

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: P190832

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190832
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16693.5 lumens
Efficiency: N/A
Efficacy: 129.4 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

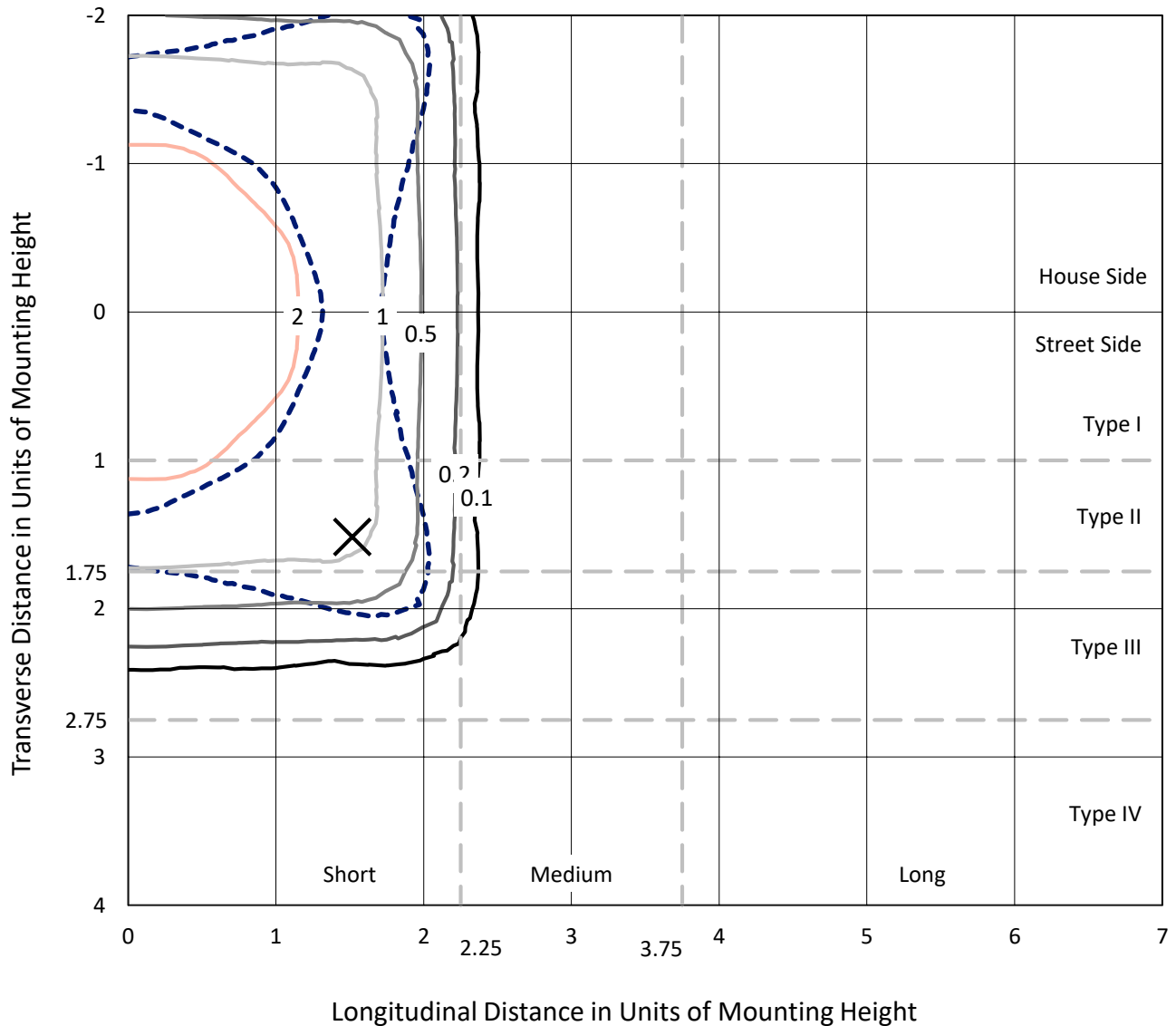
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

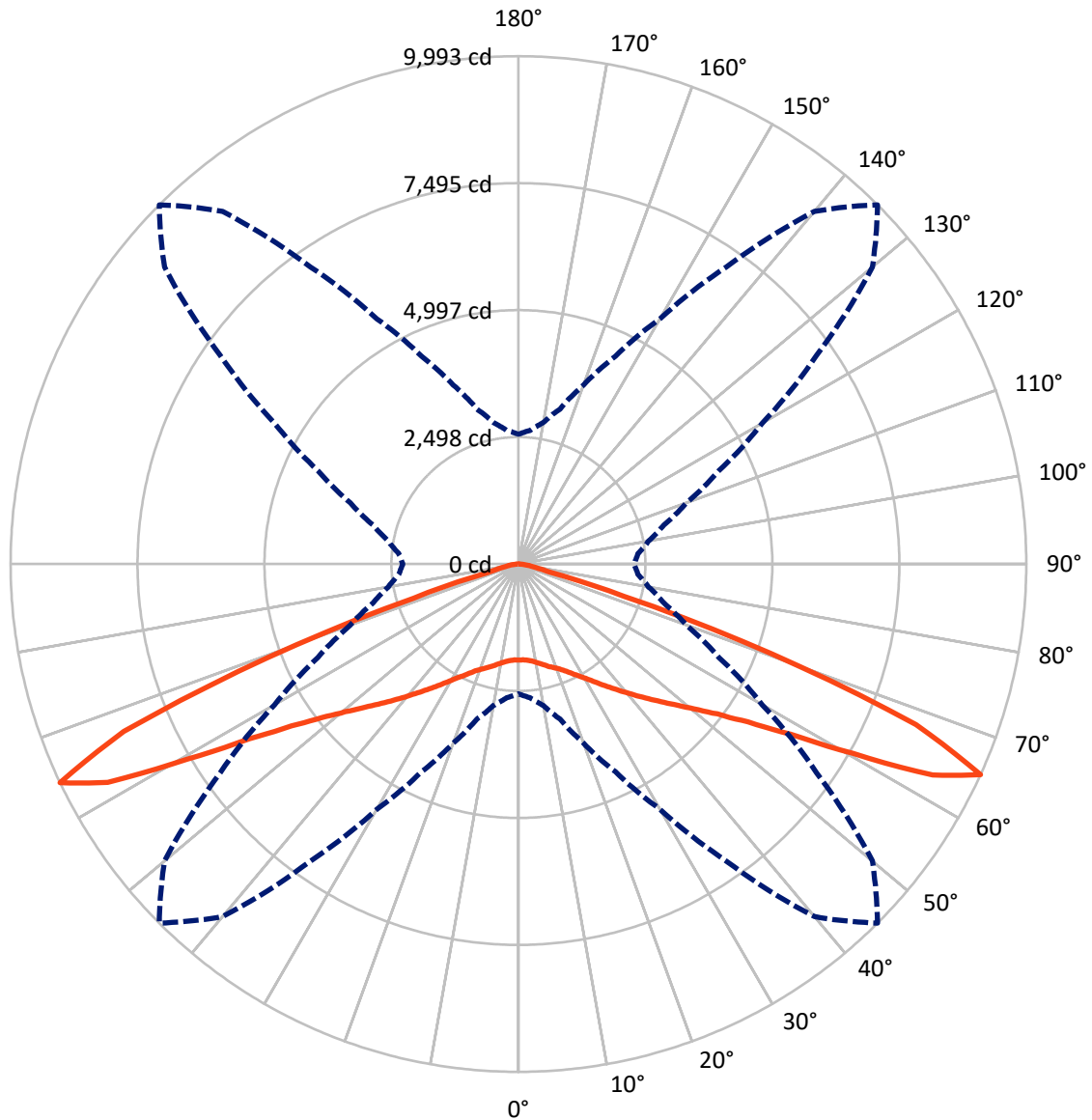
✕ Max cd
 - - - 1/2 Max cd



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	8346.8	0.0	8346.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8346.8	0.0	8346.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16693.5	0.0	16693.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.1
10°-20°	590.5	3.5
20°-30°	1104.0	6.6
30°-40°	1867.2	11.2
40°-50°	3053.2	18.3
50°-60°	4855.0	29.1
60°-70°	4388.6	26.3
70°-80°	555.4	3.3
80°-90°	95.5	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°	16693.5	100.0
0°-180°	16693.5	100.0



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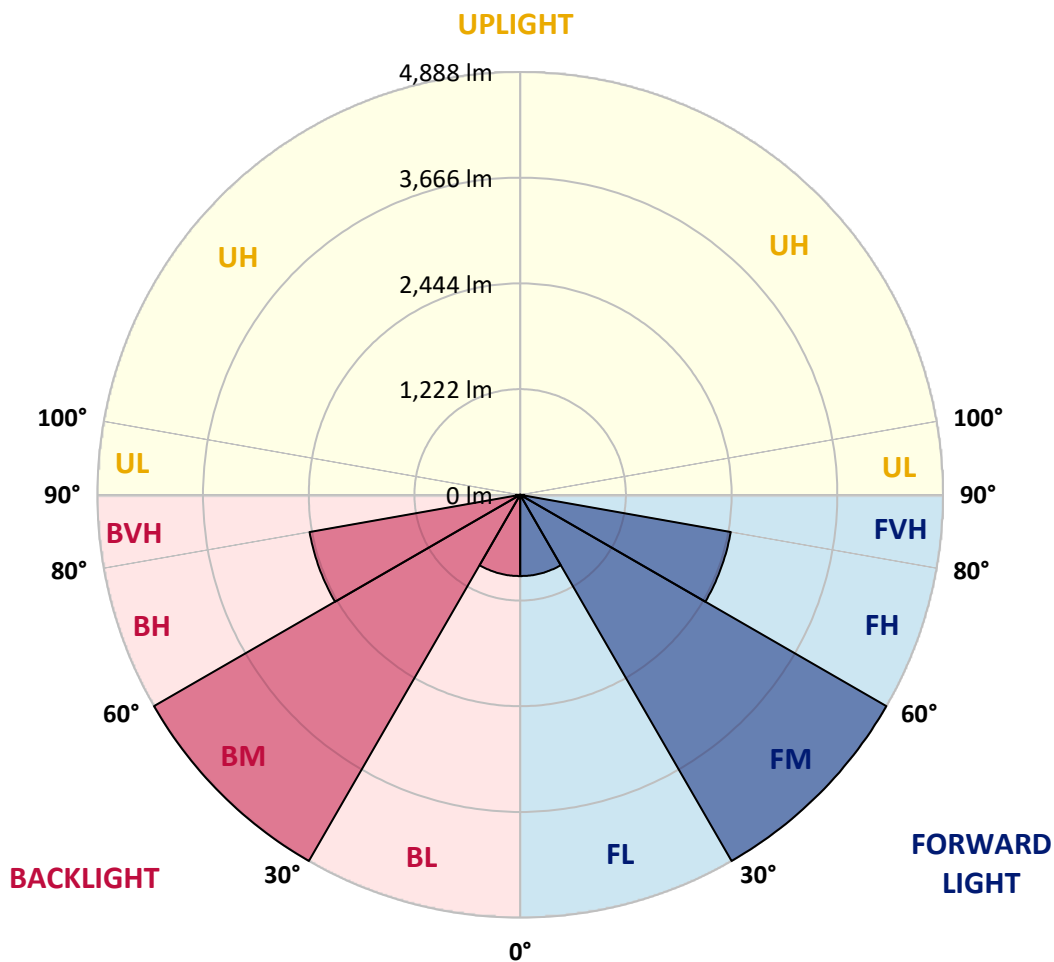
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.3	5.6			
FM	(30°-60°)	4887.7	29.3			
FH	(60°-80°)	2472.0	14.8			G2/5000
FVH	(80°-90°)	47.8	0.3			G1/100
BL	(0°-30°)	939.3	5.6	B2/1000		
BM	(30°-60°)	4887.7	29.3	B3/5000		
BH	(60°-80°)	2472.0	14.8	B3/2500		G2/5000
BVH	(80°-90°)	47.8	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°	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9
2.5°	1890.4	1892.0	1893.6	1892.0	1893.6	1891.2	1889.7	1892.0	1889.7	1887.3	1888.9
5°	1906.9	1907.6	1907.6	1905.3	1907.6	1906.1	1903.7	1906.9	1904.5	1902.2	1903.7
7.5°	1934.2	1937.4	1935.0	1932.7	1934.2	1932.7	1931.1	1931.8	1931.1	1928.8	1929.5
10°	1971.0	1973.3	1971.7	1971.0	1972.6	1971.7	1970.2	1969.4	1970.2	1967.9	1967.9
12.5°	2015.5	2014.8	2014.0	2014.8	2017.1	2017.1	2016.3	2017.1	2018.7	2019.4	2017.9
15°	2059.3	2060.8	2060.8	2060.8	2065.5	2069.5	2071.8	2073.4	2076.5	2077.3	2074.1
17.5°	2114.0	2114.0	2113.3	2114.0	2118.7	2125.0	2127.3	2130.5	2133.6	2135.9	2132.0
20°	2175.0	2176.6	2176.6	2178.2	2184.4	2191.5	2191.5	2193.0	2191.5	2193.0	2190.6
22.5°	2249.3	2254.0	2254.0	2254.8	2261.0	2269.6	2267.3	2269.6	2265.7	2268.8	2265.7
25°	2346.2	2353.3	2351.8	2351.8	2356.4	2361.9	2362.7	2367.3	2366.6	2370.5	2368.1
27.5°	2455.7	2466.6	2469.8	2469.0	2472.2	2477.6	2479.1	2484.6	2481.5	2484.6	2483.1
30°	2587.0	2591.7	2598.0	2600.3	2604.2	2609.8	2609.8	2610.5	2606.6	2611.3	2613.6
32.5°	2723.1	2731.7	2737.9	2752.0	2759.0	2763.0	2762.2	2763.7	2759.8	2766.1	2770.8
35°	2902.9	2909.2	2919.3	2930.2	2939.7	2938.8	2936.5	2937.3	2937.3	2942.8	2947.4
37.5°	3119.5	3121.0	3134.3	3150.0	3154.7	3150.0	3135.9	3132.8	3125.7	3132.8	3140.6
40°	3348.5	3354.1	3380.6	3390.8	3393.1	3384.5	3364.2	3352.4	3336.9	3345.5	3356.4
42.5°	3588.6	3599.6	3623.7	3641.7	3649.6	3644.1	3615.9	3597.9	3577.7	3582.3	3593.2
45°	3854.4	3867.7	3902.0	3919.2	3934.2	3925.6	3898.2	3870.8	3838.7	3841.1	3858.3
47.5°	4151.4	4164.7	4209.3	4238.3	4246.1	4244.5	4214.0	4176.5	4132.7	4131.2	4146.0
50°	4484.5	4497.8	4553.4	4597.9	4620.6	4618.2	4582.3	4529.1	4475.9	4476.7	4495.5
52.5°	4809.8	4826.2	4884.1	4960.7	5005.2	5037.3	5015.4	4965.4	4900.4	4902.0	4919.3
55°	5114.7	5142.1	5208.5	5312.5	5395.3	5485.3	5511.0	5509.5	5470.4	5481.4	5498.6
57.5°	5262.5	5303.1	5405.5	5569.7	5738.5	5921.6	6076.3	6192.0	6241.3	6315.6	6298.4
60°	4982.6	5047.4	5198.3	5440.0	5773.7	6155.3	6564.2	6963.7	7304.6	7561.8	7414.0
62.5°	4079.5	4164.0	4346.9	4656.6	5161.6	5772.2	6554.8	7499.3	8528.1	9148.9	8705.6
65°	2552.7	2640.2	2826.3	3157.7	3748.8	4507.9	5569.7	7134.9	9057.4	9993.2	9091.1
67.5°	995.2	1043.0	1143.8	1355.7	1799.8	2475.2	3540.8	5317.2	7616.5	8436.7	7475.0
70°	498.8	503.5	522.2	561.4	656.7	852.9	1297.8	2465.1	4368.0	5275.8	4210.9
72.5°	360.4	361.2	370.6	387.8	418.3	462.1	546.5	754.4	1420.6	2171.1	1331.5
75°	276.0	279.1	284.6	294.0	310.4	332.3	362.7	434.7	538.7	624.7	525.4
77.5°	212.7	218.9	222.8	231.4	241.6	256.5	265.0	292.4	340.1	358.0	352.6
80°	161.8	167.4	175.9	182.9	190.0	197.0	193.8	206.4	231.4	246.2	238.4
82.5°	103.2	109.5	134.5	140.8	143.8	148.5	143.1	143.8	154.8	164.2	154.8
85°	66.5	70.4	85.2	93.0	93.8	97.0	94.6	89.1	89.1	81.3	91.5
87.5°	30.5	31.3	38.3	45.3	47.0	42.2	41.4	39.9	32.0	30.5	32.8
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°	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9	1888.9
2.5°	1888.1	1889.7	1890.4	1892.8	1893.6	1893.6	1894.4	1895.9
5°	1903.0	1905.3	1906.1	1909.2	1910.0	1909.2	1910.8	1911.6
7.5°	1929.5	1933.5	1935.0	1938.2	1935.8	1938.9	1939.7	1939.7
10°	1968.7	1972.6	1973.3	1976.4	1974.9	1976.4	1976.4	1974.9
12.5°	2020.2	2021.0	2018.7	2021.0	2017.9	2019.4	2017.1	2015.5
15°	2077.3	2075.0	2069.5	2069.5	2064.8	2065.5	2064.8	2064.0
17.5°	2132.9	2128.1	2124.3	2122.6	2118.7	2117.9	2115.6	2115.6
20°	2193.8	2191.5	2189.1	2185.9	2182.1	2178.2	2177.4	2179.0
22.5°	2267.3	2266.6	2266.6	2264.9	2259.5	2255.6	2253.3	2253.3
25°	2365.8	2358.7	2358.7	2358.0	2355.7	2353.3	2348.6	2350.9
27.5°	2476.8	2472.9	2476.1	2475.2	2472.9	2472.9	2469.8	2469.8
30°	2613.6	2612.1	2616.7	2612.8	2605.0	2604.2	2601.2	2597.2
32.5°	2771.6	2769.9	2777.0	2772.3	2759.8	2752.8	2746.5	2743.5
35°	2947.4	2948.2	2956.8	2953.8	2939.7	2934.9	2924.0	2922.5
37.5°	3139.8	3152.3	3167.2	3170.3	3158.6	3155.4	3143.7	3137.5
40°	3365.7	3382.2	3404.8	3410.3	3397.8	3395.5	3379.0	3370.4
42.5°	3606.5	3634.6	3662.9	3667.5	3655.0	3642.5	3626.9	3620.6
45°	3875.4	3909.1	3945.8	3955.2	3936.5	3921.6	3901.3	3901.3
47.5°	4177.3	4219.5	4260.9	4286.8	4269.5	4253.9	4229.7	4214.0
50°	4533.8	4591.6	4645.6	4672.1	4644.8	4615.1	4572.9	4558.8
52.5°	4981.0	5043.6	5090.4	5076.4	5034.1	4992.7	4946.6	4927.9
55°	5551.8	5572.8	5572.8	5519.6	5435.2	5365.7	5293.0	5268.7
57.5°	6265.6	6184.2	6059.1	5900.4	5701.0	5527.5	5410.2	5354.7
60°	7104.4	6713.5	6271.8	5837.9	5481.4	5187.4	5013.1	4933.3
62.5°	7663.4	6640.8	5755.7	5059.2	4546.3	4192.2	3951.4	3857.5
65°	7162.3	5538.5	4353.2	3519.8	2960.7	2600.3	2361.9	2274.3
67.5°	5246.0	3470.5	2318.1	1661.4	1217.3	971.0	873.3	832.7
70°	2354.8	1222.0	749.0	584.8	504.3	462.9	444.9	438.6
72.5°	709.9	513.6	433.1	390.9	358.9	338.5	323.7	322.1
75°	428.4	356.5	316.6	291.6	271.3	254.9	247.0	244.7
77.5°	299.4	261.9	243.2	225.2	209.5	197.0	190.0	184.5
80°	210.3	192.3	183.7	173.6	163.4	151.7	141.5	136.8
82.5°	140.8	136.8	136.8	130.5	121.9	111.0	90.7	86.0
85°	90.7	89.9	91.5	89.1	82.9	71.1	58.6	55.5
87.5°	42.2	43.0	47.7	47.0	45.3	37.5	29.7	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)