

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: P299835

Luminaire Tested: **GAA-AF-04-LED-U-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-04-LED-U-5WQ-8030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

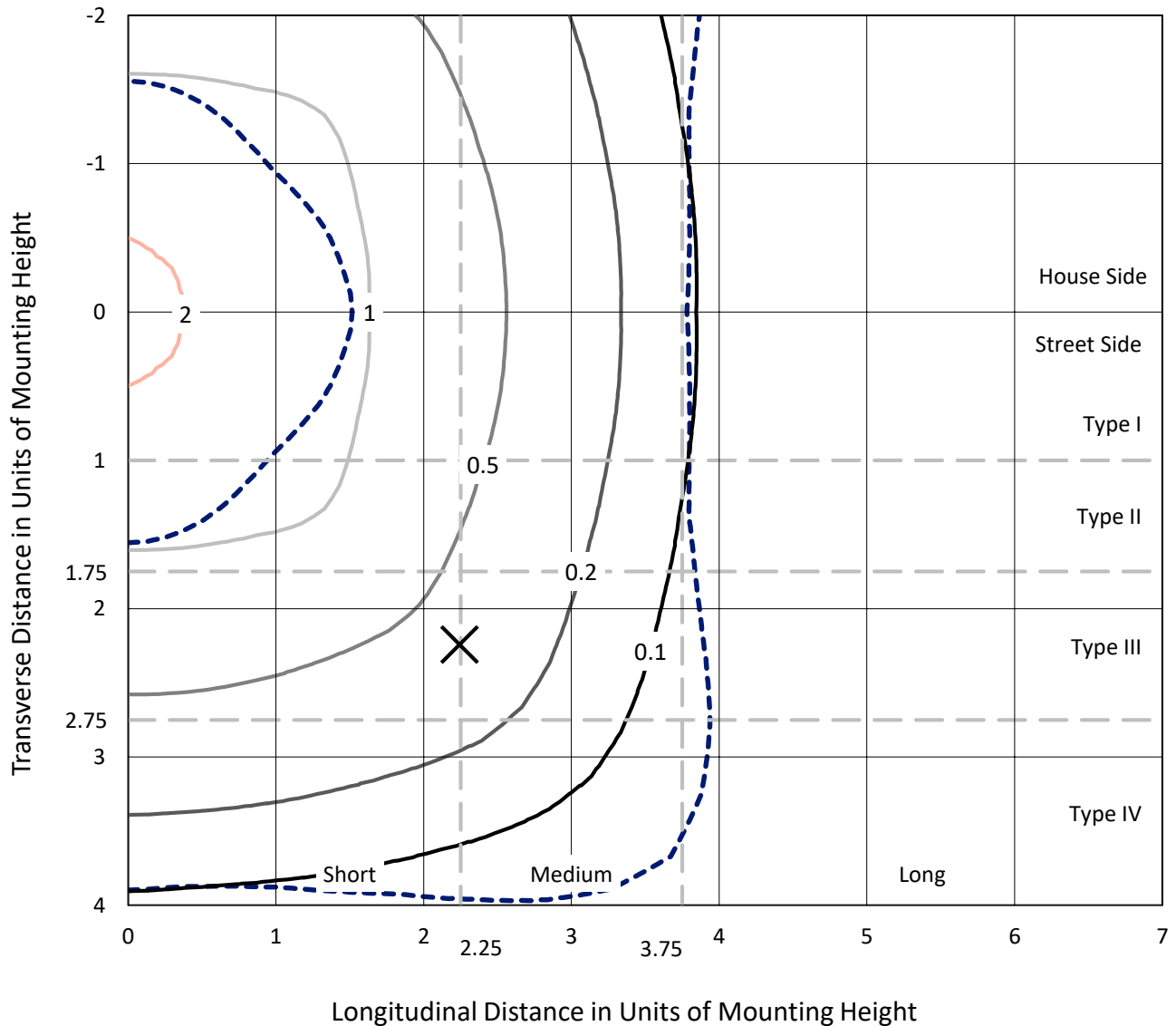
Lumens per Lamp: N/A  
Luminaire Lumens: 20567.4 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (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

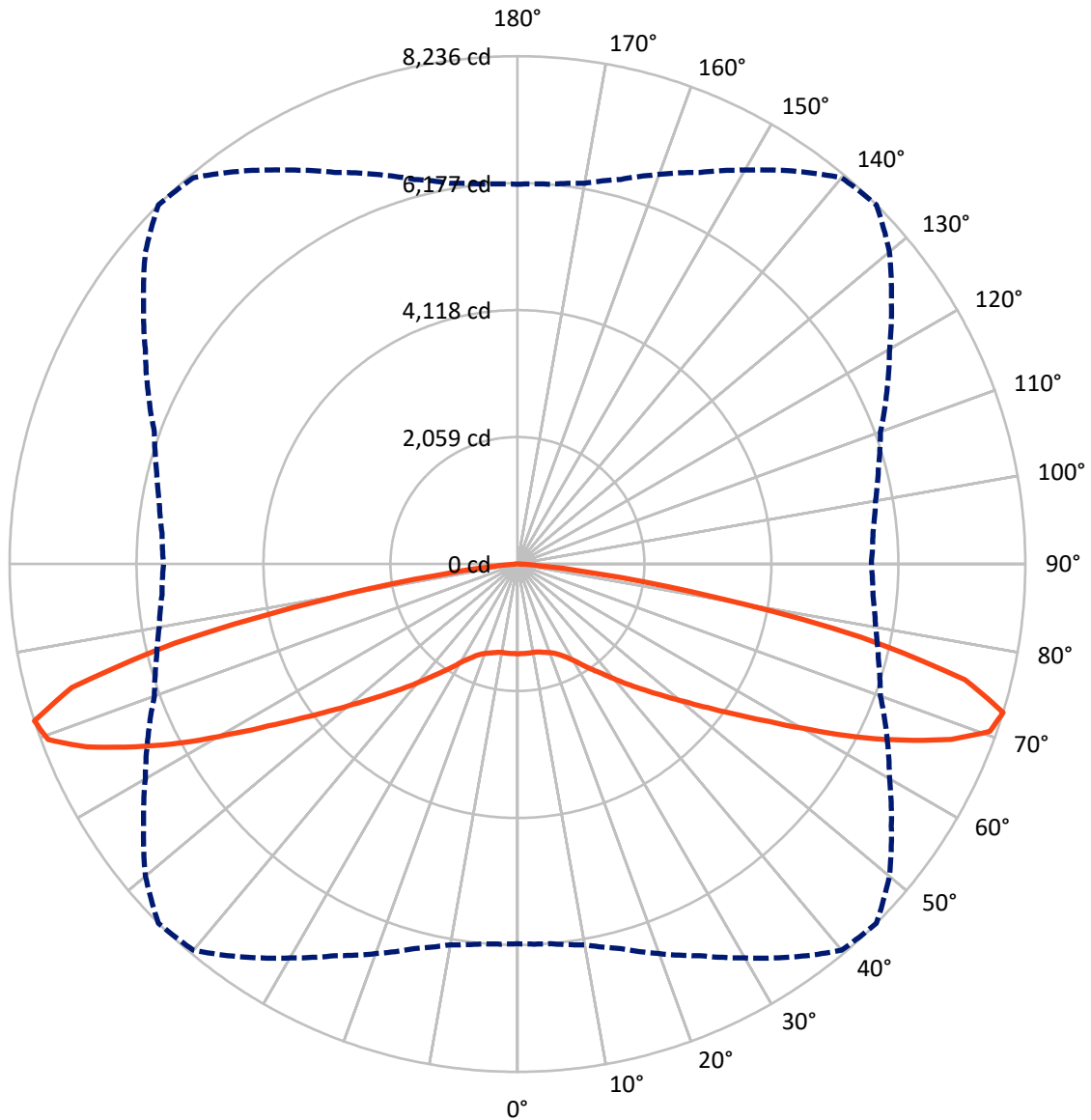
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10283.7	0.0	10283.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10283.7	0.0	10283.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20567.4	0.0	20567.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	0.7
10°-20°	422.4	2.1
20°-30°	771.9	3.8
30°-40°	1330.9	6.5
40°-50°	2275.1	11.1
50°-60°	3687.7	17.9
60°-70°	6117.7	29.7
70°-80°	5388.2	26.2
80°-90°	434.4	2.1
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°	20567.4	100.0
0°-180°	20567.4	100.0



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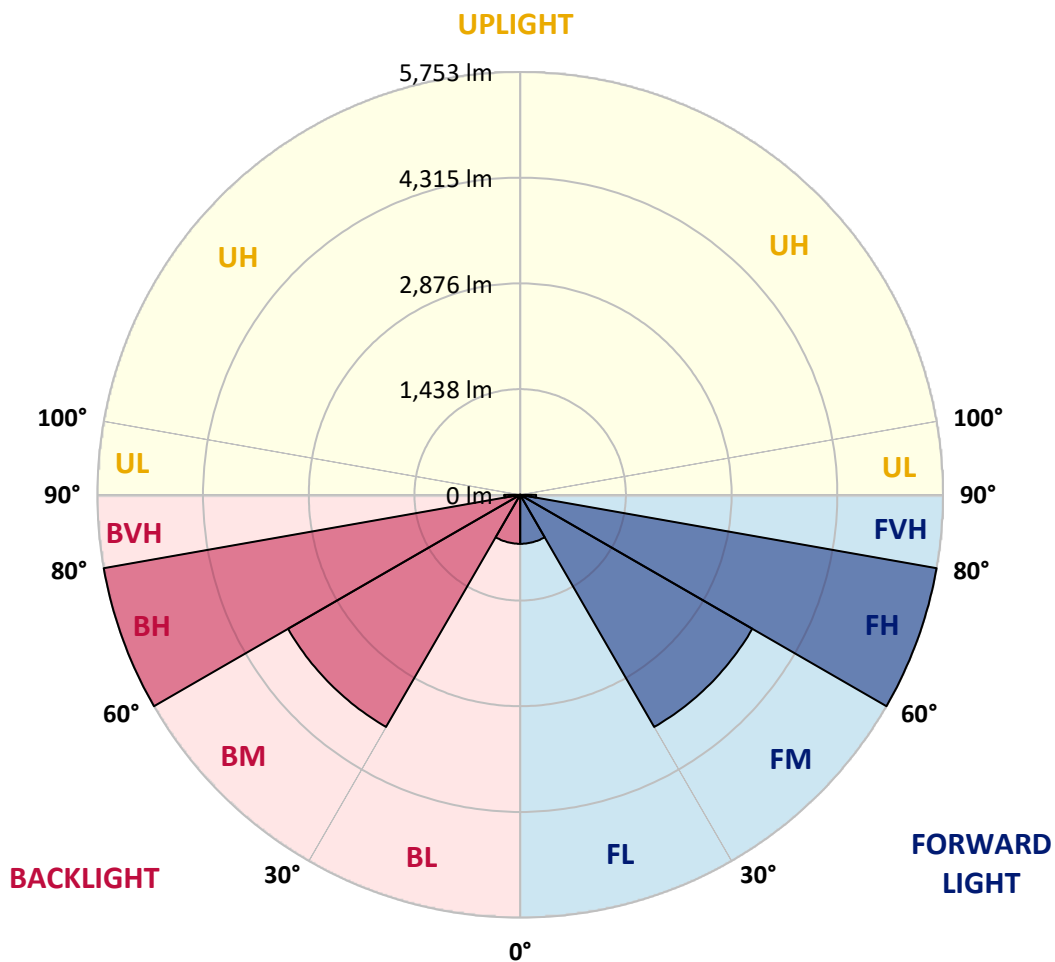
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.7	3.2			
FM	(30°-60°)	3646.8	17.7			
FH	(60°-80°)	5753.0	28.0			G3/7500
FVH	(80°-90°)	217.2	1.1			G2/225
BL	(0°-30°)	666.7	3.2	B2/1000		
BM	(30°-60°)	3646.8	17.7	B3/5000		
BH	(60°-80°)	5753.0	28.0	B5		G3/7500
BVH	(80°-90°)	217.2	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5
2.5°	1456.5	1457.4	1458.4	1457.4	1457.4	1456.5	1455.5	1456.5	1455.5	1453.7	1454.6
5°	1461.2	1463.1	1463.1	1461.2	1462.1	1461.2	1459.3	1460.3	1458.4	1455.5	1455.5
7.5°	1466.9	1467.8	1467.8	1465.9	1466.9	1465.0	1463.1	1462.1	1460.3	1456.5	1453.7
10°	1475.4	1476.3	1475.4	1473.5	1473.5	1470.6	1465.9	1464.0	1460.3	1454.6	1451.8
12.5°	1484.8	1485.7	1484.8	1482.9	1482.0	1477.2	1473.5	1470.6	1467.8	1463.1	1458.4
15°	1498.0	1499.9	1498.0	1494.2	1491.4	1487.6	1485.7	1486.7	1487.6	1483.8	1479.1
17.5°	1522.5	1523.5	1520.6	1512.1	1508.4	1504.6	1504.6	1506.5	1509.3	1507.4	1502.7
20°	1567.8	1565.0	1558.4	1548.0	1543.3	1536.7	1535.7	1536.7	1536.7	1535.7	1532.0
22.5°	1624.4	1622.5	1614.0	1600.8	1594.2	1590.4	1584.8	1580.1	1579.1	1576.3	1572.5
25°	1692.3	1691.4	1681.0	1669.7	1665.0	1660.2	1655.5	1648.9	1643.3	1636.7	1632.9
27.5°	1779.1	1775.3	1760.2	1754.6	1748.0	1745.1	1738.5	1731.0	1726.3	1717.8	1713.1
30°	1874.4	1874.4	1862.1	1860.2	1860.2	1853.6	1846.1	1832.9	1824.4	1815.9	1813.1
32.5°	1969.7	1970.6	1958.3	1962.1	1964.9	1969.7	1971.5	1966.8	1961.2	1960.2	1954.6
35°	2107.4	2103.6	2091.3	2094.2	2093.2	2092.3	2092.3	2102.7	2104.6	2106.4	2095.1
37.5°	2278.1	2278.1	2265.9	2265.9	2260.2	2254.5	2247.0	2253.6	2264.0	2266.8	2259.3
40°	2473.4	2480.0	2464.9	2464.0	2465.8	2447.9	2439.4	2449.8	2456.4	2467.7	2459.2
42.5°	2703.6	2698.8	2683.8	2681.9	2671.5	2665.8	2658.3	2666.8	2677.1	2684.7	2687.5
45°	2924.3	2920.5	2903.5	2903.5	2893.2	2888.5	2892.2	2906.4	2911.1	2921.5	2931.8
47.5°	3142.2	3137.5	3126.2	3130.9	3131.8	3140.3	3152.6	3165.8	3179.0	3193.1	3197.9
50°	3364.8	3365.8	3353.5	3364.8	3379.0	3402.6	3435.6	3457.3	3484.6	3502.6	3508.2
52.5°	3567.6	3571.4	3584.6	3611.0	3639.3	3685.6	3742.2	3795.0	3840.3	3870.5	3868.6
55°	3811.0	3816.7	3848.8	3894.0	3940.3	4010.1	4094.0	4187.4	4262.9	4306.3	4278.9
57.5°	4122.3	4134.6	4170.4	4231.7	4300.6	4391.2	4506.3	4646.8	4763.8	4822.3	4777.9
60°	4549.6	4557.2	4600.6	4668.5	4751.5	4863.8	5017.5	5206.2	5371.3	5448.6	5397.7
62.5°	5112.8	5127.0	5161.9	5230.7	5315.6	5443.0	5630.7	5866.5	6072.2	6179.7	6064.6
65°	5785.4	5830.7	5859.9	5929.7	6009.0	6143.9	6340.1	6592.9	6813.6	6884.4	6751.4
67.5°	6451.4	6491.0	6541.9	6622.1	6702.3	6854.2	7036.2	7281.5	7523.9	7588.1	7381.5
70°	6742.9	6765.5	6844.7	6954.2	7107.9	7287.2	7497.5	7773.0	8073.0	8125.8	7863.5
72.5°	6159.0	6181.6	6270.3	6456.1	6724.0	7008.9	7375.8	7780.5	8176.7	8236.1	7874.9
75°	4658.1	4621.3	4752.5	4998.7	5360.0	5757.1	6270.3	6850.4	7423.0	7497.5	7066.4
77.5°	2407.4	2402.6	2501.7	2807.3	3238.4	3690.3	4255.3	4910.9	5471.3	5697.7	5346.8
80°	678.2	685.8	733.0	884.8	1136.7	1463.1	1904.6	2518.7	2977.1	3211.1	3014.9
82.5°	266.0	286.8	304.7	333.0	366.0	414.1	552.8	822.6	1103.7	1318.8	1080.1
85°	95.3	101.9	144.3	170.7	173.6	183.0	208.5	243.4	293.4	350.0	287.7
87.5°	35.8	39.6	46.2	76.4	75.5	68.9	84.0	87.7	66.0	60.4	74.5
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°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5
2.5°	1452.7	1453.7	1453.7	1454.6	1455.5	1455.5	1457.4	1457.4
5°	1453.7	1453.7	1451.8	1452.7	1451.8	1451.8	1452.7	1452.7
7.5°	1451.8	1450.8	1448.9	1448.0	1446.1	1446.1	1446.1	1446.1
10°	1448.9	1448.0	1446.1	1445.2	1444.2	1444.2	1444.2	1444.2
12.5°	1456.5	1453.7	1451.8	1450.8	1450.8	1450.8	1450.8	1450.8
15°	1476.3	1469.7	1465.0	1465.0	1465.9	1467.8	1467.8	1469.7
17.5°	1500.8	1493.3	1488.6	1484.8	1486.7	1489.5	1491.4	1493.3
20°	1530.1	1526.3	1519.7	1515.9	1515.9	1519.7	1521.6	1522.5
22.5°	1570.6	1567.8	1565.0	1560.3	1560.3	1562.1	1565.9	1565.9
25°	1631.0	1629.1	1627.2	1623.5	1622.5	1622.5	1624.4	1626.3
27.5°	1706.5	1707.4	1705.5	1704.6	1701.8	1700.8	1703.6	1702.7
30°	1807.4	1812.1	1816.8	1813.1	1808.3	1805.5	1802.7	1798.9
32.5°	1944.2	1938.5	1934.8	1928.2	1919.7	1912.1	1906.5	1899.9
35°	2073.4	2064.0	2060.2	2065.9	2064.9	2060.2	2053.6	2048.0
37.5°	2231.9	2230.0	2231.9	2242.3	2240.4	2245.1	2231.9	2231.0
40°	2431.9	2433.8	2447.0	2459.2	2465.8	2472.4	2464.9	2457.4
42.5°	2663.9	2663.0	2667.7	2684.7	2696.0	2703.6	2687.5	2685.6
45°	2909.2	2902.6	2906.4	2920.5	2931.8	2940.3	2922.4	2922.4
47.5°	3179.0	3167.7	3155.4	3171.5	3178.1	3183.7	3169.6	3164.8
50°	3479.9	3456.3	3429.9	3436.5	3436.5	3434.6	3416.7	3415.8
52.5°	3825.2	3781.8	3733.7	3715.7	3705.4	3694.1	3662.9	3647.8
55°	4222.3	4157.2	4081.8	4035.5	4011.0	3979.9	3928.0	3913.8
57.5°	4686.4	4584.5	4454.4	4397.8	4343.1	4292.1	4234.6	4218.5
60°	5236.4	5086.4	4913.8	4809.1	4749.6	4700.6	4641.1	4638.3
62.5°	5849.5	5612.8	5417.5	5323.2	5279.8	5236.4	5179.8	5187.3
65°	6473.1	6225.9	6042.9	5966.5	5926.0	5890.1	5833.5	5842.0
67.5°	7088.1	6860.8	6659.9	6581.6	6536.3	6491.0	6440.1	6448.6
70°	7529.6	7247.5	7021.1	6847.6	6739.1	6616.5	6537.2	6517.4
72.5°	7403.2	6968.3	6608.9	6264.6	6062.7	5898.6	5787.3	5739.2
75°	6407.0	5812.8	5350.5	4927.9	4690.2	4496.8	4356.3	4268.5
77.5°	4758.1	4090.2	3544.1	3057.3	2672.4	2414.0	2231.9	2114.0
80°	2604.5	1981.0	1448.0	1017.8	748.1	621.6	549.0	514.1
82.5°	811.3	523.5	385.8	333.0	309.4	296.2	274.5	239.6
85°	258.5	226.4	210.4	200.9	191.5	167.0	115.1	104.7
87.5°	100.0	102.8	101.9	96.2	98.1	70.7	56.6	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)