

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: P192581

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192581
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 14647.3 lumens
Efficiency: N/A
Efficacy: 118.1 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): 124
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

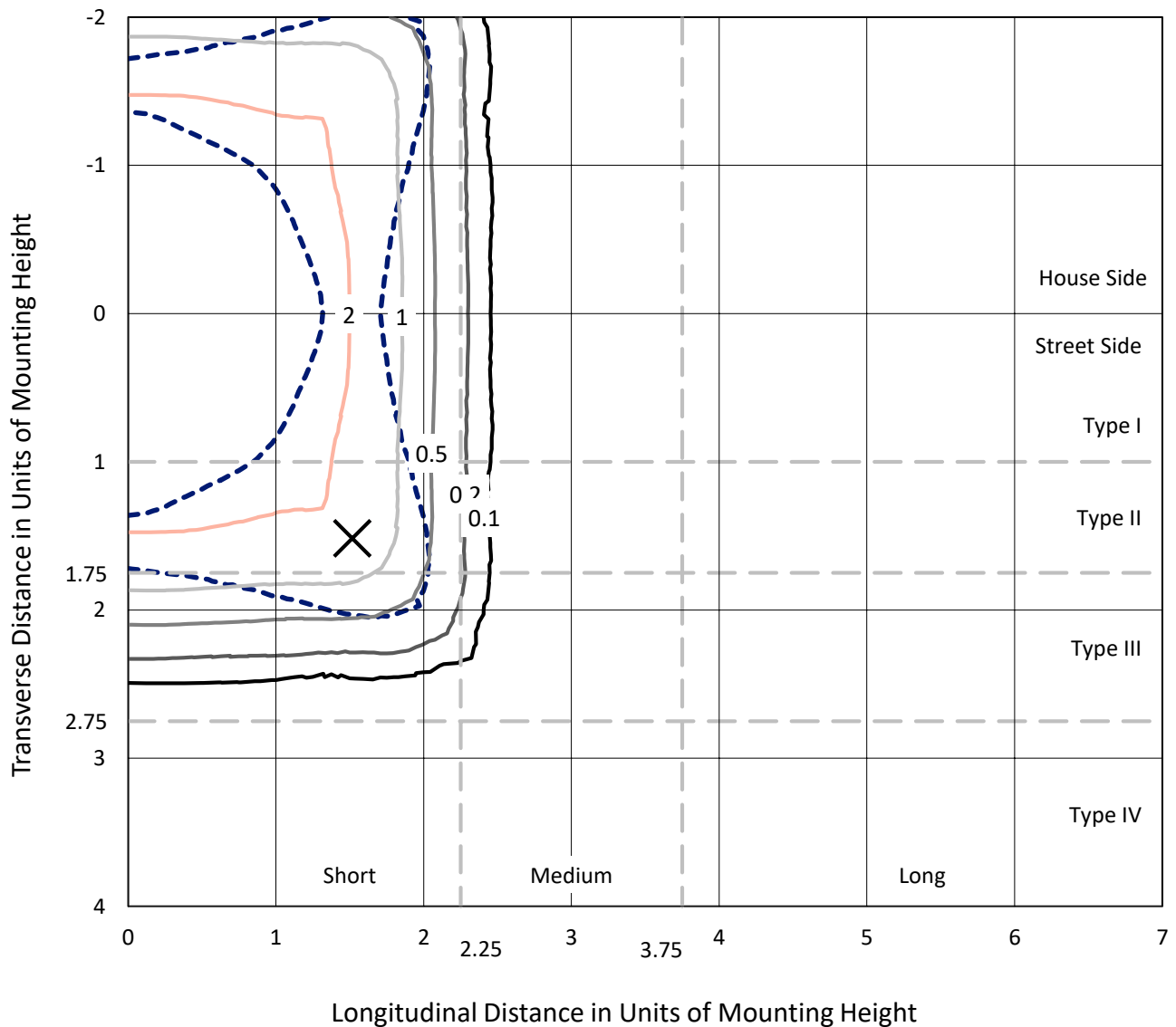


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

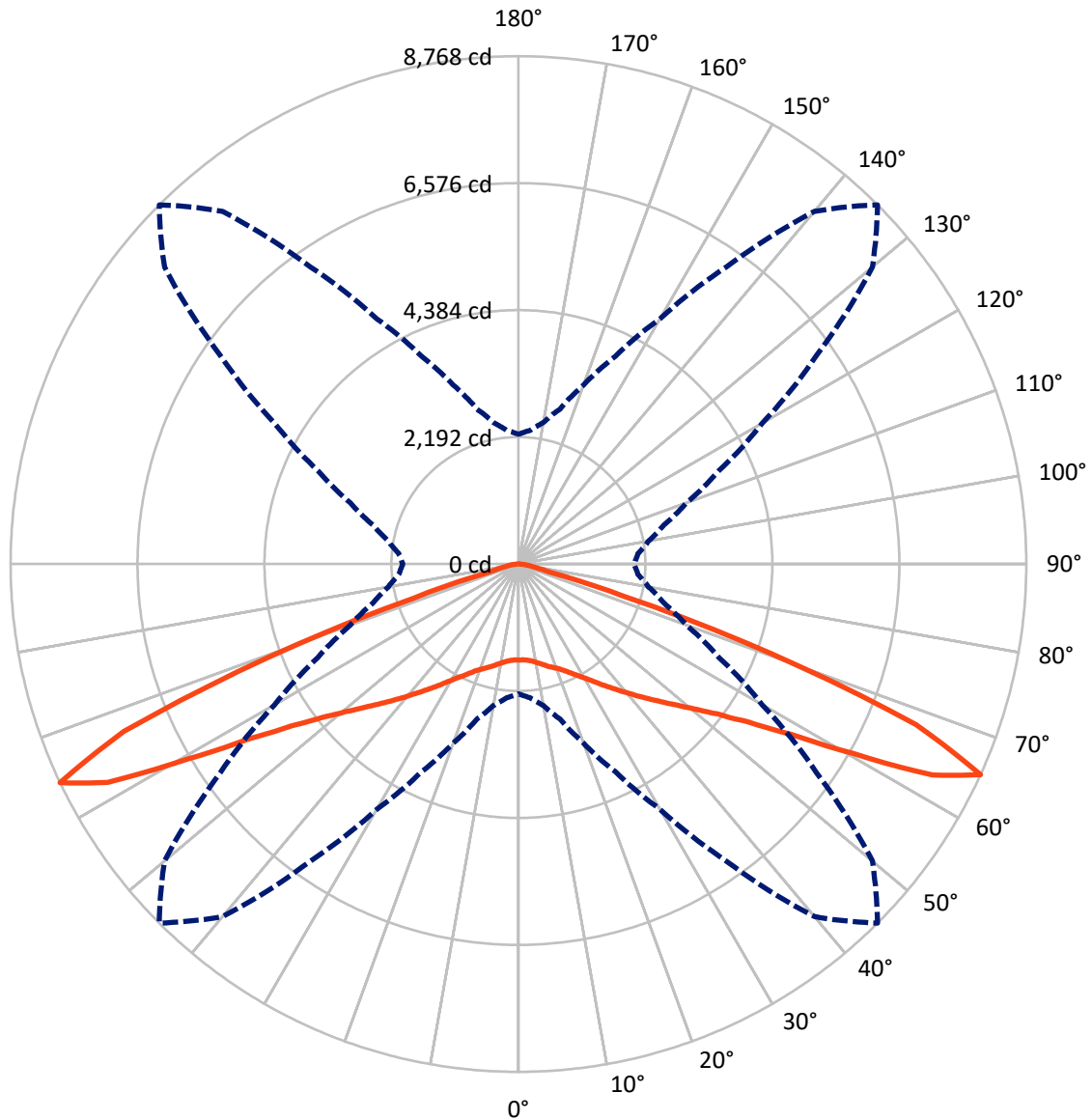


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Short - Full Cutoff

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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
House Side	Lumens	7323.6	0.0	7323.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7323.6	0.0	7323.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14647.3	0.0	14647.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.1
10°-20°	518.1	3.5
20°-30°	968.7	6.6
30°-40°	1638.4	11.2
40°-50°	2678.9	18.3
50°-60°	4259.9	29.1
60°-70°	3850.7	26.3
70°-80°	487.3	3.3
80°-90°	83.8	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°	14647.3	100.0
0°-180°	14647.3	100.0

Coefficient of Utilization



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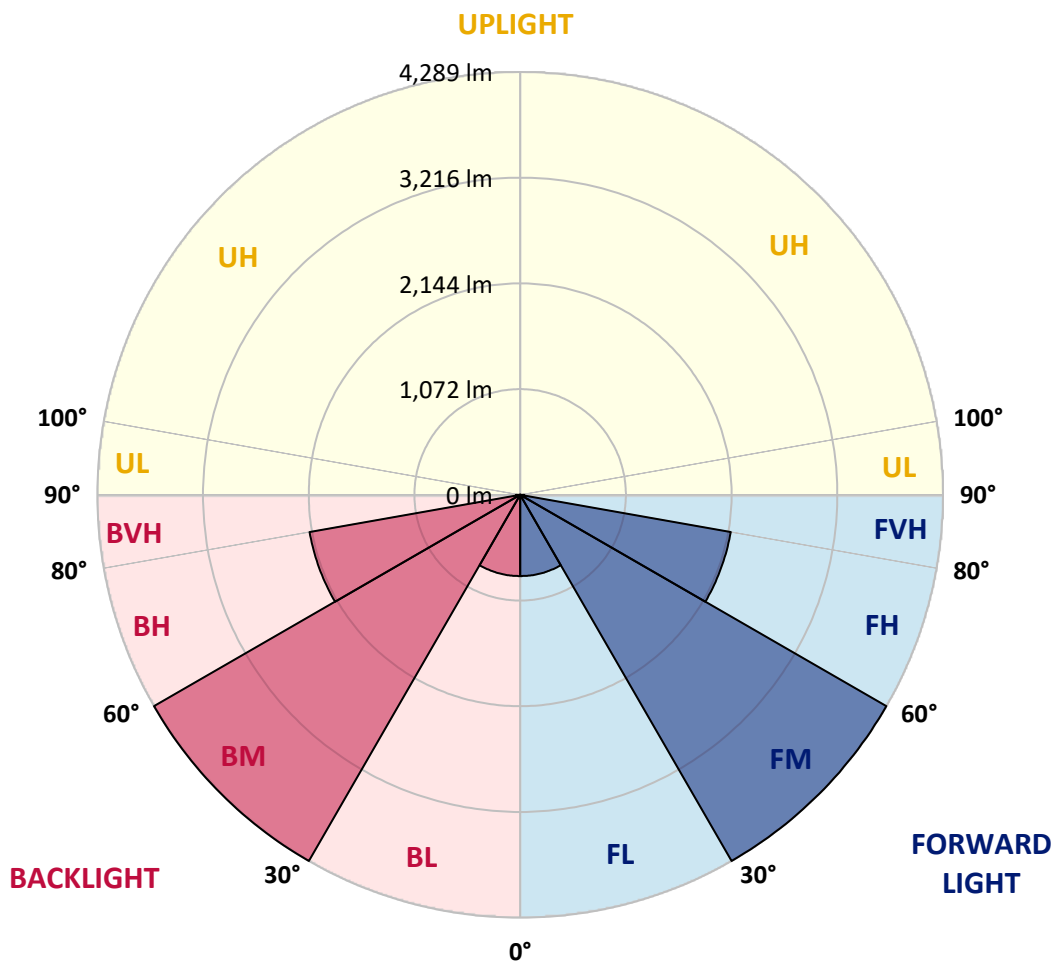
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	824.2	5.6			
FM	(30°-60°)	4288.6	29.3			
FH	(60°-80°)	2169.0	14.8			G2/5000
FVH	(80°-90°)	41.9	0.3			G1/100
BL	(0°-30°)	824.2	5.6	B2/1000		
BM	(30°-60°)	4288.6	29.3	B3/5000		
BH	(60°-80°)	2169.0	14.8	B3/2500		G2/5000
BVH	(80°-90°)	41.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4
2.5°	1658.8	1660.0	1661.5	1660.0	1661.5	1659.4	1658.0	1660.0	1658.0	1656.0	1657.4
5°	1673.1	1673.9	1673.9	1671.7	1673.9	1672.4	1670.3	1673.1	1671.1	1669.1	1670.3
7.5°	1697.2	1699.8	1697.8	1695.8	1697.2	1695.8	1694.4	1695.0	1694.4	1692.3	1693.0
10°	1729.3	1731.4	1730.0	1729.3	1730.7	1730.0	1728.7	1728.1	1728.7	1726.7	1726.7
12.5°	1768.5	1767.9	1767.2	1767.9	1769.9	1769.9	1769.1	1769.9	1771.2	1771.8	1770.5
15°	1806.9	1808.2	1808.2	1808.2	1812.4	1815.8	1817.8	1819.2	1822.0	1822.7	1819.9
17.5°	1854.9	1854.9	1854.2	1854.9	1859.0	1864.5	1866.5	1869.3	1872.0	1874.2	1870.7
20°	1908.4	1909.8	1909.8	1911.2	1916.6	1922.9	1922.9	1924.2	1922.9	1924.2	1922.1
22.5°	1973.5	1977.7	1977.7	1978.3	1983.9	1991.5	1989.4	1991.5	1988.0	1990.7	1988.0
25°	2058.7	2064.8	2063.5	2063.5	2067.6	2072.3	2073.0	2077.1	2076.5	2080.0	2077.9
27.5°	2154.7	2164.3	2167.0	2166.4	2169.2	2173.9	2175.3	2180.0	2177.3	2180.0	2178.7
30°	2270.0	2274.0	2279.5	2281.6	2285.0	2289.8	2289.8	2290.5	2287.2	2291.1	2293.3
32.5°	2389.3	2396.8	2402.3	2414.6	2420.8	2424.3	2423.6	2425.0	2421.5	2426.9	2431.1
35°	2547.1	2552.6	2561.5	2571.1	2579.3	2578.6	2576.6	2577.2	2577.2	2582.1	2586.1
37.5°	2737.1	2738.5	2750.2	2763.8	2768.0	2763.8	2751.4	2748.8	2742.6	2748.8	2755.6
40°	2938.1	2942.9	2966.2	2975.1	2977.2	2969.6	2951.8	2941.5	2927.8	2935.4	2945.0
42.5°	3148.8	3158.2	3179.6	3195.3	3202.2	3197.4	3172.7	3156.9	3139.1	3143.2	3152.7
45°	3381.9	3393.6	3423.7	3438.8	3451.9	3444.4	3420.4	3396.4	3368.3	3370.2	3385.4
47.5°	3642.6	3654.2	3693.4	3718.7	3725.6	3724.2	3697.5	3664.5	3626.1	3624.7	3637.8
50°	3934.9	3946.5	3995.2	4034.3	4054.2	4052.1	4020.6	3974.0	3927.4	3928.0	3944.5
52.5°	4220.2	4234.6	4285.3	4352.6	4391.6	4419.9	4400.6	4356.7	4299.8	4301.1	4316.3
55°	4487.8	4511.8	4570.1	4661.3	4733.9	4812.9	4835.5	4834.1	4799.9	4809.5	4824.6
57.5°	4617.4	4653.1	4743.0	4886.9	5035.2	5195.8	5331.6	5433.0	5476.3	5541.4	5526.4
60°	4371.8	4428.8	4561.1	4773.1	5066.1	5400.8	5759.6	6110.1	6409.1	6634.9	6505.2
62.5°	3579.5	3653.6	3814.1	4085.7	4528.9	5064.6	5751.3	6580.0	7482.7	8027.5	7638.6
65°	2239.7	2316.7	2479.8	2770.7	3289.4	3955.4	4886.9	6260.3	7947.2	8768.3	7976.7
67.5°	873.3	915.1	1003.6	1189.5	1579.2	2171.8	3106.9	4665.4	6683.0	7402.6	6558.8
70°	437.7	441.7	458.3	492.5	576.3	748.4	1138.7	2162.9	3832.6	4629.1	3694.7
72.5°	316.2	317.0	325.1	340.3	367.0	405.5	479.5	662.0	1246.4	1905.1	1168.2
75°	242.1	244.8	249.6	258.0	272.4	291.5	318.3	381.5	472.6	548.2	461.0
77.5°	186.7	192.1	195.5	203.0	212.0	225.0	232.5	256.5	298.4	314.2	309.4
80°	142.0	146.9	154.4	160.5	166.7	172.8	170.1	181.2	203.0	216.2	209.2
82.5°	90.5	96.0	118.0	123.5	126.2	130.3	125.5	126.2	135.8	144.0	135.8
85°	58.4	61.7	74.8	81.6	82.3	85.1	83.0	78.2	78.2	71.3	80.3
87.5°	26.8	27.5	33.7	39.8	41.2	37.0	36.4	35.0	28.1	26.8	28.9
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°	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4	1657.4
2.5°	1656.7	1658.0	1658.8	1660.7	1661.5	1661.5	1662.2	1663.5
5°	1669.7	1671.7	1672.4	1675.2	1675.8	1675.2	1676.6	1677.2
7.5°	1693.0	1696.5	1697.8	1700.6	1698.6	1701.2	1701.9	1701.9
10°	1727.3	1730.7	1731.4	1734.2	1732.9	1734.2	1734.2	1732.9
12.5°	1772.6	1773.3	1771.2	1773.3	1770.5	1771.8	1769.9	1768.5
15°	1822.7	1820.6	1815.8	1815.8	1811.7	1812.4	1811.7	1811.0
17.5°	1871.4	1867.2	1863.9	1862.5	1859.0	1858.4	1856.4	1856.4
20°	1924.9	1922.9	1920.8	1918.0	1914.5	1911.2	1910.5	1911.8
22.5°	1989.4	1988.6	1988.6	1987.3	1982.5	1979.1	1977.0	1977.0
25°	2075.8	2069.6	2069.6	2069.0	2066.8	2064.8	2060.7	2062.9
27.5°	2173.1	2169.8	2172.5	2171.8	2169.8	2169.8	2167.0	2167.0
30°	2293.3	2291.9	2296.0	2292.6	2285.7	2285.0	2282.3	2278.8
32.5°	2431.8	2430.5	2436.6	2432.5	2421.5	2415.4	2409.9	2407.1
35°	2586.1	2586.8	2594.4	2591.6	2579.3	2575.2	2565.6	2564.2
37.5°	2755.0	2765.9	2778.9	2781.6	2771.4	2768.6	2758.4	2752.9
40°	2953.2	2967.6	2987.4	2992.3	2981.3	2979.3	2964.9	2957.3
42.5°	3164.4	3189.2	3213.9	3218.0	3207.0	3196.1	3182.2	3176.8
45°	3400.4	3429.9	3462.2	3470.4	3453.9	3440.9	3423.1	3423.1
47.5°	3665.2	3702.2	3738.7	3761.2	3746.2	3732.6	3711.2	3697.5
50°	3978.0	4028.8	4076.1	4099.5	4075.5	4049.3	4012.3	4000.0
52.5°	4370.5	4425.3	4466.5	4454.2	4417.2	4380.8	4340.3	4323.8
55°	4871.3	4889.7	4889.7	4843.1	4768.9	4708.0	4644.2	4622.9
57.5°	5497.5	5426.2	5316.4	5177.1	5002.2	4849.9	4747.1	4698.3
60°	6233.6	5890.6	5503.0	5122.3	4809.5	4551.5	4398.6	4328.7
62.5°	6724.1	5826.8	5050.3	4438.9	3989.0	3678.3	3467.1	3384.7
65°	6284.4	4859.6	3819.6	3088.3	2597.8	2281.6	2072.3	1995.5
67.5°	4603.0	3045.0	2034.0	1457.7	1068.1	852.0	766.2	730.6
70°	2066.2	1072.2	657.2	513.1	442.5	406.1	390.3	384.8
72.5°	622.9	450.7	380.0	343.0	314.8	297.0	284.0	282.7
75°	376.0	312.8	277.8	255.8	238.0	223.7	216.8	214.7
77.5°	262.8	229.8	213.4	197.5	183.9	172.8	166.7	161.9
80°	184.5	168.8	161.1	152.3	143.3	133.1	124.1	120.0
82.5°	123.5	120.0	120.0	114.6	107.0	97.5	79.5	75.5
85°	79.5	78.8	80.3	78.2	72.7	62.4	51.5	48.7
87.5°	37.0	37.7	41.8	41.2	39.8	32.9	26.1	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)