

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: P192551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18462.6 lumens
Efficiency: N/A
Efficacy: 111.2 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

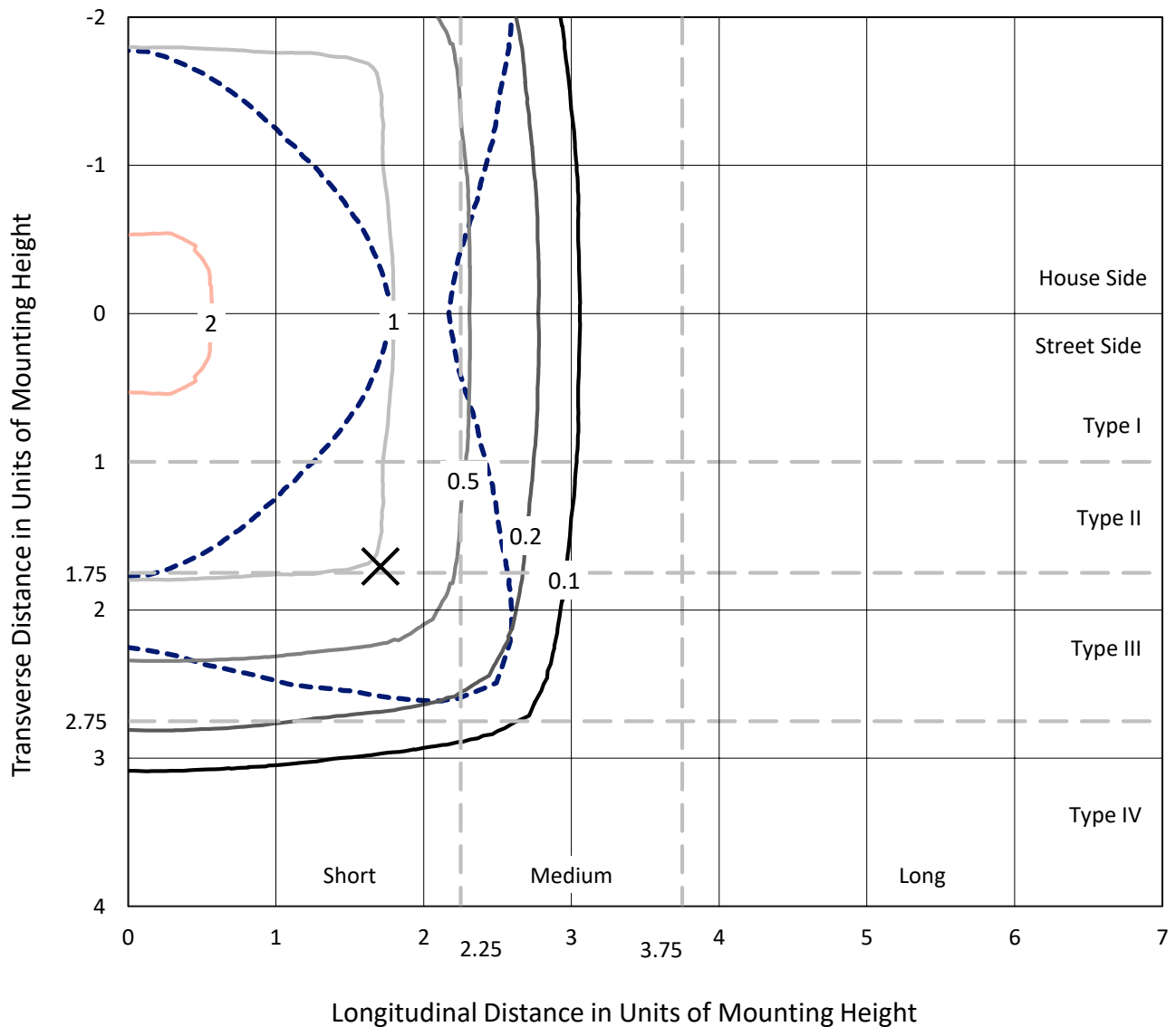
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

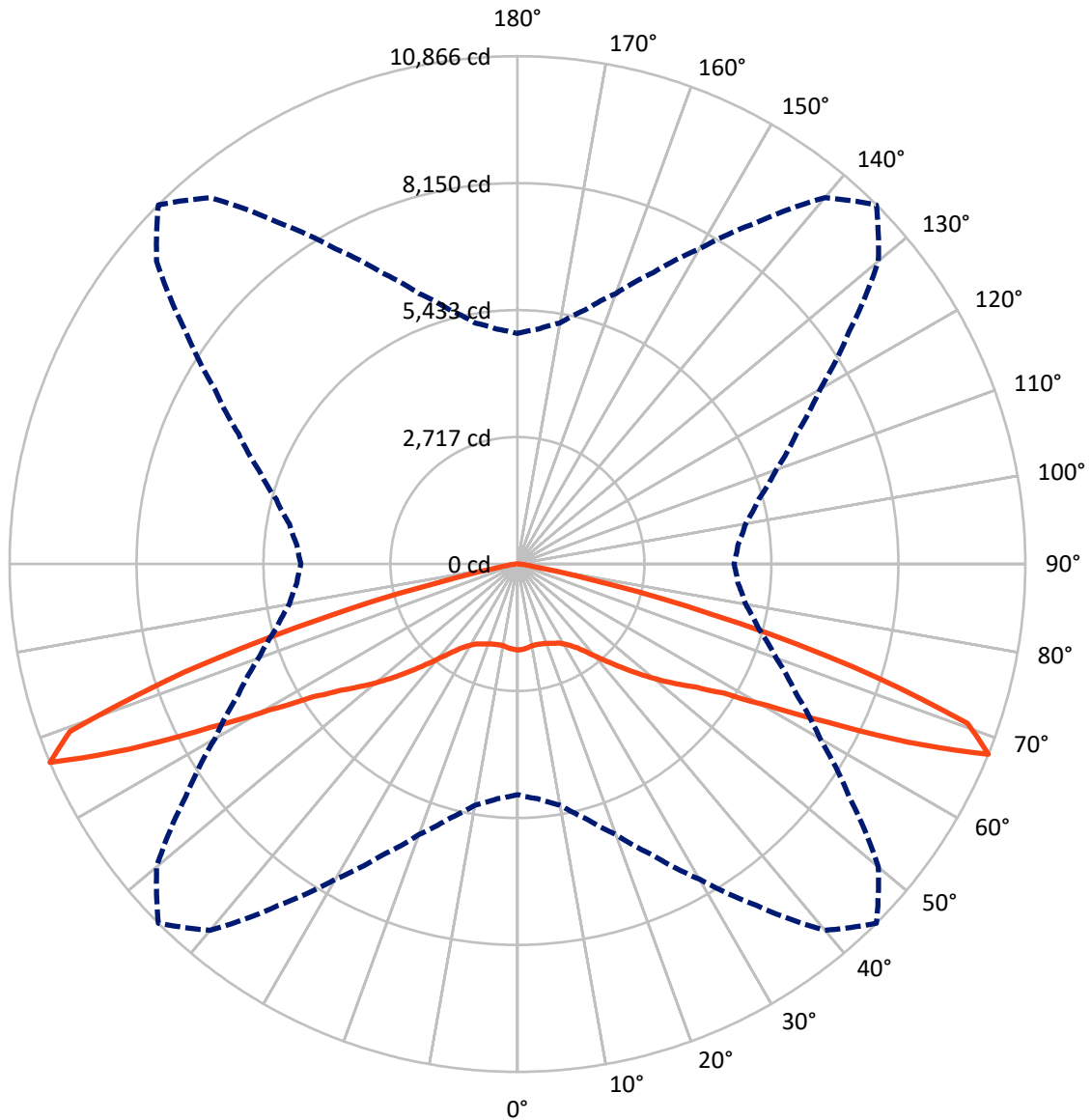
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9231.3	0.0	9231.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9231.3	0.0	9231.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18462.6	0.0	18462.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	0.9
10°-20°	499.7	2.7
20°-30°	849.5	4.6
30°-40°	1388.6	7.5
40°-50°	2479.0	13.4
50°-60°	4179.6	22.6
60°-70°	6486.2	35.1
70°-80°	2279.0	12.3
80°-90°	128.8	0.7
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°	18462.6	100.0
0°-180°	18462.6	100.0



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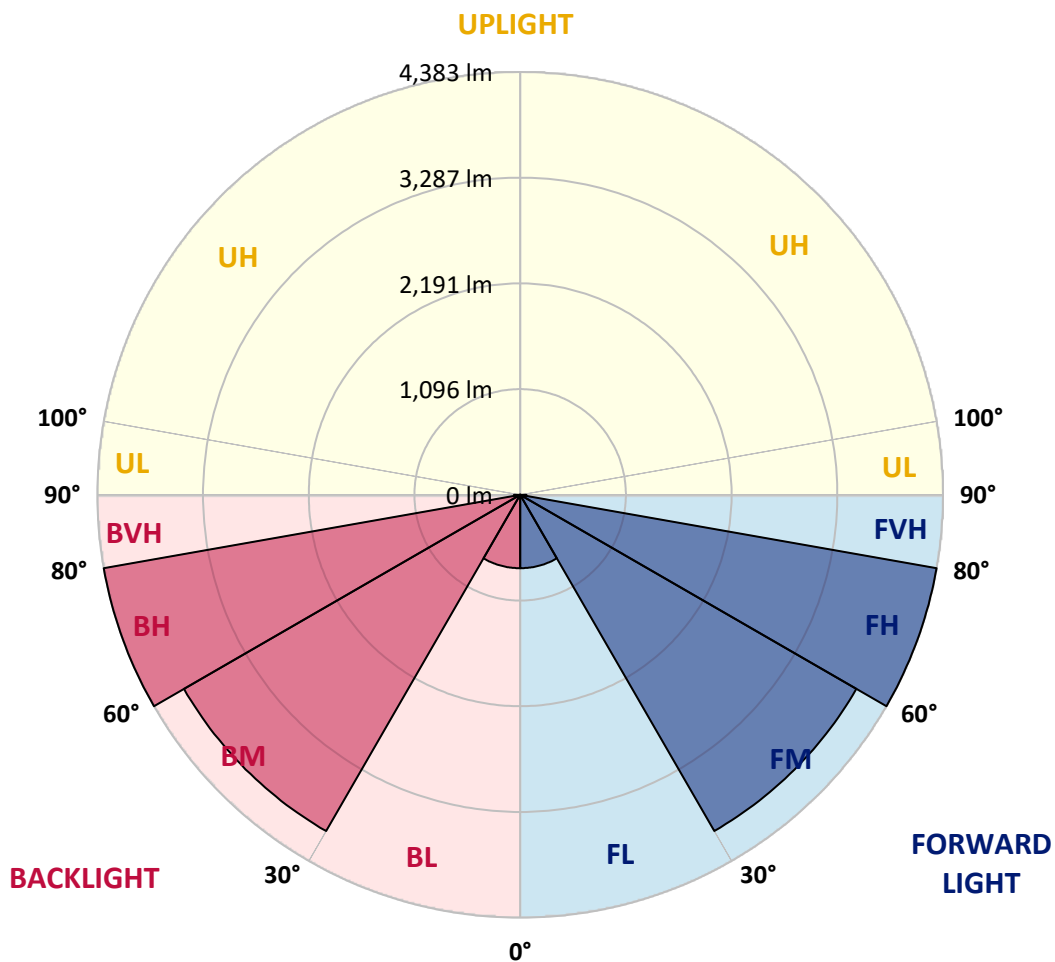
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.7	4.1			
FM	(30°-60°)	4023.6	21.8			
FH	(60°-80°)	4382.6	23.7			G2/5000
FVH	(80°-90°)	64.4	0.3			G1/100
BL	(0°-30°)	760.7	4.1	B2/1000		
BM	(30°-60°)	4023.6	21.8	B3/5000		
BH	(60°-80°)	4382.6	23.7	B4/5000		G2/5000
BVH	(80°-90°)	64.4	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°	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9
2.5°	1833.1	1834.8	1834.8	1834.8	1833.9	1833.9	1832.3	1833.9	1833.1	1830.5	1831.4
5°	1817.8	1819.5	1819.5	1818.6	1821.3	1820.4	1817.8	1819.5	1818.6	1817.0	1817.8
7.5°	1795.6	1798.3	1798.3	1797.5	1799.9	1799.2	1797.5	1798.3	1798.3	1795.6	1795.6
10°	1771.1	1772.8	1772.8	1771.9	1776.2	1776.2	1775.4	1777.8	1778.7	1776.2	1774.5
12.5°	1748.1	1750.8	1750.8	1754.1	1758.4	1760.0	1764.3	1767.7	1771.1	1770.2	1766.8
15°	1734.6	1736.3	1739.7	1743.9	1750.8	1756.7	1763.5	1771.1	1777.8	1779.7	1774.5
17.5°	1726.1	1728.7	1733.7	1739.7	1749.0	1759.2	1769.5	1779.7	1788.9	1792.3	1786.4
20°	1723.6	1725.2	1730.3	1740.5	1753.3	1768.6	1783.0	1794.9	1807.5	1811.8	1807.5
22.5°	1728.7	1732.1	1738.0	1749.9	1766.8	1786.4	1803.4	1819.5	1835.7	1843.3	1837.3
25°	1751.5	1754.9	1762.6	1777.8	1796.5	1817.0	1836.4	1855.1	1869.7	1877.2	1873.0
27.5°	1794.0	1798.3	1807.5	1822.9	1843.3	1865.4	1886.6	1901.8	1913.7	1916.3	1911.2
30°	1857.7	1867.0	1878.0	1895.1	1918.8	1937.5	1958.7	1972.3	1986.8	1986.8	1982.5
32.5°	1957.1	1966.3	1978.2	1994.4	2013.1	2033.5	2052.1	2064.0	2079.3	2080.2	2069.9
35°	2105.7	2109.9	2120.0	2130.2	2147.3	2165.1	2181.2	2188.8	2201.6	2202.4	2193.1
37.5°	2301.8	2302.6	2309.4	2312.8	2328.1	2347.7	2362.8	2367.9	2379.8	2378.1	2368.8
40°	2530.1	2534.4	2536.9	2542.0	2558.2	2576.9	2592.9	2595.6	2608.2	2605.8	2593.9
42.5°	2794.2	2796.0	2810.3	2818.1	2833.3	2842.6	2863.0	2865.6	2880.8	2874.1	2860.4
45°	3090.5	3105.8	3119.4	3134.6	3150.8	3161.9	3178.1	3174.5	3184.8	3174.5	3167.0
47.5°	3402.2	3413.2	3443.8	3467.5	3493.8	3503.2	3526.2	3515.9	3526.2	3511.6	3509.1
50°	3745.1	3764.6	3791.0	3818.2	3846.2	3861.4	3891.2	3878.4	3892.1	3878.4	3870.8
52.5°	4083.0	4088.2	4145.9	4185.8	4224.8	4242.6	4260.4	4254.5	4255.4	4254.5	4246.9
55°	4404.0	4415.9	4473.6	4527.9	4595.9	4645.9	4676.6	4673.1	4665.5	4657.8	4645.1
57.5°	4765.7	4777.6	4843.8	4910.8	4988.1	5059.5	5121.4	5185.1	5209.7	5216.5	5188.5
60°	5254.8	5253.8	5342.2	5423.7	5534.1	5640.2	5776.1	5914.4	6073.1	6147.0	6049.4
62.5°	5752.3	5772.6	5900.0	6044.3	6271.9	6493.5	6743.9	6990.2	7241.4	7446.1	7228.8
65°	5692.9	5771.0	5960.3	6287.3	6707.4	7206.7	7746.7	8318.1	8834.2	9189.2	8791.0
67.5°	4933.8	5045.0	5237.8	5635.1	6160.7	6880.6	7787.5	8917.5	10231.0	10866.1	10079.0
70°	3576.2	3701.8	3904.0	4291.9	4812.5	5496.8	6481.6	7838.4	9577.2	10217.4	9350.5
72.5°	1779.7	1847.6	1972.3	2219.4	2613.4	3168.6	4061.8	5365.9	6904.4	7492.0	6699.8
75°	604.5	635.9	657.2	737.8	862.6	1080.8	1524.9	2345.9	3578.7	4290.2	3527.8
77.5°	349.0	349.8	364.3	378.7	399.9	423.7	483.2	634.2	1097.0	1558.0	1135.2
80°	225.8	225.0	236.9	247.9	262.3	274.2	277.6	293.8	338.8	401.6	359.1
82.5°	117.1	131.5	157.9	172.3	199.5	204.7	197.9	191.9	202.9	210.6	215.7
85°	64.6	56.0	84.0	108.7	120.5	122.3	122.3	115.5	119.7	117.1	127.4
87.5°	29.7	27.2	33.1	53.5	57.0	48.4	51.0	45.1	32.2	31.4	35.6
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°	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9	1839.9
2.5°	1831.4	1832.3	1832.3	1834.8	1835.7	1837.3	1839.1	1839.9
5°	1817.0	1819.5	1817.8	1820.4	1820.4	1822.0	1822.0	1822.9
7.5°	1795.6	1798.3	1798.3	1798.3	1797.5	1799.9	1799.9	1799.9
10°	1773.6	1775.4	1774.5	1772.8	1771.1	1773.6	1772.8	1771.9
12.5°	1766.8	1762.6	1759.2	1757.6	1754.1	1754.9	1752.4	1752.4
15°	1771.1	1763.5	1757.6	1754.9	1751.5	1749.9	1748.1	1749.0
17.5°	1782.1	1772.8	1765.2	1760.9	1756.7	1754.1	1750.8	1751.5
20°	1801.6	1790.6	1779.7	1771.1	1763.5	1759.2	1756.7	1755.8
22.5°	1830.5	1814.4	1798.3	1785.6	1775.4	1769.5	1766.8	1765.2
25°	1863.6	1845.8	1827.2	1812.7	1802.6	1794.9	1789.7	1789.7
27.5°	1905.3	1890.8	1873.8	1856.9	1847.6	1839.9	1836.4	1834.8
30°	1974.9	1961.3	1947.6	1931.6	1919.6	1912.0	1906.1	1901.0
32.5°	2064.0	2053.0	2041.9	2030.0	2019.0	2008.8	1999.6	1995.3
35°	2189.7	2181.2	2173.6	2159.9	2155.6	2149.7	2144.6	2140.4
37.5°	2362.8	2359.5	2359.5	2345.0	2341.7	2339.1	2334.0	2334.9
40°	2590.4	2593.9	2589.6	2584.5	2581.9	2575.1	2575.1	2581.1
42.5°	2859.6	2862.1	2871.5	2863.0	2872.3	2863.8	2858.8	2863.0
45°	3172.1	3181.4	3200.1	3191.6	3197.5	3183.0	3165.2	3166.2
47.5°	3522.7	3531.2	3538.8	3532.9	3533.8	3510.0	3486.1	3480.2
50°	3886.9	3890.2	3894.5	3886.1	3887.8	3861.4	3834.2	3835.1
52.5°	4246.9	4263.1	4280.0	4257.1	4252.1	4222.4	4184.1	4168.8
55°	4658.7	4681.6	4662.1	4622.2	4582.4	4542.4	4492.3	4483.8
57.5°	5166.5	5127.4	5066.3	4990.6	4935.5	4879.4	4828.5	4807.3
60°	5872.8	5725.9	5615.6	5503.5	5433.0	5364.3	5297.2	5286.9
62.5°	6871.4	6617.5	6397.5	6165.7	5976.4	5828.7	5710.7	5677.5
65°	8122.8	7522.5	7002.1	6516.4	6094.5	5776.1	5575.7	5487.3
67.5°	8661.1	7475.8	6583.5	5894.1	5342.2	4956.8	4740.2	4632.4
70°	7610.8	6199.7	5229.2	4538.9	4036.4	3625.4	3429.3	3313.9
72.5°	5236.0	3943.8	3118.6	2545.4	2143.8	1799.9	1664.1	1653.9
75°	2351.0	1557.2	1073.2	827.0	696.2	605.4	577.3	556.1
77.5°	658.0	486.5	433.9	405.8	378.7	347.2	335.4	337.9
80°	320.1	302.2	290.4	272.5	247.9	221.6	209.7	214.8
82.5°	212.3	209.7	217.3	204.7	169.0	143.4	120.5	110.4
85°	129.0	130.8	133.3	134.2	113.7	79.8	54.3	61.1
87.5°	51.0	58.6	63.7	66.2	62.0	38.2	30.6	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)