

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: P192572

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192572
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-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 15783.6 lumens
Efficiency: N/A
Efficacy: 122.4 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

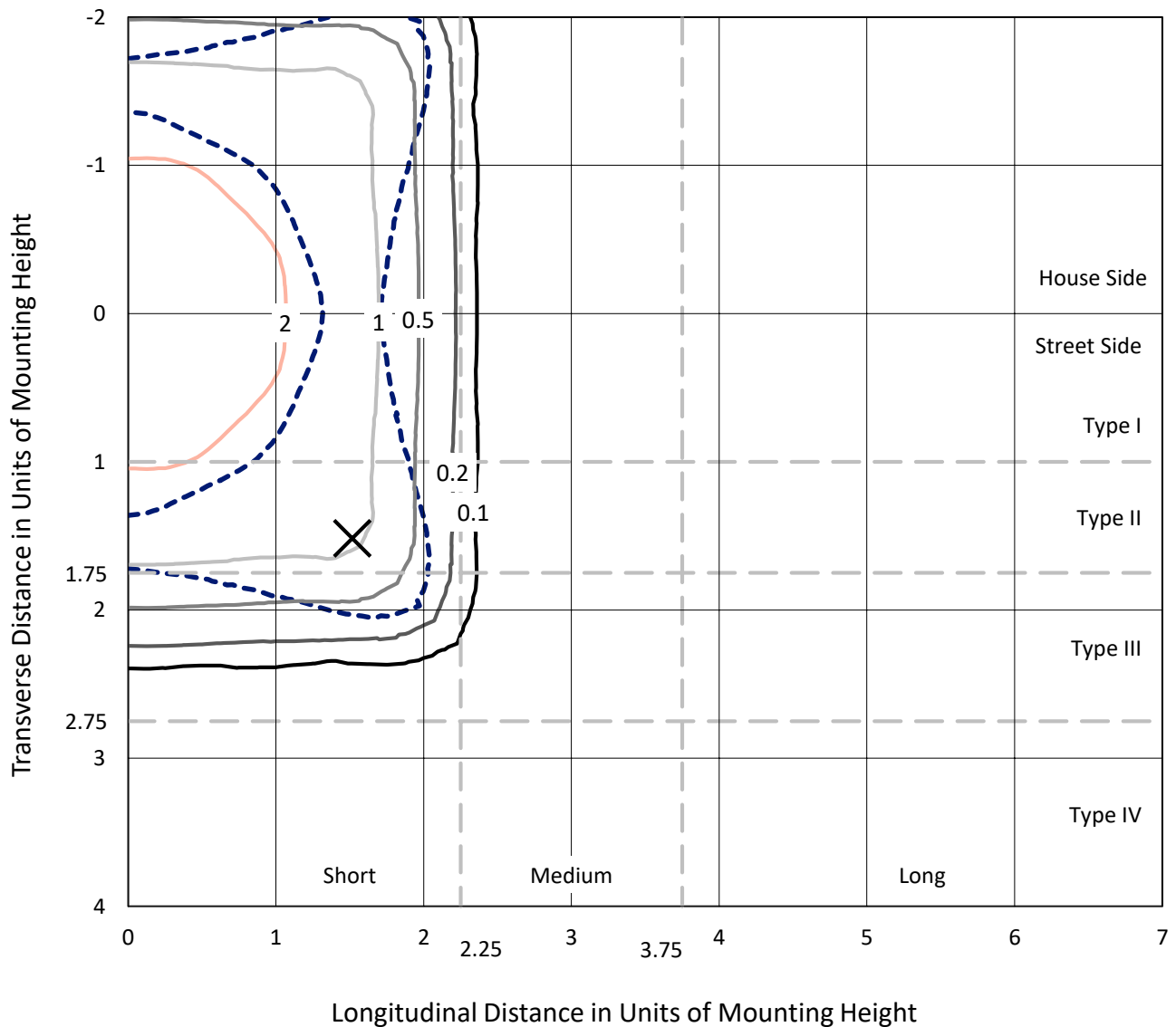


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

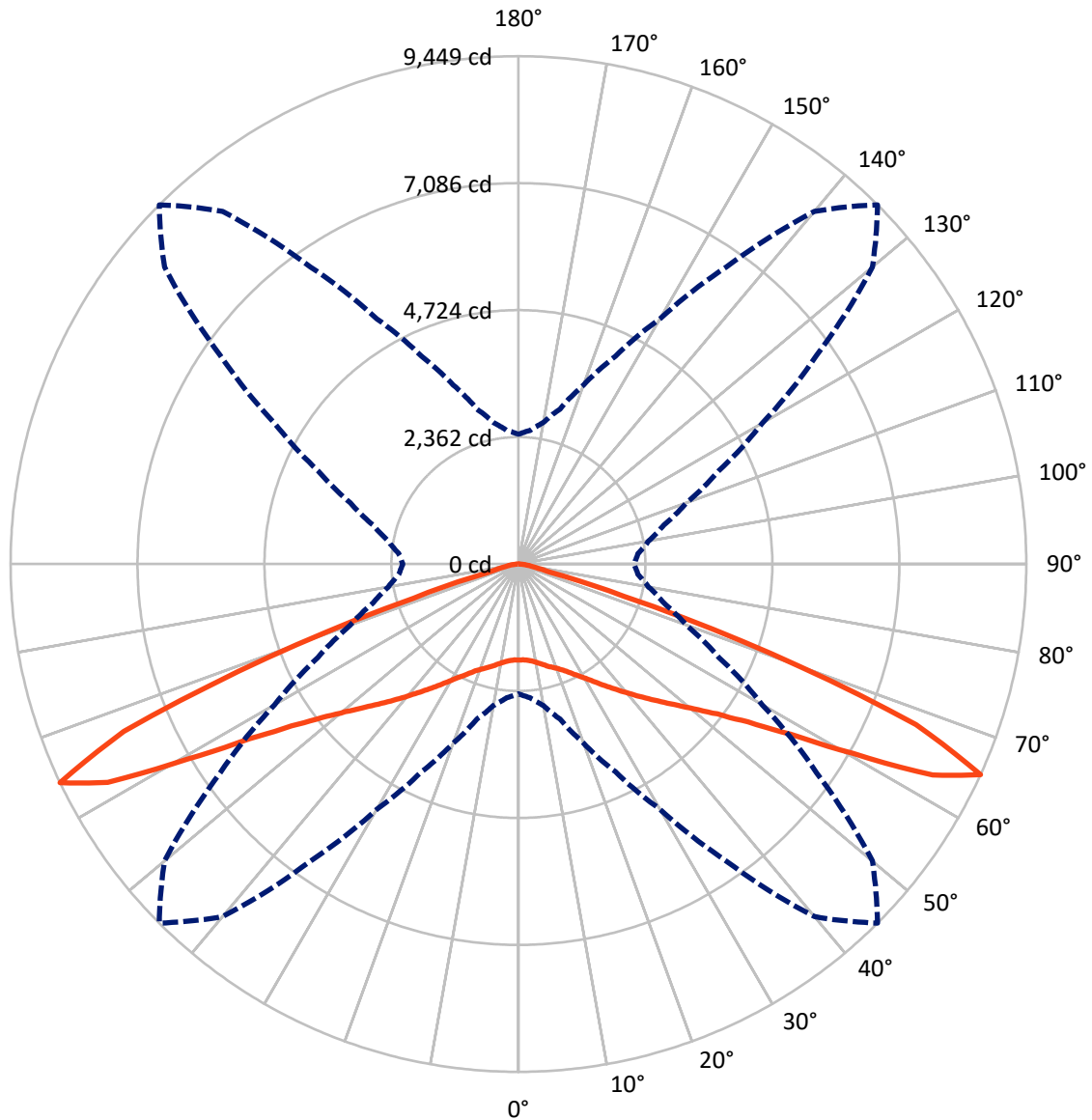


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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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	7891.8	0.0	7891.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7891.8	0.0	7891.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15783.6	0.0	15783.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.1
10°-20°	558.3	3.5
20°-30°	1043.9	6.6
30°-40°	1765.5	11.2
40°-50°	2886.7	18.3
50°-60°	4590.4	29.1
60°-70°	4149.4	26.3
70°-80°	525.1	3.3
80°-90°	90.3	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°	15783.6	100.0
0°-180°	15783.6	100.0



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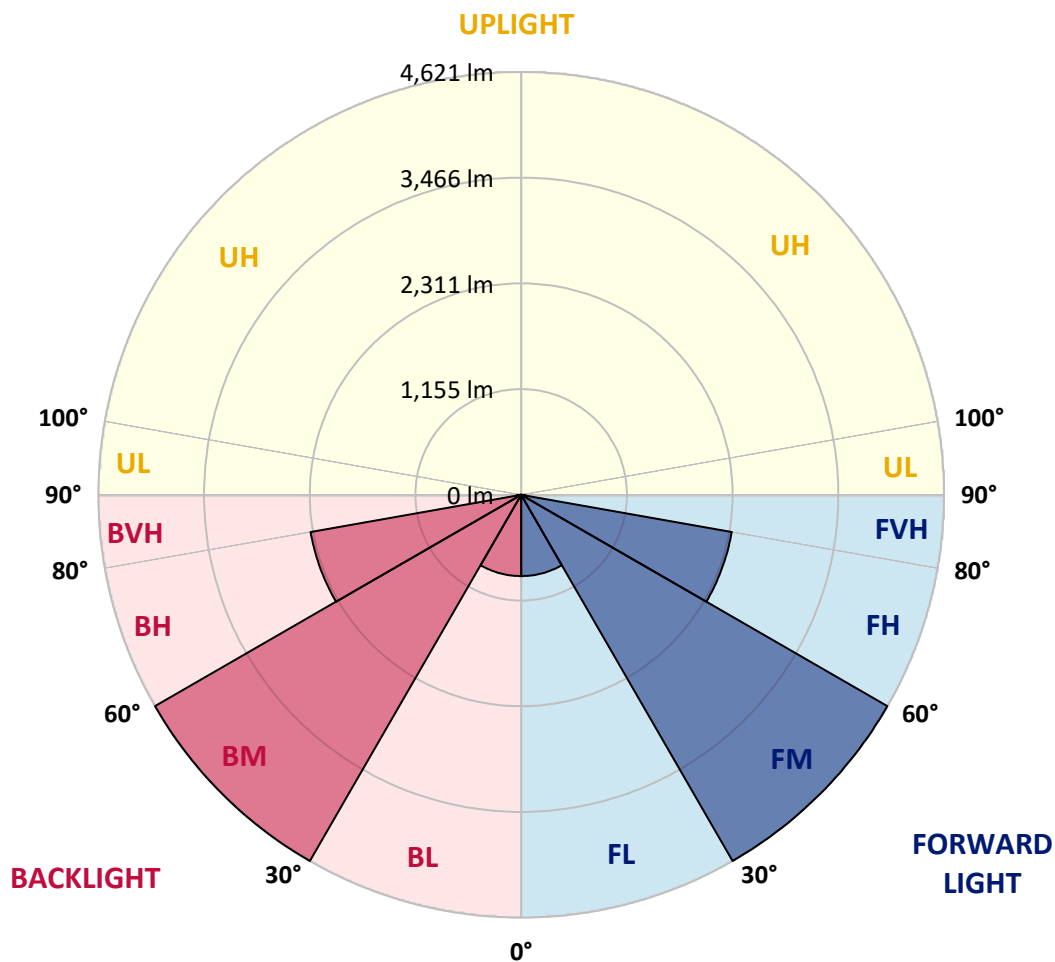
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.1	5.6			
FM	(30°-60°)	4621.3	29.3			
FH	(60°-80°)	2337.2	14.8			G2/5000
FVH	(80°-90°)	45.2	0.3			G1/100
BL	(0°-30°)	888.1	5.6	B2/1000		
BM	(30°-60°)	4621.3	29.3	B3/5000		
BH	(60°-80°)	2337.2	14.8	B3/2500		G2/5000
BVH	(80°-90°)	45.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0
2.5°	1787.4	1788.9	1790.3	1788.9	1790.3	1788.1	1786.6	1788.9	1786.6	1784.4	1786.0
5°	1802.9	1803.7	1803.7	1801.4	1803.7	1802.2	1799.9	1802.9	1800.7	1798.5	1799.9
7.5°	1828.8	1831.7	1829.5	1827.4	1828.8	1827.4	1825.8	1826.6	1825.8	1823.6	1824.4
10°	1863.5	1865.7	1864.3	1863.5	1865.0	1864.3	1862.8	1862.1	1862.8	1860.5	1860.5
12.5°	1905.7	1904.9	1904.2	1904.9	1907.1	1907.1	1906.5	1907.1	1908.6	1909.5	1907.8
15°	1947.1	1948.5	1948.5	1948.5	1953.0	1956.8	1958.9	1960.3	1963.3	1964.1	1961.1
17.5°	1998.8	1998.8	1998.1	1998.8	2003.3	2009.2	2011.4	2014.3	2017.3	2019.5	2015.9
20°	2056.5	2057.9	2057.9	2059.4	2065.3	2072.0	2072.0	2073.5	2072.0	2073.5	2071.2
22.5°	2126.7	2131.1	2131.1	2131.8	2137.7	2146.0	2143.6	2146.0	2142.2	2145.2	2142.2
25°	2218.4	2225.1	2223.5	2223.5	2228.1	2233.2	2234.0	2238.2	2237.6	2241.2	2239.0
27.5°	2321.9	2332.2	2335.2	2334.5	2337.4	2342.5	2344.0	2349.2	2346.3	2349.2	2347.8
30°	2446.0	2450.4	2456.3	2458.6	2462.2	2467.5	2467.5	2468.1	2464.6	2468.9	2471.1
32.5°	2574.7	2582.8	2588.7	2602.0	2608.7	2612.4	2611.7	2613.1	2609.4	2615.3	2619.7
35°	2744.7	2750.6	2760.2	2770.6	2779.4	2778.7	2776.5	2777.2	2777.2	2782.4	2786.7
37.5°	2949.5	2950.9	2963.4	2978.3	2982.7	2978.3	2965.0	2962.0	2955.4	2962.0	2969.3
40°	3166.0	3171.1	3196.4	3205.8	3208.2	3199.9	3180.7	3169.7	3155.0	3163.0	3173.4
42.5°	3392.9	3403.3	3426.3	3443.2	3450.6	3445.5	3418.8	3401.8	3382.5	3387.0	3397.4
45°	3644.3	3656.8	3689.3	3705.6	3719.7	3711.5	3685.7	3659.8	3629.5	3631.7	3647.9
47.5°	3925.1	3937.7	3979.9	4007.2	4014.6	4013.2	3984.3	3948.8	3907.4	3906.0	3920.0
50°	4240.2	4252.7	4305.2	4347.3	4368.7	4366.4	4332.4	4282.2	4231.9	4232.7	4250.4
52.5°	4547.6	4563.1	4617.9	4690.3	4732.3	4762.7	4742.0	4694.7	4633.3	4634.8	4651.0
55°	4836.0	4861.7	4924.7	5022.8	5101.4	5186.3	5210.7	5209.2	5172.3	5182.6	5198.9
57.5°	4975.5	5014.0	5110.8	5266.1	5425.9	5598.8	5745.1	5854.5	5901.1	5971.3	5955.0
60°	4710.9	4772.3	4915.0	5143.4	5459.0	5819.8	6206.4	6584.1	6906.4	7149.6	7009.8
62.5°	3857.2	3937.0	4110.0	4402.7	4880.3	5457.6	6197.5	7090.5	8063.3	8650.2	8231.0
65°	2413.5	2496.2	2672.3	2985.6	3544.5	4262.3	5266.1	6746.0	8563.7	9448.5	8595.5
67.5°	941.0	986.1	1081.4	1281.8	1701.6	2340.4	3347.8	5027.3	7201.4	7976.8	7067.6
70°	471.6	476.1	493.8	530.8	620.9	806.5	1227.1	2330.7	4129.9	4988.1	3981.4
72.5°	340.8	341.6	350.4	366.7	395.5	436.8	516.7	713.4	1343.2	2052.8	1258.8
75°	260.9	263.9	269.1	277.9	293.5	314.1	343.0	411.1	509.3	590.6	496.7
77.5°	201.0	206.9	210.7	218.8	228.5	242.4	250.6	276.4	321.6	338.6	333.3
80°	153.0	158.2	166.3	172.9	179.6	186.3	183.3	195.1	218.8	232.8	225.5
82.5°	97.6	103.5	127.2	133.1	136.0	140.4	135.3	136.0	146.4	155.2	146.4
85°	62.9	66.5	80.6	88.0	88.7	91.7	89.5	84.2	84.2	76.9	86.6
87.5°	28.9	29.6	36.3	42.8	44.4	39.9	39.3	37.7	30.3	28.9	31.0
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°	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0	1786.0
2.5°	1785.2	1786.6	1787.4	1789.6	1790.3	1790.3	1791.1	1792.6
5°	1799.3	1801.4	1802.2	1805.2	1805.8	1805.2	1806.6	1807.3
7.5°	1824.4	1828.0	1829.5	1832.5	1830.3	1833.3	1833.9	1833.9
10°	1861.3	1865.0	1865.7	1868.7	1867.2	1868.7	1868.7	1867.2
12.5°	1910.1	1910.8	1908.6	1910.8	1907.8	1909.5	1907.1	1905.7
15°	1964.1	1961.9	1956.8	1956.8	1952.3	1953.0	1952.3	1951.5
17.5°	2016.6	2012.1	2008.4	2007.0	2003.3	2002.5	2000.3	2000.3
20°	2074.2	2072.0	2069.8	2066.8	2063.2	2059.4	2058.7	2060.2
22.5°	2143.6	2143.0	2143.0	2141.5	2136.3	2132.6	2130.4	2130.4
25°	2236.9	2230.2	2230.2	2229.4	2227.2	2225.1	2220.5	2222.8
27.5°	2341.8	2338.1	2341.1	2340.4	2338.1	2338.1	2335.2	2335.2
30°	2471.1	2469.7	2474.1	2470.5	2463.0	2462.2	2459.3	2455.6
32.5°	2620.5	2619.1	2625.6	2621.2	2609.4	2602.8	2596.9	2594.0
35°	2786.7	2787.5	2795.7	2792.6	2779.4	2774.9	2764.6	2763.1
37.5°	2968.7	2980.5	2994.6	2997.5	2986.4	2983.5	2972.4	2966.4
40°	3182.2	3197.8	3219.3	3224.5	3212.5	3210.4	3194.8	3186.8
42.5°	3410.0	3436.5	3463.2	3467.7	3455.8	3444.0	3429.2	3423.3
45°	3664.2	3696.0	3730.7	3739.6	3721.9	3707.8	3688.6	3688.6
47.5°	3949.6	3989.5	4028.7	4053.1	4036.8	4022.1	3999.1	3984.3
50°	4286.7	4341.3	4392.3	4417.5	4391.6	4363.5	4323.6	4310.3
52.5°	4709.5	4768.6	4813.0	4799.6	4759.8	4720.5	4677.0	4659.3
55°	5249.2	5269.0	5269.0	5218.8	5139.0	5073.1	5004.4	4981.4
57.5°	5924.0	5847.1	5728.9	5578.8	5390.3	5226.2	5115.3	5062.8
60°	6717.2	6347.5	5929.9	5519.7	5182.6	4904.6	4739.7	4664.4
62.5°	7245.7	6278.8	5441.9	4783.4	4298.5	3963.6	3735.9	3647.3
65°	6771.9	5236.6	4115.9	3327.9	2799.3	2458.6	2233.2	2150.3
67.5°	4960.1	3281.4	2191.7	1570.8	1150.9	918.1	825.7	787.2
70°	2226.4	1155.4	708.1	553.0	476.8	437.6	420.6	414.7
72.5°	671.2	485.6	409.5	369.7	339.2	320.1	306.0	304.5
75°	405.2	337.1	299.4	275.8	256.5	241.0	233.6	231.4
77.5°	283.1	247.6	229.9	212.8	198.1	186.3	179.6	174.5
80°	198.9	181.8	173.7	164.1	154.5	143.4	133.9	129.4
82.5°	133.1	129.4	129.4	123.5	115.3	105.0	85.8	81.3
85°	85.8	85.0	86.6	84.2	78.3	67.3	55.4	52.5
87.5°	39.9	40.7	45.2	44.4	42.8	35.5	28.1	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)