

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: P268325

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268325
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-03-LED-U-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16286.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

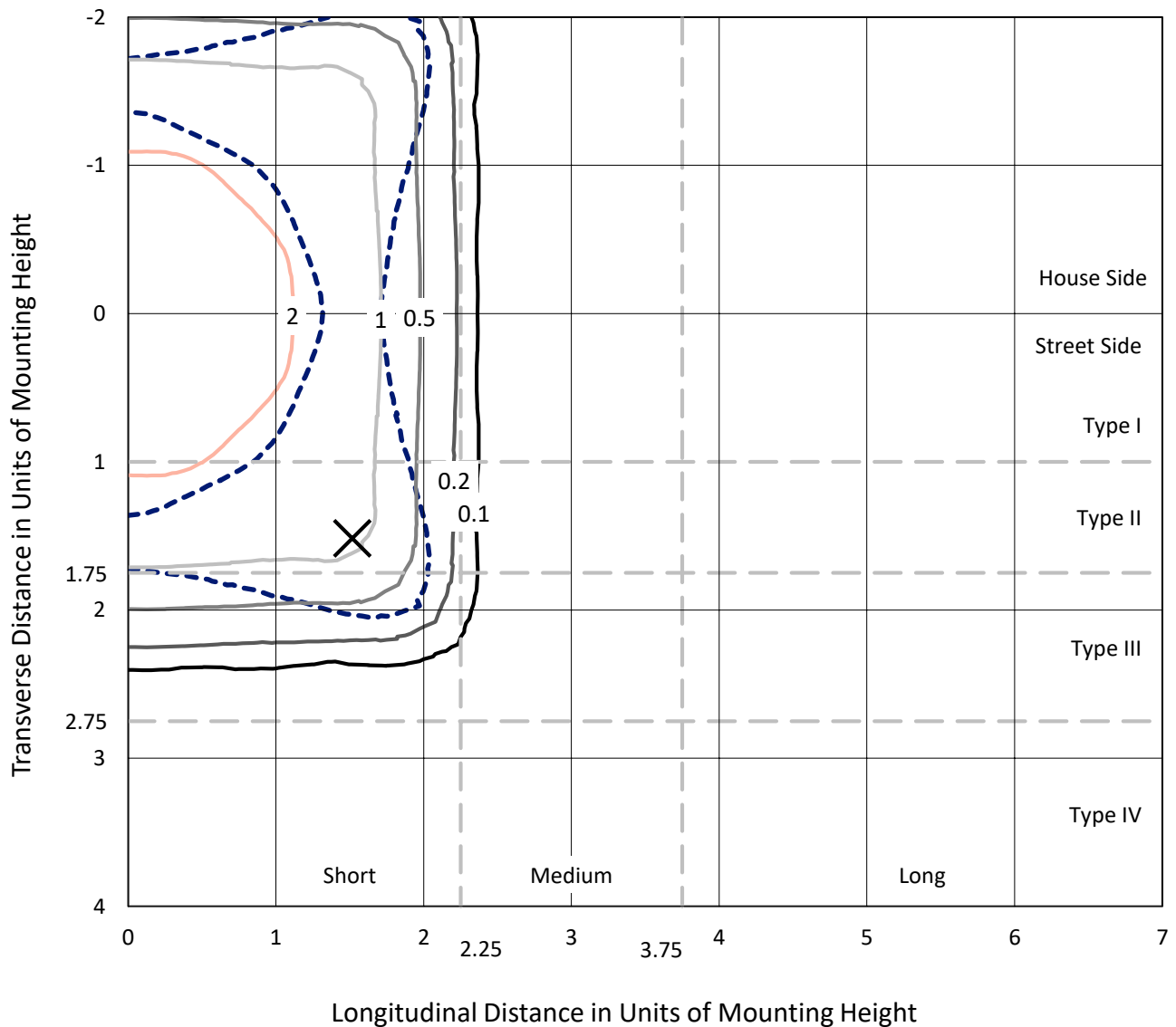
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

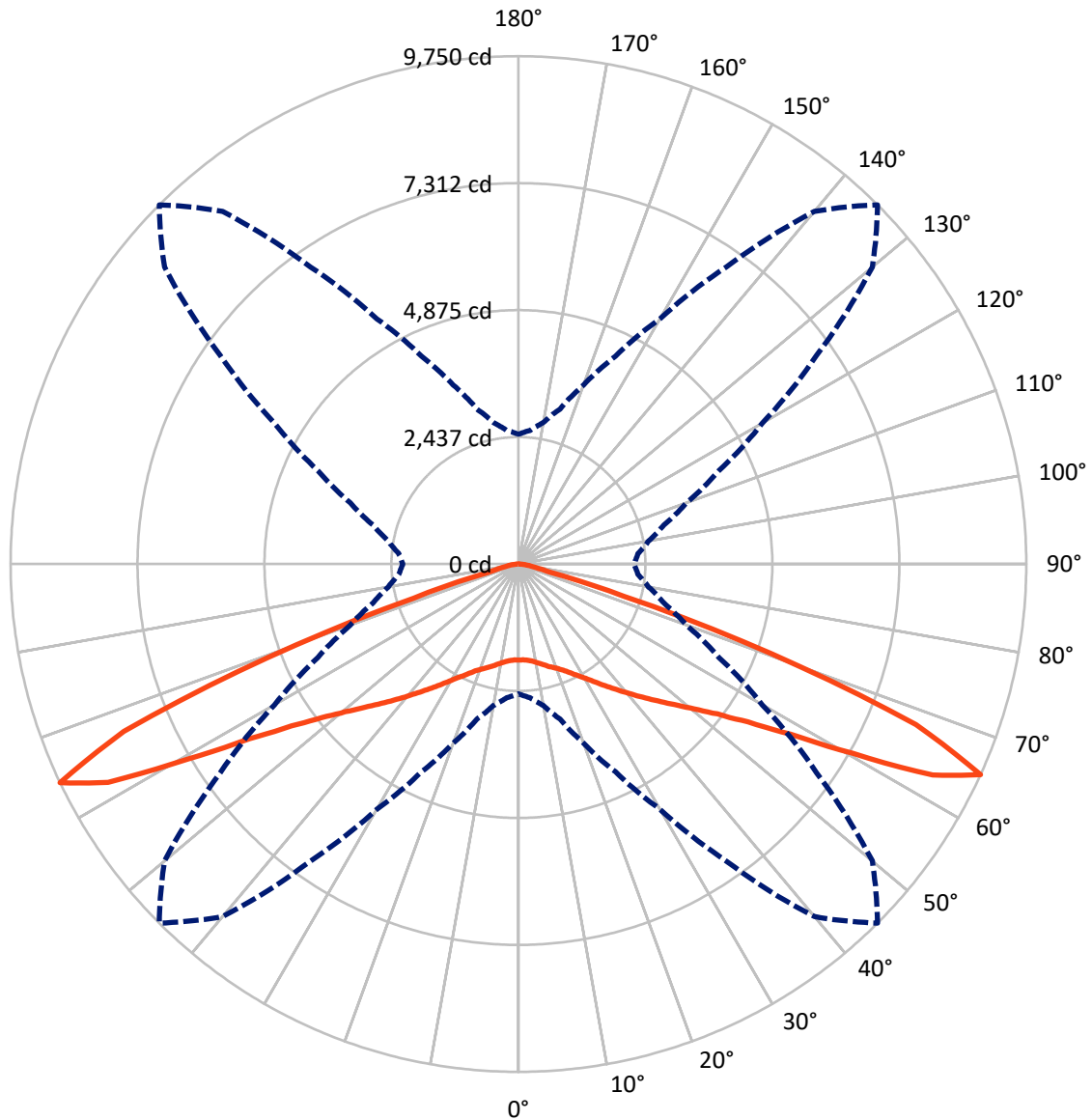
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	8143.4	0.0	8143.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8143.4	0.0	8143.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16286.7	0.0	16286.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.1
10°-20°	576.1	3.5
20°-30°	1077.1	6.6
30°-40°	1821.7	11.2
40°-50°	2978.7	18.3
50°-60°	4736.7	29.1
60°-70°	4281.6	26.3
70°-80°	541.9	3.3
80°-90°	93.2	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°	16286.7	100.0
0°-180°	16286.7	100.0



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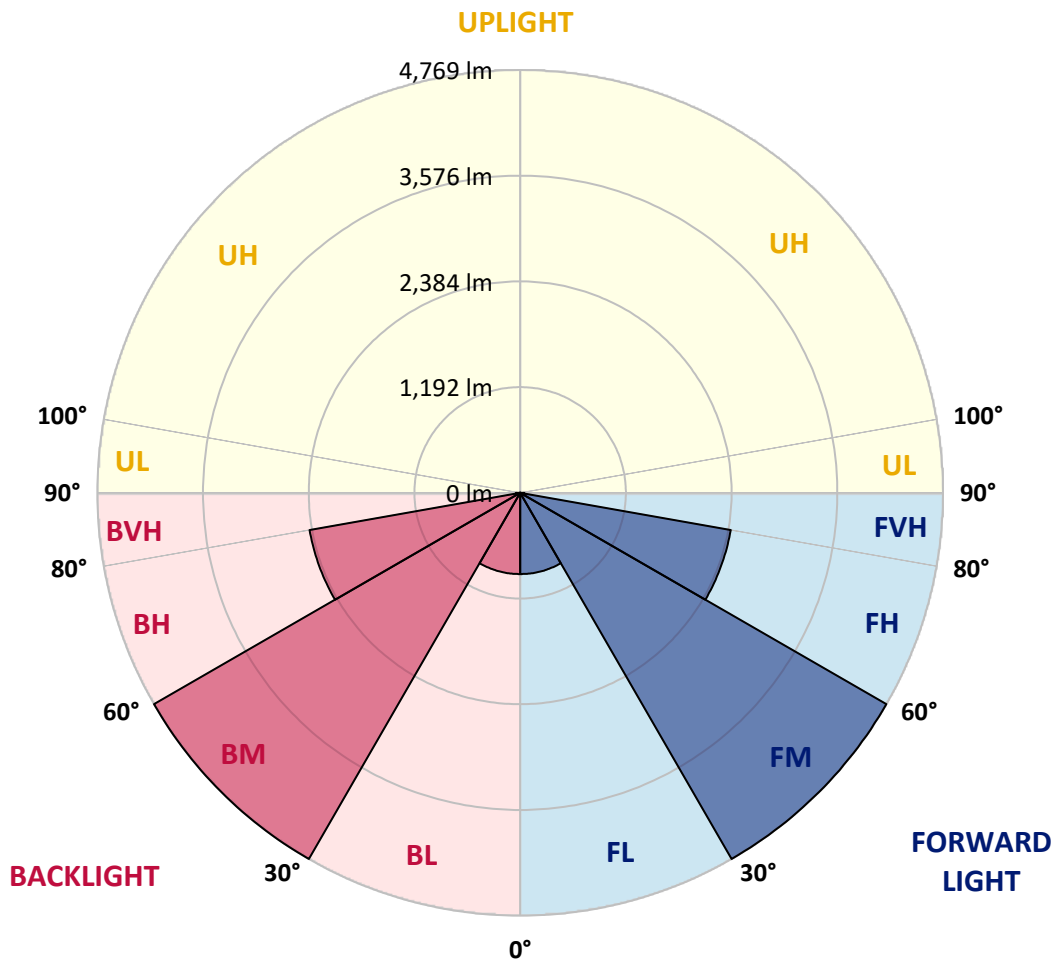
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.4	5.6			
FM (30°-60°)	4768.6	29.3			
FH (60°-80°)	2411.8	14.8			G2/5000
FVH (80°-90°)	46.6	0.3			G1/100
BL (0°-30°)	916.4	5.6	B2/1000		
BM (30°-60°)	4768.6	29.3	B3/5000		
BH (60°-80°)	2411.8	14.8	B3/2500		G2/5000
BVH (80°-90°)	46.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1844.4	1845.8	1847.5	1845.8	1847.5	1845.2	1843.6	1845.8	1843.6	1841.3	1842.9
5°	1860.4	1861.2	1861.2	1858.9	1861.2	1859.6	1857.3	1860.4	1858.1	1855.8	1857.3
7.5°	1887.1	1890.2	1887.9	1885.5	1887.1	1885.5	1884.0	1884.9	1884.0	1881.8	1882.5
10°	1922.9	1925.2	1923.7	1922.9	1924.4	1923.7	1922.2	1921.5	1922.2	1919.9	1919.9
12.5°	1966.4	1965.6	1965.0	1965.6	1967.9	1967.9	1967.2	1967.9	1969.4	1970.3	1968.7
15°	2009.1	2010.6	2010.6	2010.6	2015.3	2019.0	2021.4	2022.9	2025.9	2026.7	2023.6
17.5°	2062.5	2062.5	2061.8	2062.5	2067.1	2073.2	2075.5	2078.6	2081.6	2083.9	2080.0
20°	2122.1	2123.6	2123.6	2125.1	2131.1	2138.1	2138.1	2139.6	2138.1	2139.6	2137.2
22.5°	2194.5	2199.1	2199.1	2199.8	2205.9	2214.3	2212.0	2214.3	2210.5	2213.6	2210.5
25°	2289.2	2296.0	2294.5	2294.5	2299.0	2304.3	2305.1	2309.6	2309.0	2312.7	2310.4
27.5°	2395.9	2406.5	2409.7	2408.8	2411.9	2417.2	2418.7	2424.0	2421.0	2424.0	2422.5
30°	2524.0	2528.5	2534.7	2537.0	2540.8	2546.2	2546.2	2546.9	2543.1	2547.7	2549.8
32.5°	2656.7	2665.1	2671.2	2684.9	2691.9	2695.6	2694.8	2696.4	2692.6	2698.7	2703.3
35°	2832.1	2838.3	2848.2	2858.9	2868.0	2867.2	2865.0	2865.8	2865.8	2871.1	2875.7
37.5°	3043.5	3045.0	3057.9	3073.2	3077.8	3073.2	3059.4	3056.5	3049.6	3056.5	3064.1
40°	3267.0	3272.3	3298.1	3308.1	3310.4	3302.0	3282.1	3270.8	3255.5	3263.9	3274.6
42.5°	3501.1	3511.7	3535.4	3552.9	3560.6	3555.2	3527.9	3510.2	3490.5	3494.9	3505.6
45°	3760.5	3773.4	3806.9	3823.7	3838.3	3829.8	3803.2	3776.5	3745.3	3747.5	3764.3
47.5°	4050.3	4063.3	4106.7	4135.0	4142.7	4141.0	4111.4	4074.7	4032.0	4030.4	4045.0
50°	4375.3	4388.2	4442.4	4485.9	4508.0	4505.7	4470.5	4418.8	4366.8	4367.6	4386.0
52.5°	4692.6	4708.6	4765.0	4839.8	4883.2	4914.4	4893.2	4844.3	4781.0	4782.5	4799.4
55°	4990.1	5016.8	5081.5	5183.0	5263.9	5351.7	5376.7	5375.3	5337.1	5347.8	5364.6
57.5°	5134.3	5173.9	5273.8	5433.9	5598.7	5777.2	5928.3	6041.1	6089.3	6161.7	6144.9
60°	4861.1	4924.4	5071.7	5307.4	5633.0	6005.3	6404.1	6794.1	7126.6	7377.5	7233.3
62.5°	3980.1	4062.6	4241.0	4543.1	5035.8	5631.6	6395.0	7316.4	8320.3	8925.9	8493.5
65°	2490.5	2575.9	2757.3	3080.8	3657.4	4398.1	5433.9	6961.1	8836.6	9749.8	8869.4
67.5°	971.0	1017.5	1116.0	1322.7	1755.8	2415.0	3454.6	5187.6	7430.9	8231.0	7292.8
70°	486.6	491.3	509.5	547.6	640.8	832.2	1266.3	2405.0	4261.6	5147.2	4108.3
72.5°	351.6	352.3	361.6	378.4	408.1	450.8	533.1	736.2	1385.9	2118.3	1298.9
75°	269.2	272.2	277.7	286.7	302.8	324.2	353.9	424.1	525.6	609.5	512.7
77.5°	207.5	213.5	217.4	225.7	235.6	250.2	258.6	285.3	331.8	349.4	344.1
80°	157.9	163.2	171.7	178.6	185.4	192.1	189.2	201.4	225.7	240.2	232.7
82.5°	100.7	106.8	131.2	137.4	140.3	144.9	139.5	140.3	151.1	160.2	151.1
85°	64.9	68.6	83.2	90.8	91.5	94.6	92.3	87.0	87.0	79.3	89.2
87.5°	29.7	30.5	37.4	44.2	45.8	41.2	40.5	38.8	31.4	29.7	32.0
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°	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1842.1	1843.6	1844.4	1846.6	1847.5	1847.5	1848.3	1849.7
5°	1856.5	1858.9	1859.6	1862.6	1863.4	1862.6	1864.3	1865.1
7.5°	1882.5	1886.4	1887.9	1890.9	1888.5	1891.7	1892.4	1892.4
10°	1920.7	1924.4	1925.2	1928.3	1926.8	1928.3	1928.3	1926.8
12.5°	1971.1	1971.8	1969.4	1971.8	1968.7	1970.3	1967.9	1966.4
15°	2026.7	2024.4	2019.0	2019.0	2014.4	2015.3	2014.4	2013.7
17.5°	2080.8	2076.3	2072.4	2071.0	2067.1	2066.3	2064.0	2064.0
20°	2140.3	2138.1	2135.7	2132.7	2129.0	2125.1	2124.3	2125.7
22.5°	2212.0	2211.3	2211.3	2209.7	2204.4	2200.6	2198.3	2198.3
25°	2308.1	2301.3	2301.3	2300.5	2298.3	2296.0	2291.3	2293.6
27.5°	2416.4	2412.7	2415.7	2415.0	2412.7	2412.7	2409.7	2409.7
30°	2549.8	2548.4	2553.1	2549.2	2541.6	2540.8	2537.7	2533.8
32.5°	2704.0	2702.6	2709.4	2704.7	2692.6	2685.8	2679.6	2676.6
35°	2875.7	2876.5	2884.7	2881.8	2868.0	2863.4	2852.7	2851.2
37.5°	3063.3	3075.4	3090.0	3093.0	3081.5	3078.5	3067.2	3061.0
40°	3283.8	3299.7	3321.8	3327.2	3314.9	3312.7	3296.7	3288.2
42.5°	3518.7	3546.1	3573.5	3578.2	3565.9	3553.8	3538.5	3532.3
45°	3781.1	3813.8	3849.6	3858.8	3840.6	3826.1	3806.2	3806.2
47.5°	4075.5	4116.7	4157.0	4182.2	4165.5	4150.2	4126.5	4111.4
50°	4423.3	4479.8	4532.4	4558.3	4531.6	4502.7	4461.4	4447.7
52.5°	4859.7	4920.6	4966.4	4952.6	4911.5	4871.0	4826.1	4807.6
55°	5416.4	5437.0	5437.0	5385.2	5302.8	5235.0	5163.9	5140.3
57.5°	6112.8	6033.5	5911.4	5756.6	5562.1	5392.7	5278.4	5224.3
60°	6931.3	6549.9	6119.0	5695.7	5347.8	5061.1	4890.9	4813.1
62.5°	7476.7	6478.9	5615.6	4935.8	4435.6	4090.0	3855.0	3763.4
65°	6987.7	5403.5	4247.0	3434.0	2888.6	2537.0	2304.3	2219.0
67.5°	5118.2	3385.9	2261.7	1620.9	1187.6	947.4	852.0	812.3
70°	2297.4	1192.2	730.7	570.6	492.0	451.6	434.1	428.0
72.5°	692.7	501.2	422.6	381.4	350.1	330.2	315.8	314.2
75°	418.0	347.9	308.9	284.6	264.7	248.7	241.0	238.8
77.5°	292.2	255.5	237.2	219.6	204.5	192.1	185.4	180.0
80°	205.3	187.7	179.2	169.3	159.4	148.0	138.1	133.5
82.5°	137.4	133.5	133.5	127.4	118.9	108.3	88.6	83.9
85°	88.6	87.8	89.2	87.0	80.8	69.3	57.2	54.2
87.5°	41.2	42.0	46.5	45.8	44.2	36.7	28.9	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)