

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: P268324

Luminaire Tested: **GAN-AF-03-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268324
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18194.7 lumens
Efficiency: N/A
Efficacy: 95.3 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): 191
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

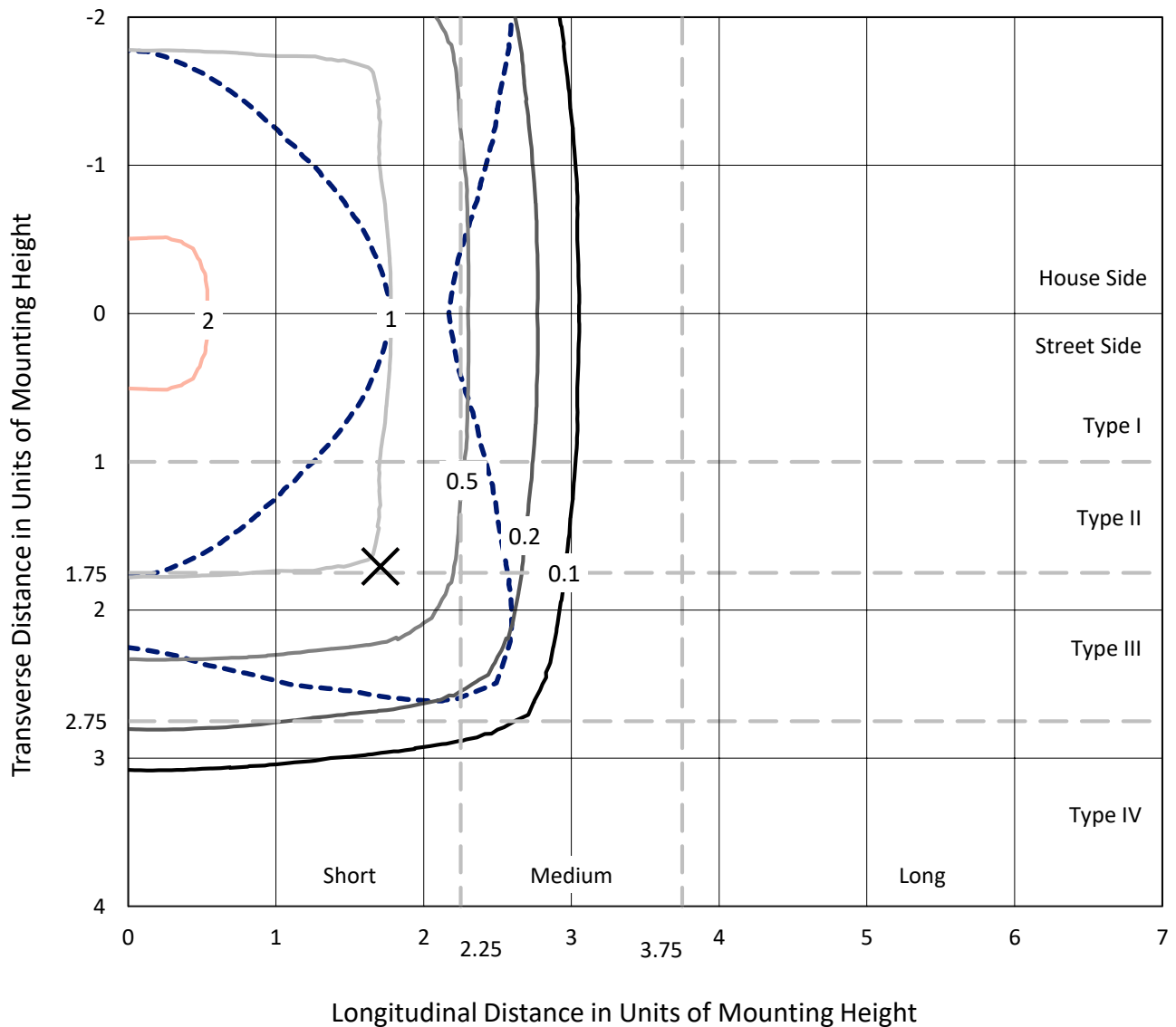


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

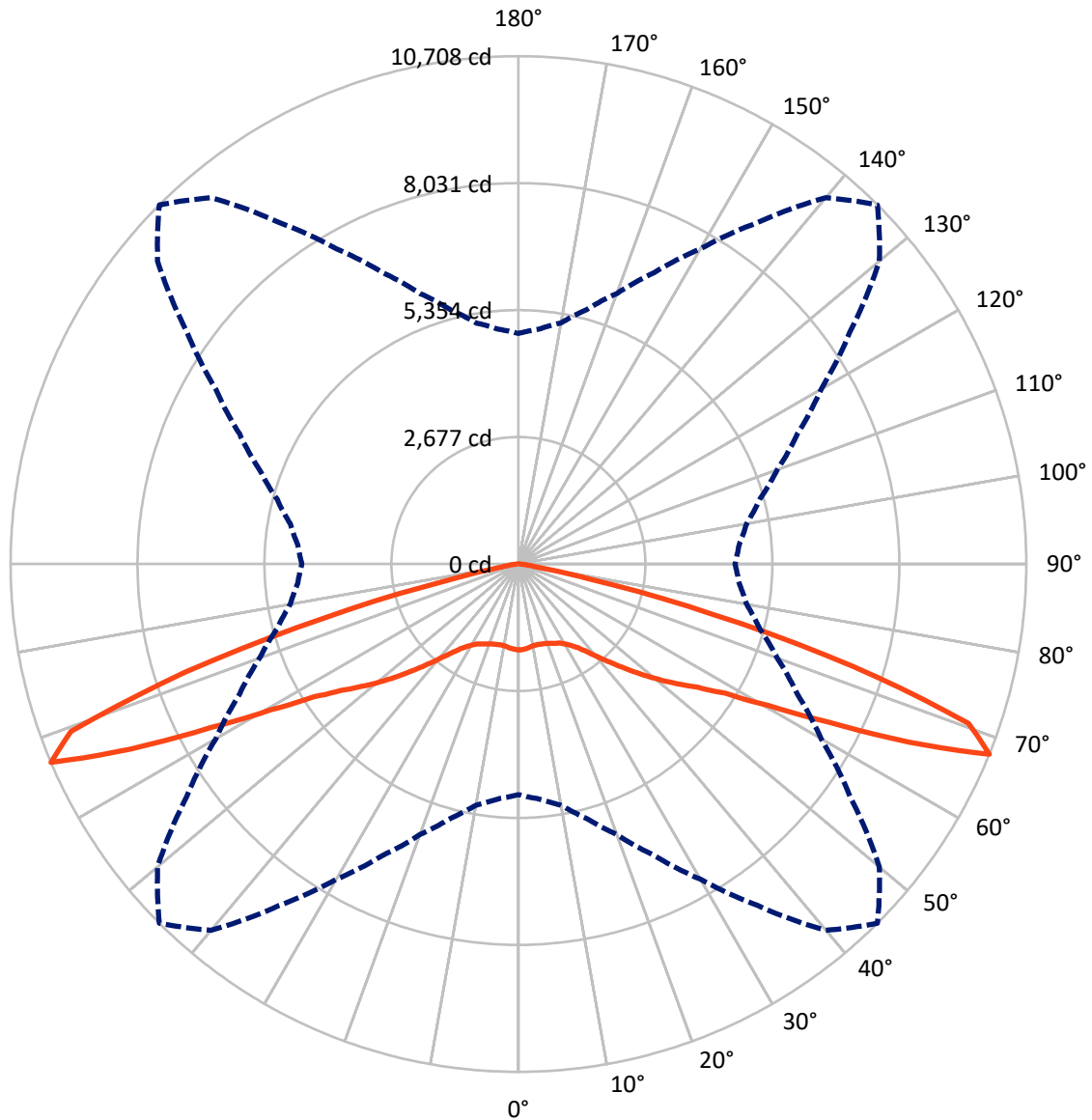


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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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	9097.4	0.0	9097.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9097.4	0.0	9097.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18194.7	0.0	18194.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	0.9
10°-20°	492.5	2.7
20°-30°	837.2	4.6
30°-40°	1368.5	7.5
40°-50°	2443.0	13.4
50°-60°	4119.0	22.6
60°-70°	6392.1	35.1
70°-80°	2245.9	12.3
80°-90°	126.9	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°	18194.7	100.0
0°-180°	18194.7	100.0



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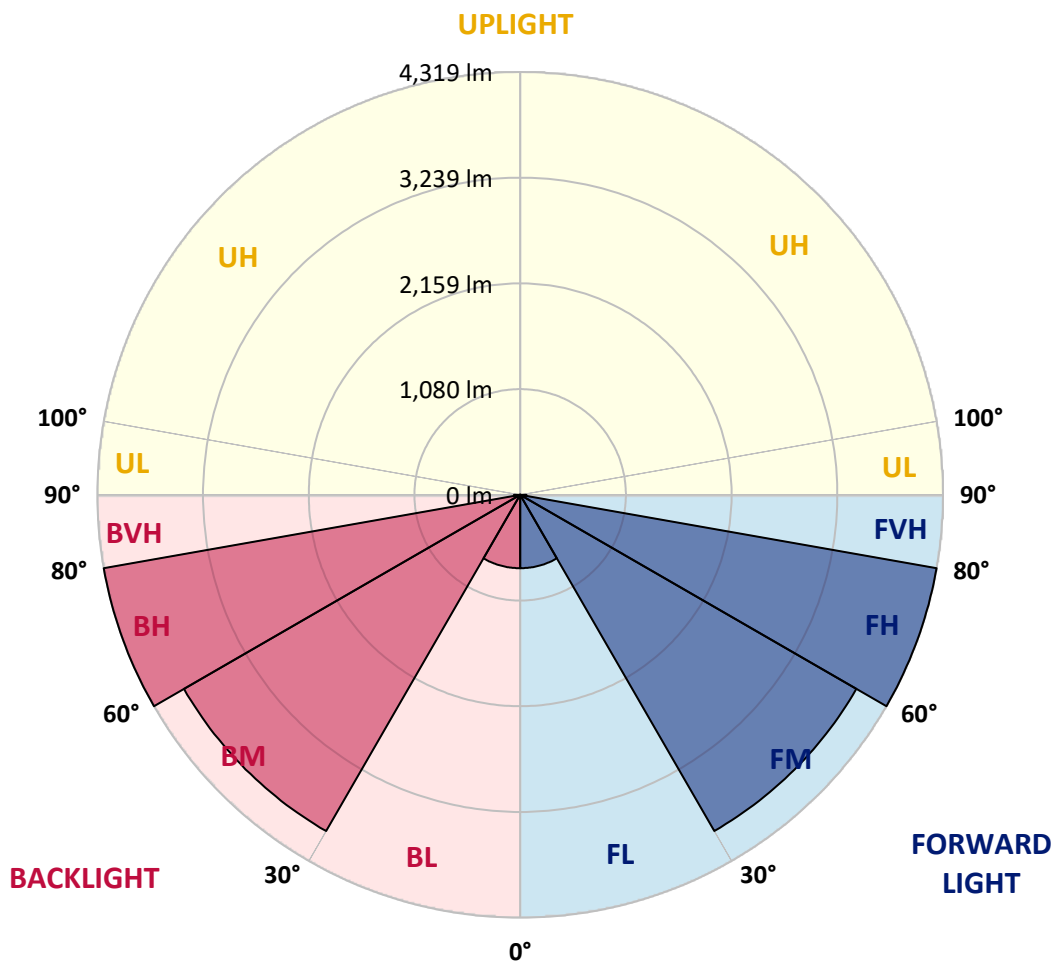
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.7	4.1			
FM	(30°-60°)	3965.3	21.8			
FH	(60°-80°)	4319.0	23.7			G2/5000
FVH	(80°-90°)	63.5	0.3			G1/100
BL	(0°-30°)	749.7	4.1	B2/1000		
BM	(30°-60°)	3965.3	21.8	B3/5000		
BH	(60°-80°)	4319.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	63.5	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°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1806.5	1808.2	1808.2	1808.2	1807.3	1807.3	1805.7	1807.3	1806.5	1803.9	1804.9
5°	1791.4	1793.0	1793.0	1792.3	1794.8	1793.9	1791.4	1793.0	1792.3	1790.6	1791.4
7.5°	1769.8	1772.1	1772.1	1771.4	1773.9	1773.1	1771.4	1772.1	1772.1	1769.8	1769.8
10°	1745.3	1747.1	1747.1	1746.2	1750.4	1750.4	1749.5	1752.1	1753.0	1750.4	1748.7
12.5°	1722.8	1725.4	1725.4	1728.7	1732.8	1734.5	1738.7	1742.1	1745.3	1744.6	1741.3
15°	1709.5	1711.1	1714.4	1718.6	1725.4	1731.2	1738.0	1745.3	1752.1	1753.9	1748.7
17.5°	1701.1	1703.5	1708.5	1714.4	1723.7	1733.6	1743.7	1753.9	1763.0	1766.2	1760.5
20°	1698.5	1700.2	1705.3	1715.3	1727.8	1742.9	1757.2	1768.9	1781.3	1785.7	1781.3
22.5°	1703.5	1706.9	1712.8	1724.4	1741.3	1760.5	1777.1	1793.0	1808.9	1816.6	1810.7
25°	1726.2	1729.4	1737.1	1752.1	1770.5	1790.6	1809.8	1828.2	1842.5	1850.0	1845.7
27.5°	1768.0	1772.1	1781.3	1796.4	1816.6	1838.3	1859.2	1874.3	1886.0	1888.4	1883.4
30°	1830.7	1840.0	1850.9	1867.5	1891.0	1909.3	1930.3	1943.8	1957.9	1957.9	1953.8
32.5°	1928.7	1937.9	1949.5	1965.4	1983.8	2003.9	2022.4	2034.1	2049.2	2050.0	2040.0
35°	2075.1	2079.2	2089.3	2099.2	2116.0	2133.7	2149.6	2157.1	2169.6	2170.5	2161.2
37.5°	2268.4	2269.2	2275.9	2279.2	2294.4	2313.6	2328.5	2333.6	2345.4	2343.7	2334.4
40°	2493.4	2497.6	2500.2	2505.2	2521.1	2539.5	2555.4	2557.8	2570.4	2568.0	2556.1
42.5°	2753.7	2755.3	2769.6	2777.1	2792.1	2801.4	2821.4	2823.9	2839.1	2832.3	2818.9
45°	3045.7	3060.7	3074.1	3089.2	3105.1	3116.0	3131.9	3128.4	3138.6	3128.4	3121.0
47.5°	3352.7	3363.7	3393.7	3417.2	3443.2	3452.4	3475.0	3464.9	3475.0	3460.7	3458.1
50°	3690.7	3710.0	3736.1	3762.7	3790.4	3805.4	3834.8	3822.2	3835.6	3822.2	3814.7
52.5°	4023.8	4028.8	4085.8	4125.0	4163.6	4181.2	4198.7	4192.7	4193.6	4192.7	4185.4
55°	4340.2	4351.7	4408.7	4462.2	4529.2	4578.5	4608.7	4605.3	4597.7	4590.2	4577.8
57.5°	4696.5	4708.2	4773.6	4839.6	4915.7	4986.0	5047.0	5109.9	5134.2	5140.8	5113.2
60°	5178.5	5177.7	5264.6	5344.9	5453.8	5558.4	5692.2	5828.7	5985.0	6057.9	5961.6
62.5°	5668.8	5688.8	5814.4	5956.7	6180.9	6399.3	6646.1	6888.7	7136.5	7338.1	7123.9
65°	5610.3	5687.2	5873.7	6195.9	6610.1	7102.1	7634.2	8197.4	8706.2	9055.9	8663.4
67.5°	4862.2	4971.8	5161.8	5553.3	6071.3	6780.8	7674.4	8788.1	10082.4	10708.3	9932.7
70°	3524.3	3648.0	3847.3	4229.6	4742.5	5417.0	6387.6	7724.6	9438.2	10069.1	9214.9
72.5°	1753.9	1820.8	1943.8	2187.3	2575.4	3122.7	4002.8	5288.1	6804.2	7383.3	6602.6
75°	595.8	626.7	647.6	727.1	850.2	1065.1	1502.8	2311.9	3526.7	4228.0	3476.6
77.5°	344.0	344.7	359.0	373.2	394.0	417.5	476.1	625.0	1081.0	1535.5	1118.7
80°	222.6	221.7	233.5	244.2	258.5	270.3	273.7	289.6	333.9	395.8	353.9
82.5°	115.4	129.6	155.6	169.9	196.5	201.7	194.9	189.2	200.0	207.5	212.4
85°	63.6	55.2	82.9	107.1	118.8	120.6	120.6	113.7	117.9	115.4	125.6
87.5°	29.3	26.8	32.6	52.7	56.1	47.7	50.2	44.3	31.8	30.9	35.2
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°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1804.9	1805.7	1805.7	1808.2	1808.9	1810.7	1812.3	1813.1
5°	1790.6	1793.0	1791.4	1793.9	1793.9	1795.6	1795.6	1796.4
7.5°	1769.8	1772.1	1772.1	1772.1	1771.4	1773.9	1773.9	1773.9
10°	1747.9	1749.5	1748.7	1747.1	1745.3	1747.9	1747.1	1746.2
12.5°	1741.3	1737.1	1733.6	1732.0	1728.7	1729.4	1727.0	1727.0
15°	1745.3	1738.0	1732.0	1729.4	1726.2	1724.4	1722.8	1723.7
17.5°	1756.2	1747.1	1739.6	1735.3	1731.2	1728.7	1725.4	1726.2
20°	1775.5	1764.6	1753.9	1745.3	1738.0	1733.6	1731.2	1730.3
22.5°	1803.9	1788.0	1772.1	1759.6	1749.5	1743.7	1741.3	1739.6
25°	1836.7	1819.1	1800.7	1786.4	1776.4	1768.9	1763.8	1763.8
27.5°	1877.5	1863.4	1846.6	1829.8	1820.8	1813.1	1809.8	1808.2
30°	1946.2	1932.9	1919.5	1903.6	1891.8	1884.4	1878.4	1873.4
32.5°	2034.1	2023.3	2012.4	2000.6	1989.7	1979.7	1970.5	1966.3
35°	2157.9	2149.6	2142.0	2128.7	2124.4	2118.7	2113.5	2109.4
37.5°	2328.5	2325.3	2325.3	2311.0	2307.7	2305.2	2300.2	2301.0
40°	2552.9	2556.1	2552.1	2547.0	2544.4	2537.8	2537.8	2543.6
42.5°	2818.2	2820.6	2829.8	2821.4	2830.6	2822.2	2817.3	2821.4
45°	3126.0	3135.3	3153.6	3145.2	3151.2	3136.9	3119.4	3120.2
47.5°	3471.6	3479.9	3487.5	3481.7	3482.4	3459.1	3435.6	3429.6
50°	3830.6	3833.8	3838.1	3829.7	3831.4	3805.4	3778.6	3779.4
52.5°	4185.4	4201.3	4217.9	4195.4	4190.4	4160.9	4123.4	4108.3
55°	4591.1	4613.6	4594.4	4555.1	4515.8	4476.4	4427.0	4418.8
57.5°	5091.5	5053.0	4992.7	4918.3	4863.9	4808.6	4758.4	4737.5
60°	5787.6	5642.9	5534.1	5423.6	5354.2	5286.4	5220.3	5210.3
62.5°	6771.7	6521.4	6304.8	6076.2	5889.6	5744.1	5627.8	5595.2
65°	8004.9	7413.4	6900.5	6421.9	6006.0	5692.2	5494.8	5407.7
67.5°	8535.4	7367.4	6488.0	5808.5	5264.6	4884.9	4671.5	4565.1
70°	7500.4	6109.7	5153.3	4473.1	3977.8	3572.7	3379.6	3265.7
72.5°	5160.0	3886.5	3073.3	2508.4	2112.8	1773.9	1639.9	1630.0
75°	2316.9	1534.6	1057.7	814.9	686.1	596.6	568.9	548.1
77.5°	648.4	479.4	427.6	399.9	373.2	342.3	330.4	333.0
80°	315.5	297.9	286.2	268.7	244.2	218.4	206.7	211.7
82.5°	209.1	206.7	214.2	201.7	166.5	141.5	118.8	108.8
85°	127.2	128.8	131.3	132.2	112.1	78.6	53.5	60.2
87.5°	50.2	57.8	62.7	65.2	61.1	37.6	30.2	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)