

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: P268406

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268406
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 14178.5 lumens
Efficiency: N/A
Efficacy: 109.9 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

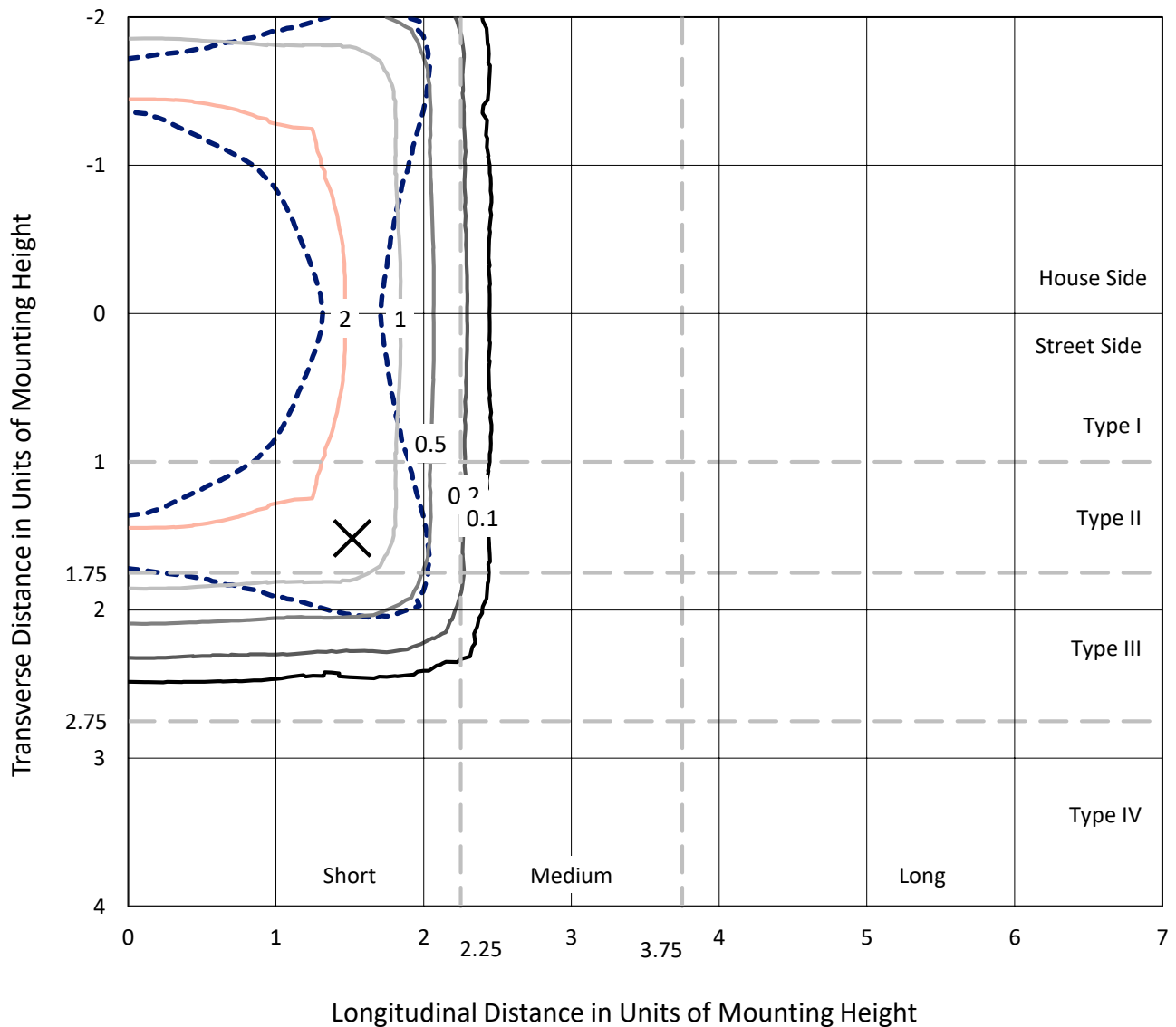


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

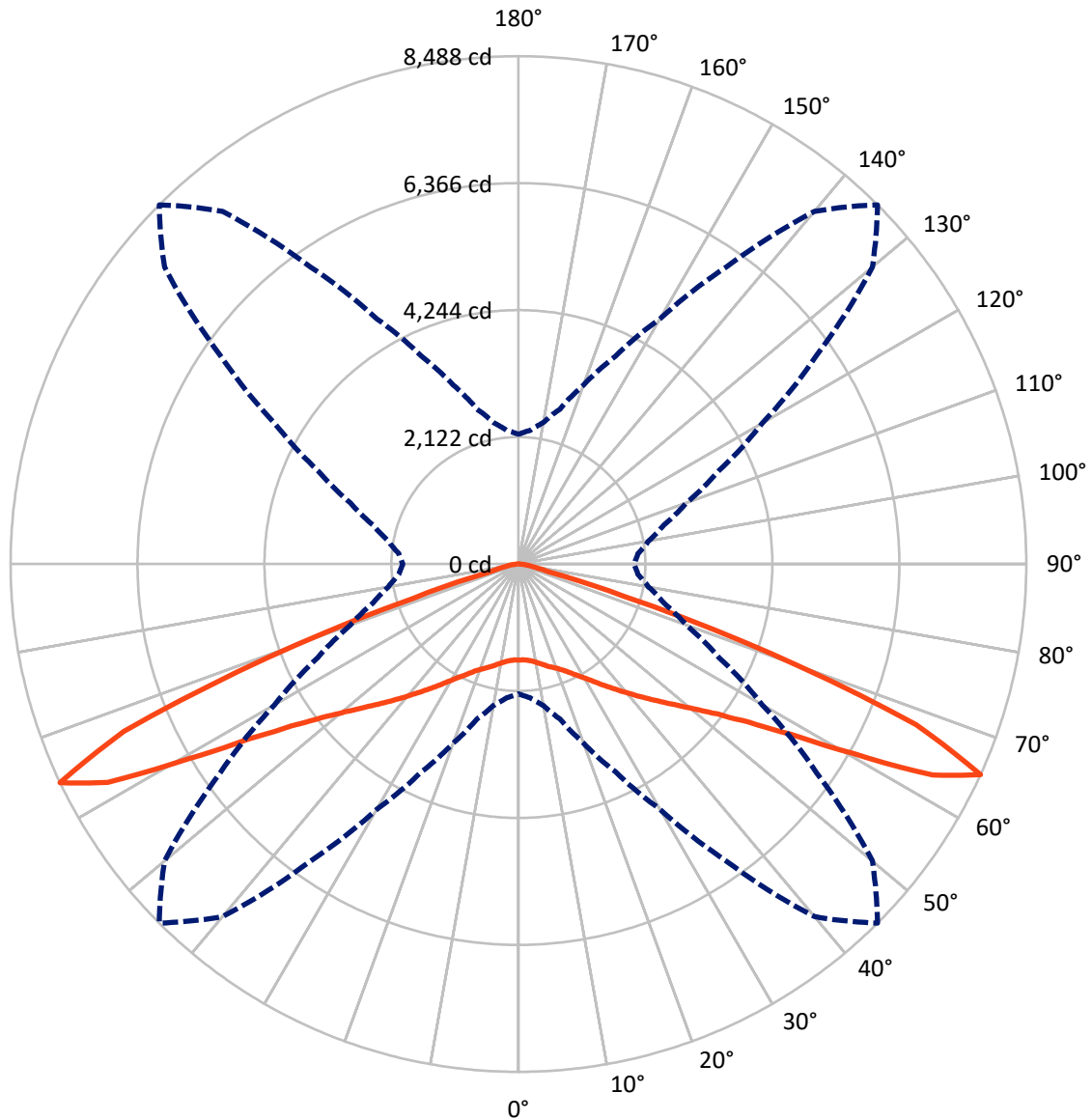


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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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	7089.2	0.0	7089.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7089.2	0.0	7089.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	14178.5	0.0	14178.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	1.1
10°-20°	501.5	3.5
20°-30°	937.7	6.6
30°-40°	1585.9	11.2
40°-50°	2593.2	18.3
50°-60°	4123.5	29.1
60°-70°	3727.4	26.3
70°-80°	471.7	3.3
80°-90°	81.2	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°	14178.5	100.0
0°-180°	14178.5	100.0



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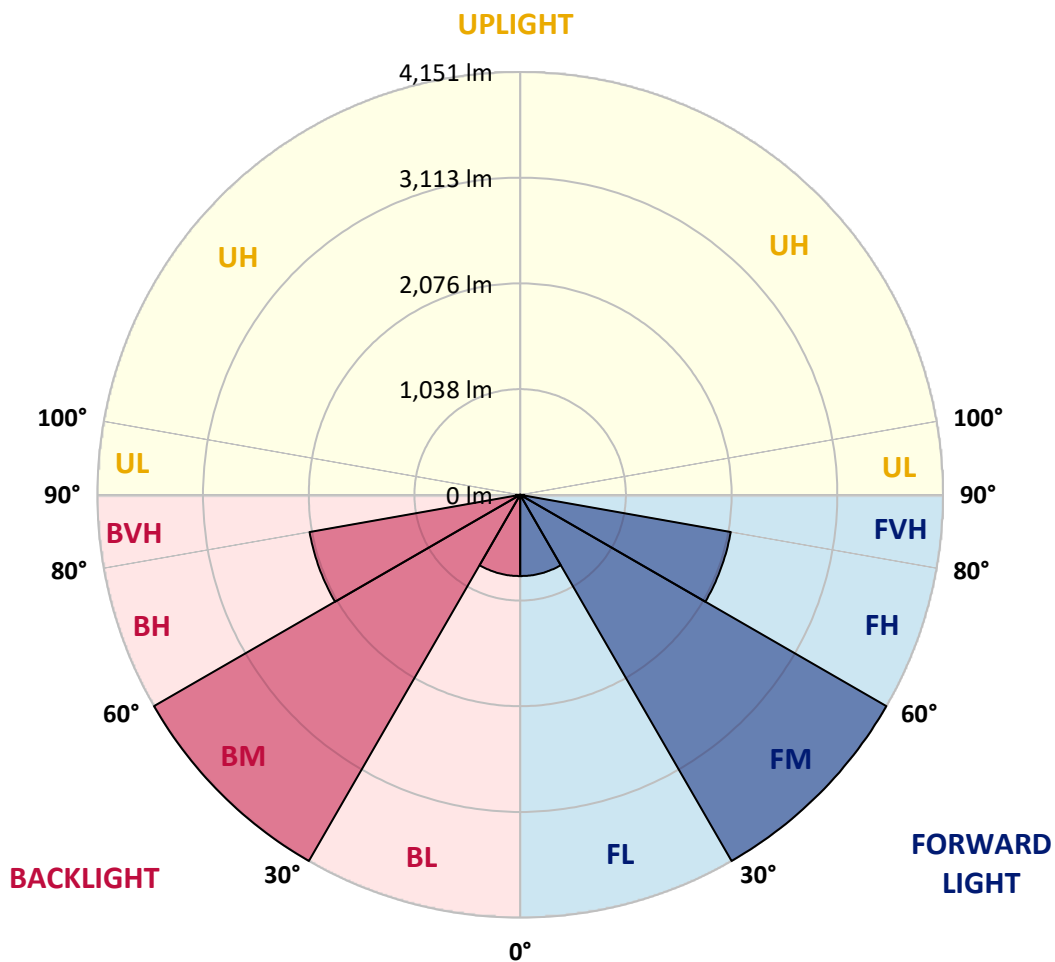
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.8	5.6			
FM	(30°-60°)	4151.3	29.3			
FH	(60°-80°)	2099.6	14.8			G2/5000
FVH	(80°-90°)	40.6	0.3			G1/100
BL	(0°-30°)	797.8	5.6	B2/1000		
BM	(30°-60°)	4151.3	29.3	B3/5000		
BH	(60°-80°)	2099.6	14.8	B3/2500		G2/5000
BVH	(80°-90°)	40.6	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°	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4
2.5°	1605.6	1607.0	1608.2	1607.0	1608.2	1606.3	1604.9	1607.0	1604.9	1602.9	1604.4
5°	1619.6	1620.3	1620.3	1618.2	1620.3	1618.9	1616.9	1619.6	1617.6	1615.6	1616.9
7.5°	1642.8	1645.4	1643.4	1641.6	1642.8	1641.6	1640.1	1640.8	1640.1	1638.1	1638.9
10°	1674.0	1676.0	1674.7	1674.0	1675.3	1674.7	1673.4	1672.7	1673.4	1671.3	1671.3
12.5°	1711.9	1711.2	1710.6	1711.2	1713.2	1713.2	1712.6	1713.2	1714.5	1715.3	1713.8
15°	1749.1	1750.3	1750.3	1750.3	1754.4	1757.8	1759.7	1760.9	1763.6	1764.4	1761.7
17.5°	1795.5	1795.5	1794.9	1795.5	1799.6	1804.9	1806.9	1809.5	1812.2	1814.1	1810.9
20°	1847.4	1848.6	1848.6	1850.0	1855.3	1861.3	1861.3	1862.6	1861.3	1862.6	1860.6
22.5°	1910.4	1914.4	1914.4	1915.0	1920.3	1927.8	1925.6	1927.8	1924.3	1927.0	1924.3
25°	1992.8	1998.8	1997.4	1997.4	2001.5	2006.1	2006.8	2010.6	2010.0	2013.3	2011.3
27.5°	2085.8	2095.0	2097.7	2097.1	2099.7	2104.3	2105.6	2110.3	2107.7	2110.3	2109.0
30°	2197.3	2201.2	2206.5	2208.6	2211.8	2216.6	2216.6	2217.1	2214.0	2217.8	2219.8
32.5°	2312.9	2320.1	2325.4	2337.4	2343.4	2346.7	2346.1	2347.4	2344.0	2349.3	2353.3
35°	2465.6	2470.9	2479.5	2488.8	2496.7	2496.1	2494.1	2494.8	2494.8	2499.4	2503.3
37.5°	2649.6	2650.8	2662.0	2675.4	2679.4	2675.4	2663.5	2660.8	2654.9	2660.8	2667.3
40°	2844.0	2848.6	2871.3	2879.8	2881.9	2874.5	2857.2	2847.4	2834.2	2841.3	2850.7
42.5°	3047.9	3057.2	3077.9	3093.0	3099.7	3095.1	3071.1	3055.9	3038.5	3042.6	3051.9
45°	3273.7	3284.9	3314.1	3328.8	3341.4	3334.1	3310.9	3287.6	3260.4	3262.4	3276.9
47.5°	3525.9	3537.3	3575.2	3599.7	3606.3	3605.1	3579.1	3547.2	3510.0	3508.8	3521.4
50°	3809.0	3820.2	3867.4	3905.2	3924.4	3922.4	3891.8	3846.7	3801.5	3802.3	3818.2
52.5°	4085.1	4099.1	4148.3	4213.3	4251.0	4278.4	4259.8	4217.3	4162.1	4163.5	4178.0
55°	4344.2	4367.3	4423.9	4512.0	4582.6	4658.9	4680.8	4679.5	4646.3	4655.6	4670.2
57.5°	4469.5	4504.1	4591.1	4730.6	4874.1	5029.4	5160.9	5259.1	5301.0	5364.0	5349.4
60°	4231.8	4287.0	4415.2	4620.3	4903.8	5228.0	5575.2	5914.5	6204.1	6422.5	6296.9
62.5°	3464.9	3536.6	3692.0	3955.0	4384.0	4902.6	5567.2	6369.4	7243.3	7770.5	7393.9
65°	2168.1	2242.3	2400.5	2682.0	3184.0	3828.8	4730.6	6060.0	7692.8	8487.6	7721.4
67.5°	845.3	885.8	971.4	1151.4	1528.6	2102.4	3007.3	4516.0	6469.1	7165.6	6348.9
70°	423.6	427.7	443.6	476.8	557.8	724.5	1102.3	2093.7	3709.9	4480.8	3576.5
72.5°	306.1	306.9	314.8	329.4	355.3	392.4	464.2	640.9	1206.6	1844.0	1130.8
75°	234.4	237.1	241.7	249.6	263.7	282.2	308.1	369.3	457.5	530.5	446.2
77.5°	180.6	185.9	189.3	196.5	205.3	217.7	225.1	248.3	288.9	304.2	299.4
80°	137.4	142.1	149.4	155.3	161.3	167.4	164.7	175.3	196.5	209.1	202.6
82.5°	87.7	93.0	114.3	119.6	122.2	126.1	121.5	122.2	131.5	139.4	131.5
85°	56.5	59.7	72.4	79.1	79.7	82.4	80.4	75.6	75.6	69.1	77.8
87.5°	26.0	26.6	32.6	38.4	39.9	35.8	35.3	33.9	27.2	26.0	27.8
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°	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4
2.5°	1603.7	1604.9	1605.6	1607.6	1608.2	1608.2	1609.0	1610.3
5°	1616.3	1618.2	1618.9	1621.6	1622.2	1621.6	1622.9	1623.5
7.5°	1638.9	1642.1	1643.4	1646.1	1644.2	1646.9	1647.4	1647.4
10°	1672.0	1675.3	1676.0	1678.7	1677.3	1678.7	1678.7	1677.3
12.5°	1715.9	1716.5	1714.5	1716.5	1713.8	1715.3	1713.2	1711.9
15°	1764.4	1762.4	1757.8	1757.8	1753.8	1754.4	1753.8	1753.0
17.5°	1811.5	1807.5	1804.2	1802.9	1799.6	1798.9	1796.9	1796.9
20°	1863.3	1861.3	1859.3	1856.6	1853.4	1850.0	1849.3	1850.7
22.5°	1925.6	1925.1	1925.1	1923.7	1919.0	1915.7	1913.7	1913.7
25°	2009.4	2003.4	2003.4	2002.7	2000.7	1998.8	1994.7	1996.8
27.5°	2103.7	2100.3	2103.0	2102.4	2100.3	2100.3	2097.7	2097.7
30°	2219.8	2218.5	2222.5	2219.3	2212.5	2211.8	2209.2	2205.9
32.5°	2354.0	2352.8	2358.6	2354.6	2344.0	2338.1	2332.8	2330.2
35°	2503.3	2504.0	2511.4	2508.6	2496.7	2492.7	2483.5	2482.1
37.5°	2666.8	2677.4	2690.1	2692.7	2682.7	2680.1	2670.1	2664.7
40°	2858.6	2872.6	2891.9	2896.6	2885.8	2883.9	2869.9	2862.7
42.5°	3063.2	3087.0	3111.0	3115.1	3104.4	3093.8	3080.5	3075.2
45°	3291.6	3320.1	3351.3	3359.3	3343.4	3330.7	3313.5	3313.5
47.5°	3547.9	3583.8	3619.0	3640.9	3626.3	3613.1	3592.4	3579.1
50°	3850.8	3899.8	3945.6	3968.3	3945.0	3919.8	3883.9	3872.0
52.5°	4230.6	4283.7	4323.5	4311.5	4275.8	4240.4	4201.4	4185.5
55°	4715.4	4733.2	4733.2	4688.1	4616.4	4557.2	4495.5	4474.8
57.5°	5321.6	5252.5	5146.3	5011.5	4842.1	4694.7	4595.1	4547.9
60°	6034.1	5702.0	5326.9	4958.4	4655.6	4405.8	4257.7	4190.1
62.5°	6508.8	5640.3	4888.5	4297.0	3861.4	3560.5	3356.0	3276.4
65°	6083.2	4704.1	3697.3	2989.5	2514.6	2208.6	2006.1	1931.6
67.5°	4455.7	2947.7	1968.8	1411.1	1033.9	824.7	741.7	707.1
70°	2000.0	1037.9	636.1	496.8	428.3	393.1	377.8	372.5
72.5°	602.9	436.2	367.9	332.1	304.7	287.5	274.9	273.5
75°	364.0	302.8	269.0	247.8	230.4	216.5	209.8	207.9
77.5°	254.3	222.4	206.5	191.2	178.0	167.4	161.3	156.8
80°	178.7	163.3	156.0	147.4	138.8	128.8	120.3	116.2
82.5°	119.6	116.2	116.2	110.9	103.6	94.3	77.1	73.0
85°	77.1	76.4	77.8	75.6	70.3	60.5	49.8	47.2
87.5°	35.8	36.6	40.6	39.9	38.4	31.9	25.2	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)