	375.1	358.4	338.4	318.7	295.8	276.0	266.8
82.5°	274.5	266.8	266.8	254.7	237.8	216.6	176.9	167.7
85°	176.9	175.4	178.4	173.8	161.6	138.8	114.4	108.2
87.5°	82.4	83.9	93.0	91.4	88.4	73.2	57.9	54.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)