

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: P191642

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191642  
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-04-LED-U-5NQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 20011 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 171  
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

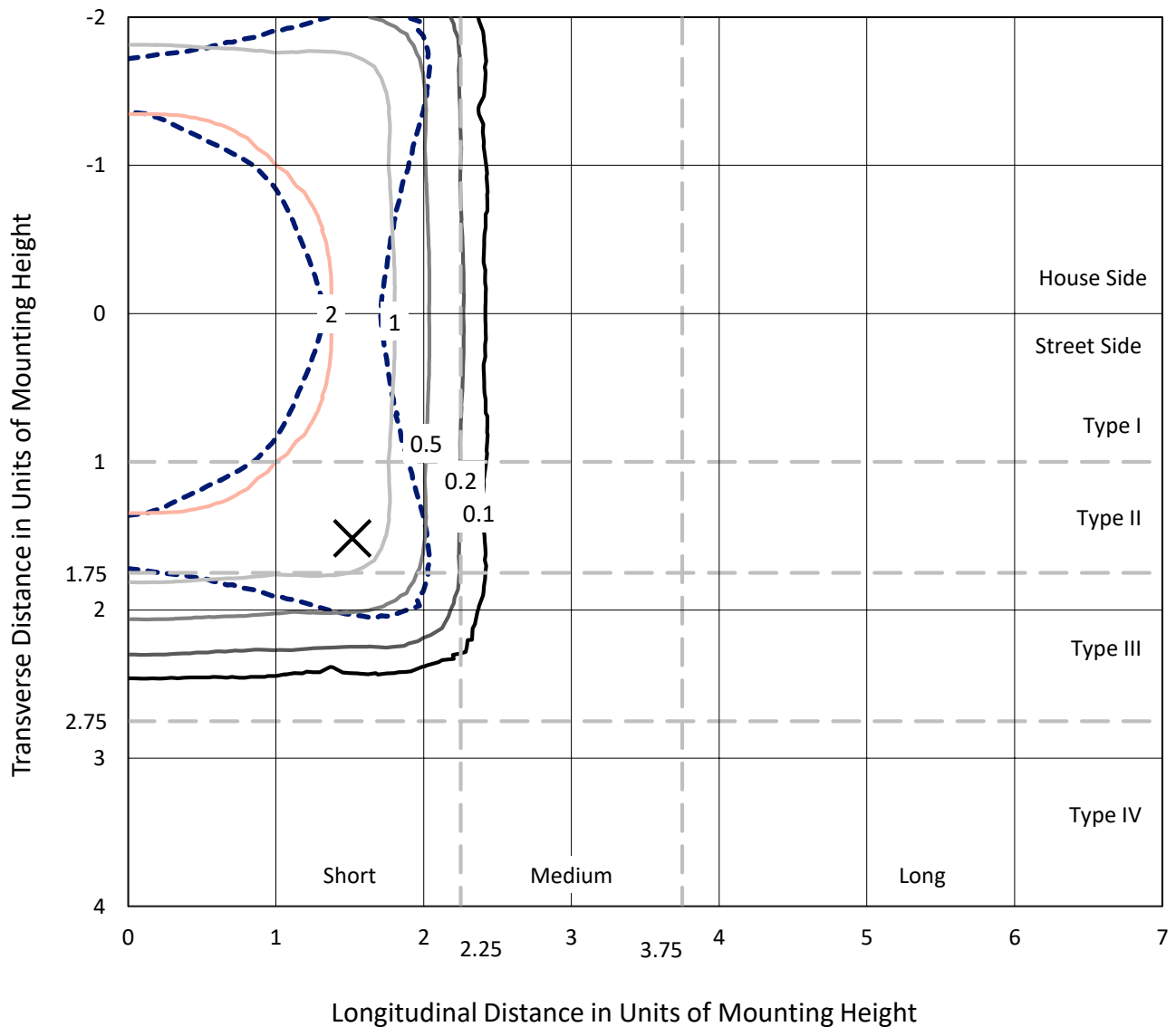


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

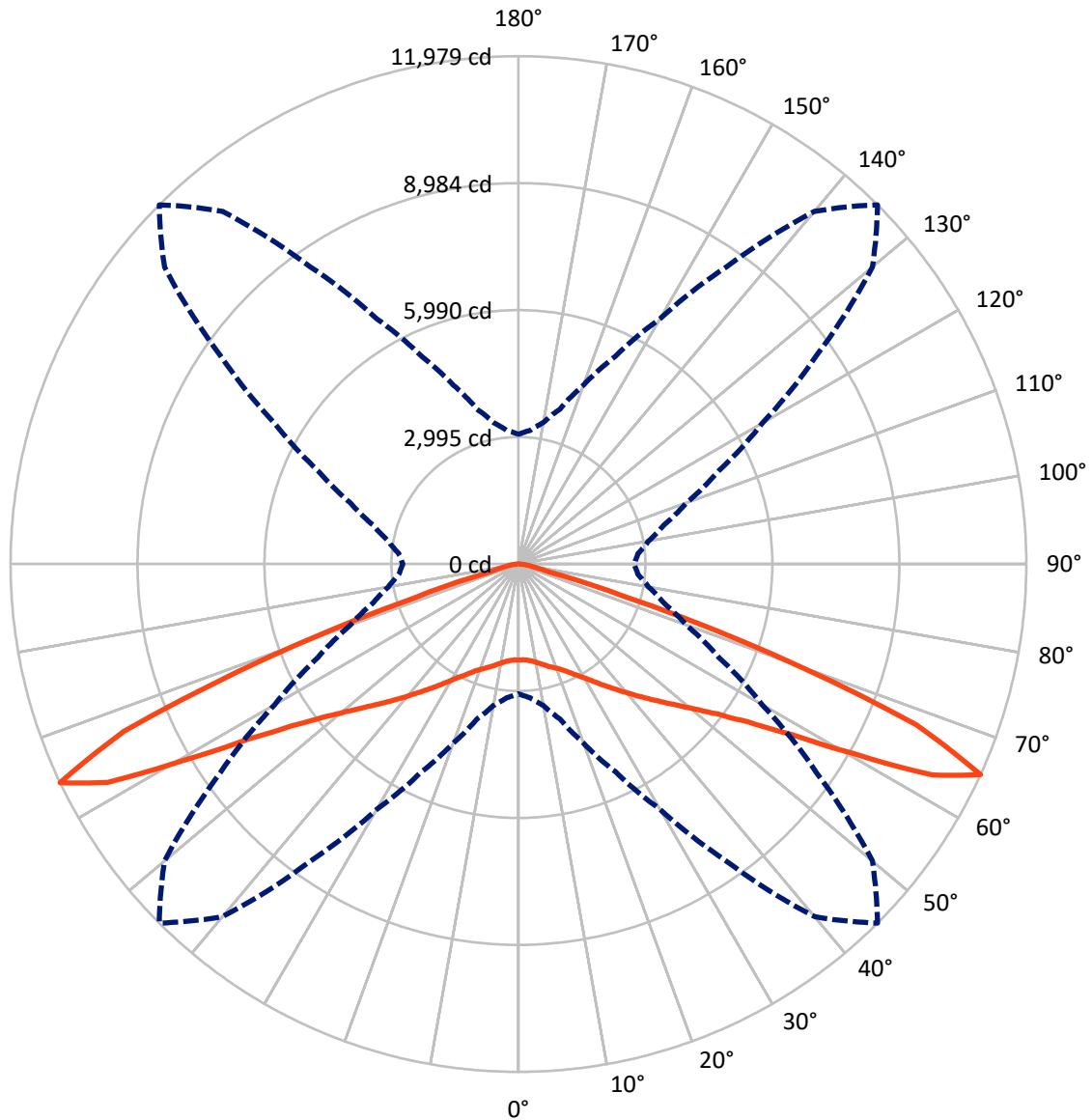


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Full Cutoff

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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	10005.5	0.0	10005.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10005.5	0.0	10005.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20011.0	0.0	20011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	1.1
10°-20°	707.8	3.5
20°-30°	1323.5	6.6
30°-40°	2238.3	11.2
40°-50°	3659.9	18.3
50°-60°	5819.8	29.1
60°-70°	5260.7	26.3
70°-80°	665.8	3.3
80°-90°	114.5	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°	20011.0	100.0
0°-180°	20011.0	100.0

**Coefficient of Utilization**



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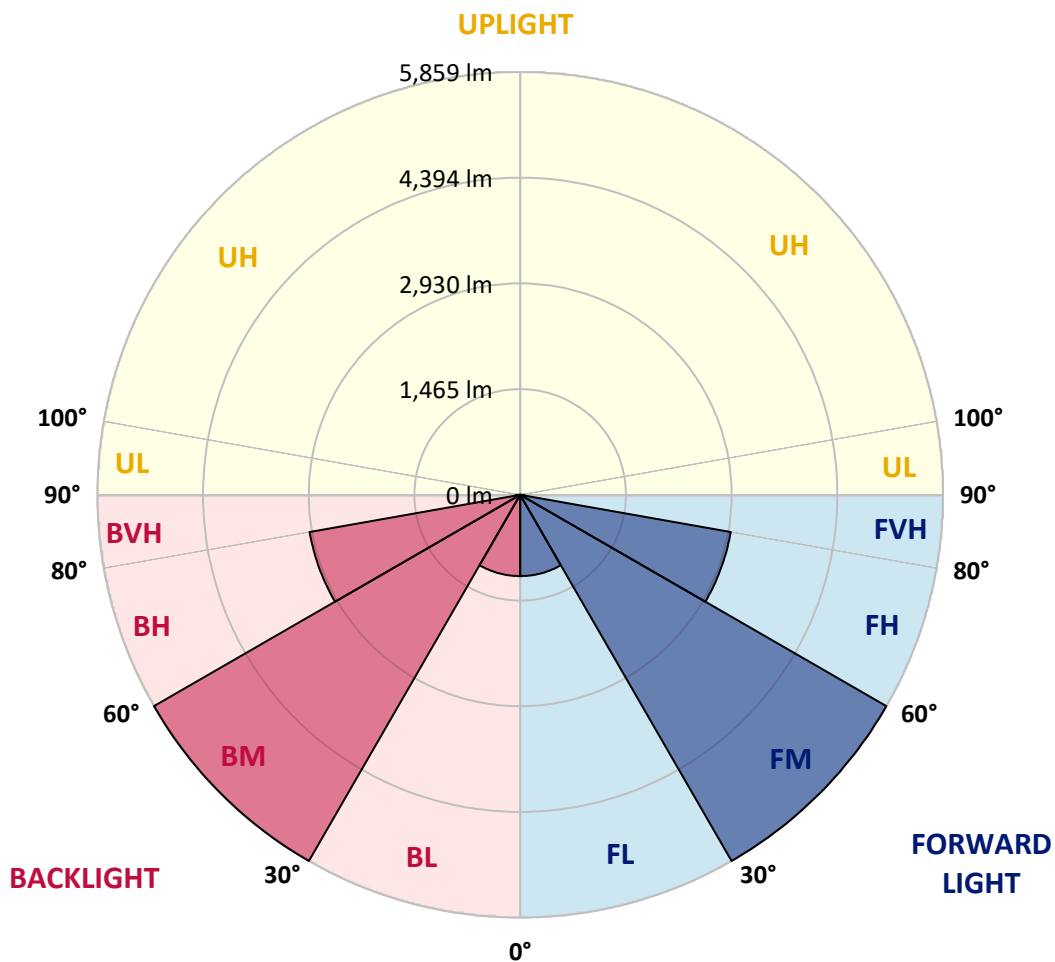
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.0	5.6			
FM	(30°-60°)	5859.0	29.3			
FH	(60°-80°)	2963.2	14.8			G2/5000
FVH	(80°-90°)	57.3	0.3			G1/100
BL	(0°-30°)	1126.0	5.6	B3/2500		
BM	(30°-60°)	5859.0	29.3	B4/8500		
BH	(60°-80°)	2963.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	57.3	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°	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3
2.5°	2266.1	2268.0	2269.9	2268.0	2269.9	2267.1	2265.2	2268.0	2265.2	2262.4	2264.3
5°	2285.8	2286.7	2286.7	2283.9	2286.7	2284.9	2282.1	2285.8	2283.0	2280.2	2282.1
7.5°	2318.6	2322.4	2319.5	2316.7	2318.6	2316.7	2314.9	2315.8	2314.9	2312.1	2313.0
10°	2362.7	2365.5	2363.6	2362.7	2364.5	2363.6	2361.7	2360.8	2361.7	2358.9	2358.9
12.5°	2416.1	2415.1	2414.2	2415.1	2418.0	2418.0	2417.0	2418.0	2419.8	2420.8	2418.9
15°	2468.6	2470.4	2470.4	2470.4	2476.1	2480.7	2483.6	2485.4	2489.2	2490.1	2486.4
17.5°	2534.2	2534.2	2533.2	2534.2	2539.8	2547.3	2550.1	2553.8	2557.6	2560.4	2555.7
20°	2607.3	2609.1	2609.1	2611.0	2618.5	2626.9	2626.9	2628.8	2626.9	2628.8	2626.0
22.5°	2696.3	2701.9	2701.9	2702.9	2710.4	2720.7	2717.9	2720.7	2716.0	2719.7	2716.0
25°	2812.5	2820.9	2819.1	2819.1	2824.7	2831.3	2832.2	2837.8	2836.9	2841.6	2838.8
27.5°	2943.7	2956.8	2960.6	2959.7	2963.4	2970.0	2971.8	2978.4	2974.6	2978.4	2976.5
30°	3101.2	3106.8	3114.3	3117.1	3121.8	3128.3	3128.3	3129.3	3124.6	3130.2	3133.0
32.5°	3264.2	3274.5	3282.0	3298.9	3307.3	3312.0	3311.1	3313.0	3308.3	3315.8	3321.4
35°	3479.8	3487.3	3499.5	3512.6	3523.8	3522.9	3520.1	3521.0	3521.0	3527.6	3533.2
37.5°	3739.4	3741.3	3757.2	3775.9	3781.6	3775.9	3759.1	3755.3	3746.9	3755.3	3764.7
40°	4014.0	4020.6	4052.4	4064.6	4067.4	4057.1	4032.7	4018.7	3999.9	4010.2	4023.4
42.5°	4301.7	4314.8	4343.9	4365.4	4374.8	4368.3	4334.5	4313.0	4288.6	4294.2	4307.3
45°	4620.4	4636.3	4677.5	4698.1	4715.9	4705.6	4672.8	4640.0	4601.6	4604.4	4625.0
47.5°	4976.5	4992.4	5045.8	5080.5	5089.9	5088.0	5051.5	5006.5	4954.0	4952.1	4969.9
50°	5375.7	5391.7	5458.2	5511.6	5538.8	5536.0	5492.9	5429.2	5365.4	5366.4	5388.9
52.5°	5765.6	5785.3	5854.6	5946.5	5999.9	6038.3	6012.1	5952.1	5874.3	5876.2	5896.8
55°	6131.1	6163.9	6243.6	6368.2	6467.6	6575.3	6606.3	6604.4	6557.5	6570.7	6591.3
57.5°	6308.2	6357.0	6479.7	6676.6	6879.0	7098.3	7283.9	7422.6	7481.6	7570.6	7550.0
60°	5972.7	6050.5	6231.4	6521.0	6921.2	7378.5	7868.7	8347.6	8756.2	9064.5	8887.4
62.5°	4890.3	4991.5	5210.8	5581.9	6187.3	6919.3	7857.4	8989.5	10222.9	10967.0	10435.6
65°	3059.9	3164.9	3387.9	3785.3	4493.8	5403.8	6676.6	8552.8	10857.4	11979.2	10897.7
67.5°	1193.0	1250.2	1371.1	1625.1	2157.4	2967.1	4244.5	6373.8	9130.1	10113.2	8960.5
70°	597.9	603.6	626.0	672.9	787.2	1022.5	1555.7	2955.0	5236.1	6324.2	5047.7
72.5°	432.0	433.0	444.2	464.8	501.4	553.9	655.1	904.4	1702.9	2602.6	1596.0
75°	330.8	334.6	341.1	352.4	372.1	398.3	434.9	521.1	645.7	748.8	629.8
77.5°	254.9	262.4	267.1	277.4	289.6	307.4	317.7	350.5	407.7	429.2	422.7
80°	194.0	200.6	210.9	219.3	227.7	236.2	232.4	247.4	277.4	295.2	285.8
82.5°	123.7	131.2	161.2	168.7	172.4	178.1	171.5	172.4	185.6	196.8	185.6
85°	79.7	84.3	102.2	111.5	112.5	116.2	113.4	106.8	106.8	97.5	109.7
87.5°	36.6	37.5	45.9	54.4	56.2	50.6	49.7	47.8	38.4	36.6	39.4
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°	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3
2.5°	2263.3	2265.2	2266.1	2268.9	2269.9	2269.9	2270.8	2272.7
5°	2281.1	2283.9	2284.9	2288.6	2289.6	2288.6	2290.5	2291.4
7.5°	2313.0	2317.7	2319.5	2323.3	2320.5	2324.2	2325.2	2325.2
10°	2359.8	2364.5	2365.5	2369.2	2367.3	2369.2	2369.2	2367.3
12.5°	2421.7	2422.6	2419.8	2422.6	2418.9	2420.8	2418.0	2416.1
15°	2490.1	2487.3	2480.7	2480.7	2475.1	2476.1	2475.1	2474.2
17.5°	2556.7	2551.0	2546.4	2544.5	2539.8	2538.9	2536.0	2536.0
20°	2629.8	2626.9	2624.1	2620.4	2615.7	2611.0	2610.1	2612.0
22.5°	2717.9	2716.9	2716.9	2715.0	2708.5	2703.8	2701.0	2701.0
25°	2835.9	2827.5	2827.5	2826.6	2823.8	2820.9	2815.3	2818.1
27.5°	2969.0	2964.3	2968.1	2967.1	2964.3	2964.3	2960.6	2960.6
30°	3133.0	3131.2	3136.8	3132.1	3122.7	3121.8	3118.0	3113.4
32.5°	3322.3	3320.5	3328.9	3323.3	3308.3	3299.9	3292.4	3288.6
35°	3533.2	3534.2	3544.5	3540.7	3523.8	3518.2	3505.1	3503.2
37.5°	3763.8	3778.8	3796.6	3800.3	3786.3	3782.5	3768.4	3761.0
40°	4034.6	4054.3	4081.5	4088.0	4073.0	4070.2	4050.5	4040.2
42.5°	4323.3	4357.0	4390.7	4396.4	4381.4	4366.4	4347.6	4340.1
45°	4645.7	4686.0	4730.0	4741.3	4718.8	4701.0	4676.6	4676.6
47.5°	5007.4	5058.0	5107.7	5138.6	5118.0	5099.3	5070.2	5051.5
50°	5434.8	5504.1	5568.8	5600.7	5567.9	5532.2	5481.6	5464.8
52.5°	5970.8	6045.8	6102.1	6085.2	6034.6	5984.9	5929.6	5907.1
55°	6655.0	6680.3	6680.3	6616.6	6515.4	6431.9	6344.8	6315.7
57.5°	7510.7	7413.2	7263.2	7073.0	6834.0	6625.9	6485.4	6418.8
60°	8516.3	8047.7	7518.2	6998.0	6570.7	6218.3	6009.3	5913.7
62.5°	9186.4	7960.5	6899.6	6064.6	5449.8	5025.2	4736.6	4624.1
65°	8585.6	6639.1	5218.3	4219.2	3549.1	3117.1	2831.3	2726.3
67.5°	6288.6	4160.2	2778.8	1991.5	1459.2	1164.0	1046.8	998.1
70°	2822.8	1464.8	897.8	701.0	604.5	554.8	533.3	525.8
72.5°	851.0	615.7	519.2	468.6	430.2	405.8	388.0	386.1
75°	513.6	427.4	379.6	349.6	325.2	305.5	296.2	293.3
77.5°	358.9	314.0	291.5	269.9	251.2	236.2	227.7	221.2
80°	252.1	230.5	220.2	208.1	195.9	181.8	169.6	164.0
82.5°	168.7	164.0	164.0	156.5	146.2	133.1	108.7	103.1
85°	108.7	107.8	109.7	106.8	99.3	85.3	70.3	66.5
87.5°	50.6	51.5	57.2	56.2	54.4	45.0	35.6	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)