

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: P299901

Luminaire Tested: **GAA-AF-05-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299901  
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-05-LED-U-5WQ-8030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20587.5 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 210  
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

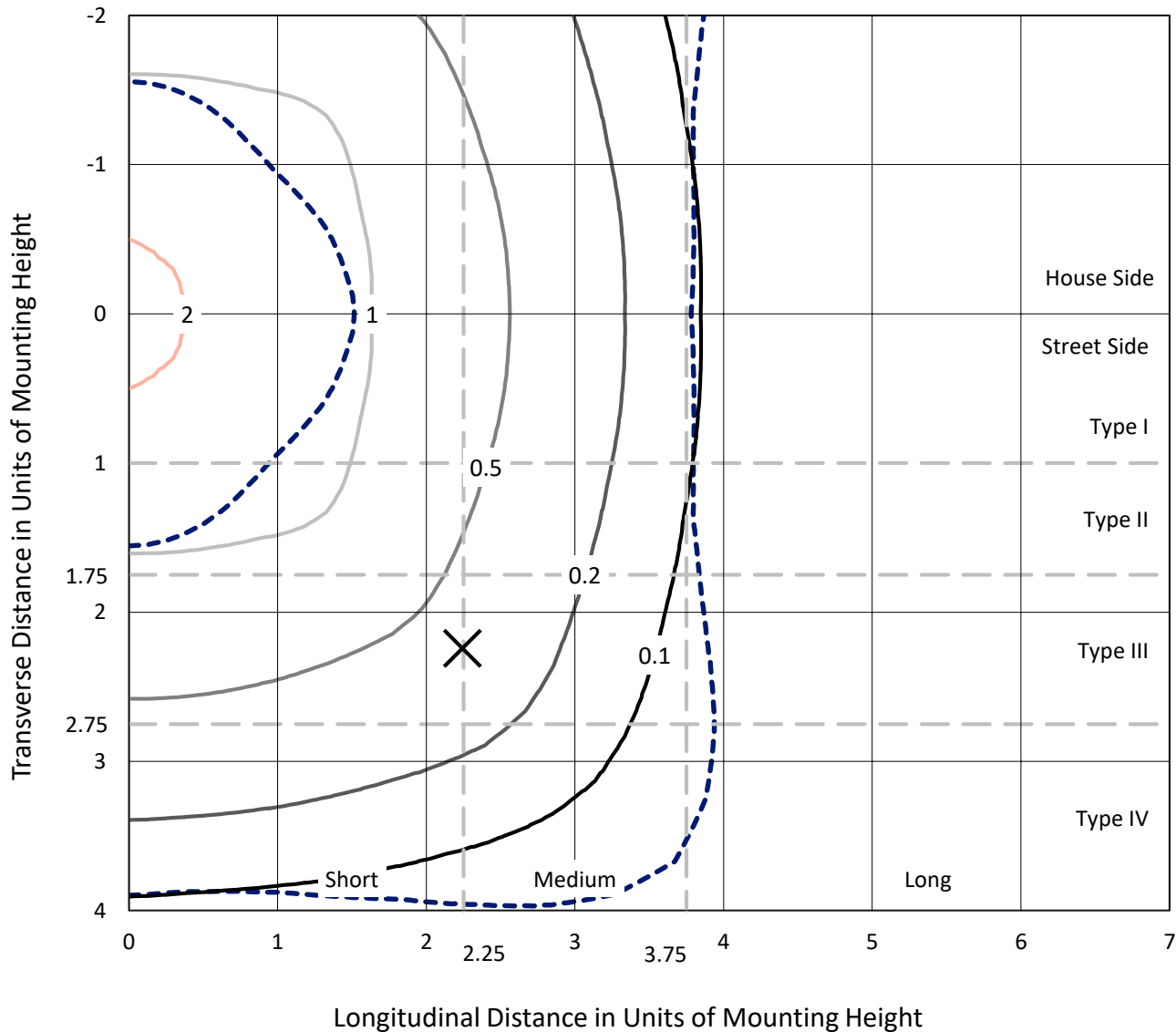


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

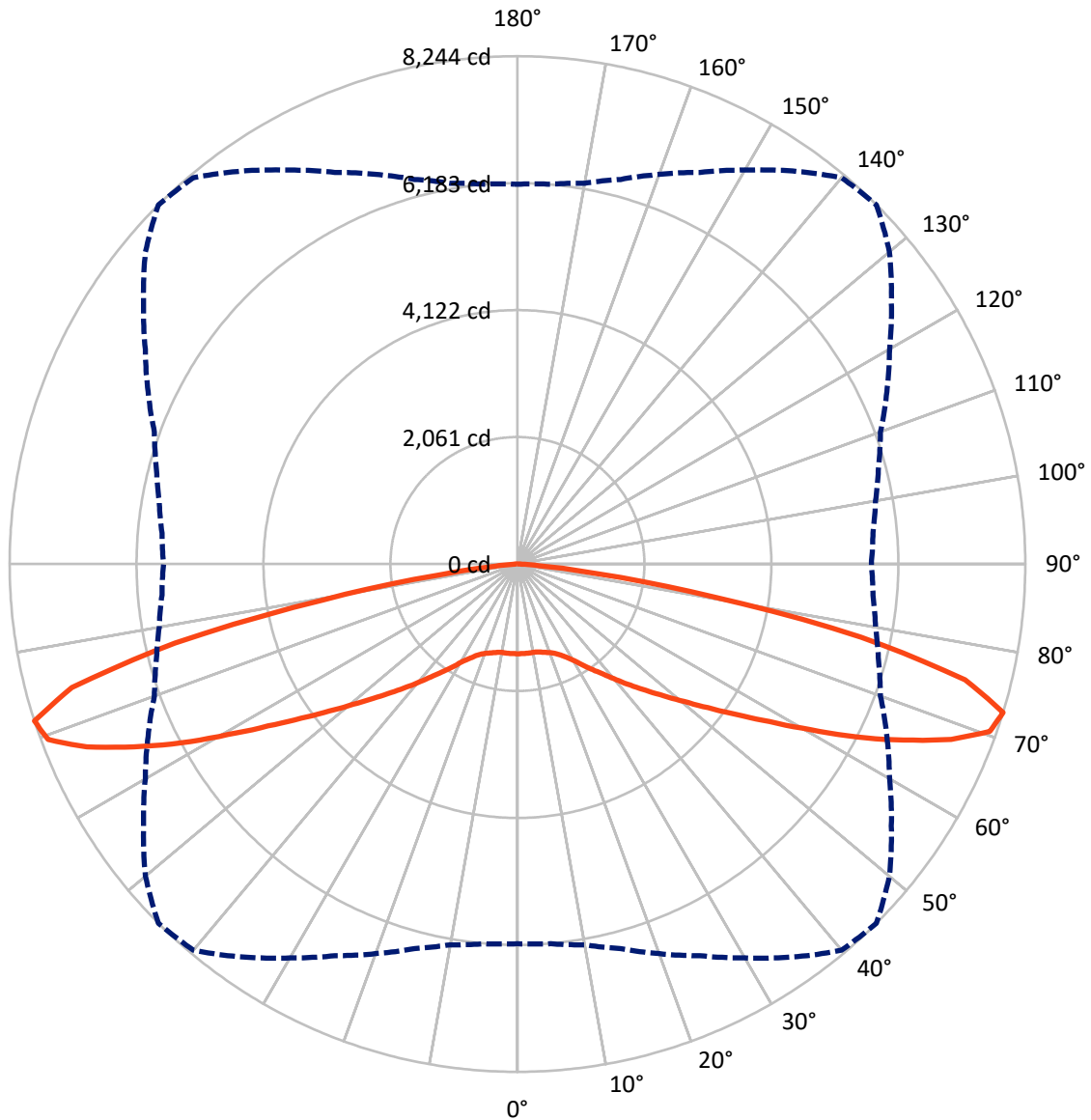


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Semi-Cutoff

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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	10293.8	0.0	10293.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10293.8	0.0	10293.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20587.5	0.0	20587.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.2	0.7
10°-20°	422.8	2.1
20°-30°	772.6	3.8
30°-40°	1332.2	6.5
40°-50°	2277.3	11.1
50°-60°	3691.3	17.9
60°-70°	6123.7	29.7
70°-80°	5393.5	26.2
80°-90°	434.9	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°	20587.5	100.0
0°-180°	20587.5	100.0



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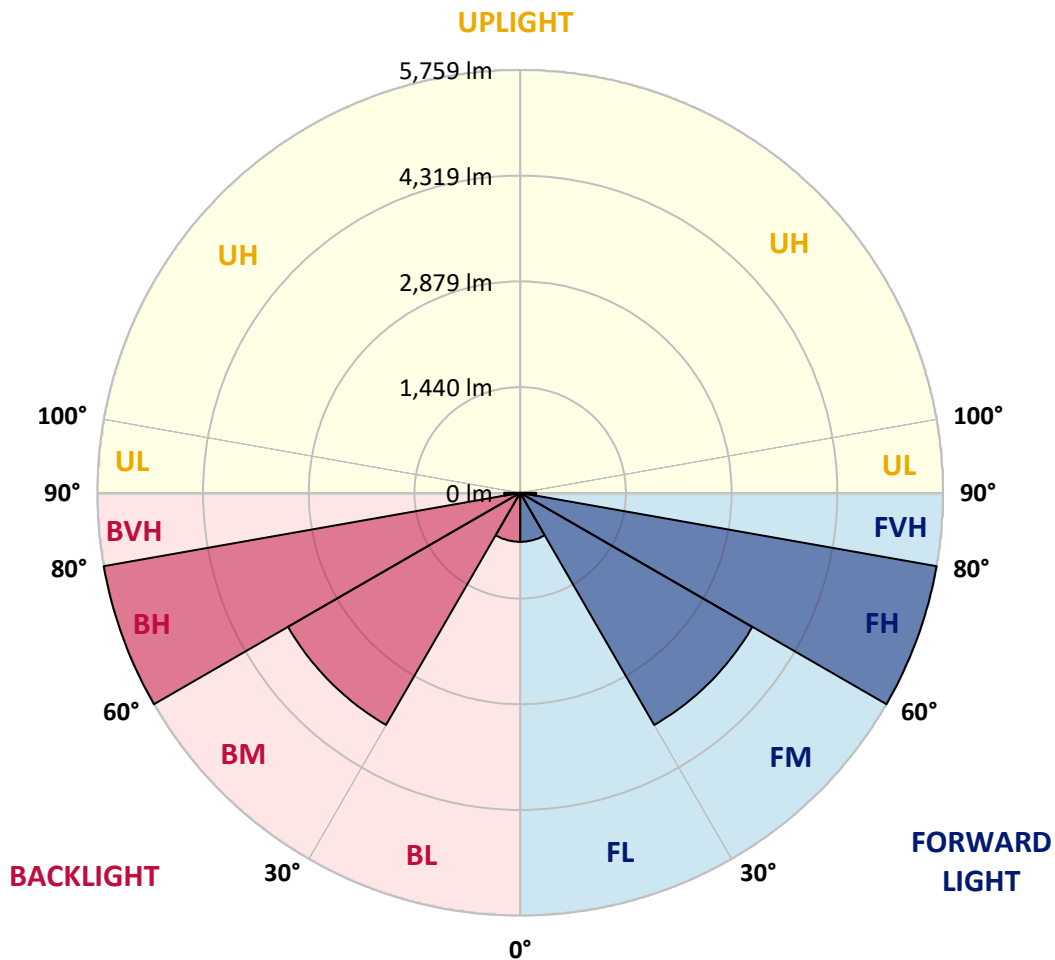
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.3	3.2			
FM (30°-60°)	3650.4	17.7			
FH (60°-80°)	5758.6	28.0			G3/7500
FVH (80°-90°)	217.4	1.1			G2/225
BL (0°-30°)	667.3	3.2	B2/1000		
BM (30°-60°)	3650.4	17.7	B3/5000		
BH (60°-80°)	5758.6	28.0	B5		G3/7500
BVH (80°-90°)	217.4	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°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1457.9	1458.9	1459.8	1458.9	1458.9	1457.9	1457.0	1457.9	1457.0	1455.1	1456.0
5°	1462.6	1464.5	1464.5	1462.6	1463.6	1462.6	1460.7	1461.7	1459.8	1457.0	1457.0
7.5°	1468.3	1469.2	1469.2	1467.4	1468.3	1466.4	1464.5	1463.6	1461.7	1457.9	1455.1
10°	1476.8	1477.7	1476.8	1474.9	1474.9	1472.1	1467.4	1465.5	1461.7	1456.0	1453.2
12.5°	1486.2	1487.2	1486.2	1484.4	1483.4	1478.7	1474.9	1472.1	1469.2	1464.5	1459.8
15°	1499.5	1501.4	1499.5	1495.7	1492.9	1489.1	1487.2	1488.1	1489.1	1485.3	1480.6
17.5°	1524.0	1525.0	1522.1	1513.6	1509.9	1506.1	1506.1	1508.0	1510.8	1508.9	1504.2
20°	1569.3	1566.5	1559.9	1549.5	1544.8	1538.2	1537.2	1538.2	1538.2	1537.2	1533.5
22.5°	1626.0	1624.1	1615.6	1602.4	1595.8	1592.0	1586.3	1581.6	1580.7	1577.8	1574.1
25°	1694.0	1693.0	1682.6	1671.3	1666.6	1661.9	1657.2	1650.5	1644.9	1638.3	1634.5
27.5°	1780.8	1777.1	1762.0	1756.3	1749.7	1746.9	1740.2	1732.7	1728.0	1719.5	1714.8
30°	1876.2	1876.2	1863.9	1862.1	1862.1	1855.4	1847.9	1834.7	1826.2	1817.7	1814.8
32.5°	1971.6	1972.5	1960.3	1964.0	1966.9	1971.6	1973.5	1968.8	1963.1	1962.1	1956.5
35°	2109.4	2105.7	2093.4	2096.2	2095.3	2094.3	2094.3	2104.7	2106.6	2108.5	2097.2
37.5°	2280.4	2280.4	2268.1	2268.1	2262.4	2256.7	2249.2	2255.8	2266.2	2269.0	2261.5
40°	2475.8	2482.4	2467.3	2466.4	2468.3	2450.3	2441.8	2452.2	2458.8	2470.1	2461.7
42.5°	2706.2	2701.5	2686.4	2684.5	2674.1	2668.4	2660.9	2669.4	2679.8	2687.3	2690.2
45°	2927.2	2923.4	2906.4	2906.4	2896.0	2891.3	2895.1	2909.2	2913.9	2924.3	2934.7
47.5°	3145.3	3140.6	3129.2	3134.0	3134.9	3143.4	3155.7	3168.9	3182.1	3196.3	3201.0
50°	3368.1	3369.1	3356.8	3368.1	3382.3	3405.9	3438.9	3460.7	3488.0	3506.0	3511.7
52.5°	3571.1	3574.9	3588.1	3614.6	3642.9	3689.2	3745.8	3798.7	3844.0	3874.2	3872.4
55°	3814.8	3820.4	3852.5	3897.9	3944.1	4014.0	4098.0	4191.5	4267.1	4310.5	4283.1
57.5°	4126.4	4138.6	4174.5	4235.9	4304.8	4395.5	4510.7	4651.4	4768.4	4827.0	4782.6
60°	4554.1	4561.7	4605.1	4673.1	4756.2	4868.5	5022.4	5211.3	5376.5	5454.0	5403.0
62.5°	5117.8	5132.0	5166.9	5235.8	5320.8	5448.3	5636.2	5872.3	6078.1	6185.8	6070.6
65°	5791.1	5836.4	5865.7	5935.5	6014.9	6149.9	6346.3	6599.3	6820.3	6891.1	6758.0
67.5°	6457.7	6497.4	6548.4	6628.6	6708.9	6860.9	7043.1	7288.6	7531.3	7595.5	7388.7
70°	6749.5	6772.1	6851.5	6961.0	7114.9	7294.3	7504.9	7780.6	8080.9	8133.7	7871.2
72.5°	6165.0	6187.6	6276.4	6462.4	6730.6	7015.8	7383.1	7788.1	8184.7	8244.2	7882.6
75°	4662.7	4625.9	4757.1	5003.6	5365.2	5762.7	6276.4	6857.1	7430.3	7504.9	7073.4
77.5°	2409.7	2405.0	2504.1	2810.1	3241.6	3693.9	4259.5	4915.7	5476.6	5703.2	5352.0
80°	678.9	686.5	733.7	885.7	1137.8	1464.5	1906.4	2521.1	2980.0	3214.2	3017.8
82.5°	266.3	287.1	305.0	333.3	366.4	414.5	553.3	823.4	1104.8	1320.1	1081.2
85°	95.4	102.0	144.5	170.9	173.7	183.2	208.7	243.6	293.7	350.3	288.0
87.5°	35.9	39.7	46.3	76.5	75.5	68.9	84.0	87.8	66.1	60.4	74.6
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°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1454.1	1455.1	1455.1	1456.0	1457.0	1457.0	1458.9	1458.9
5°	1455.1	1455.1	1453.2	1454.1	1453.2	1453.2	1454.1	1454.1
7.5°	1453.2	1452.3	1450.4	1449.4	1447.5	1447.5	1447.5	1447.5
10°	1450.4	1449.4	1447.5	1446.6	1445.6	1445.6	1445.6	1445.6
12.5°	1457.9	1455.1	1453.2	1452.3	1452.3	1452.3	1452.3	1452.3
15°	1477.7	1471.1	1466.4	1466.4	1467.4	1469.2	1469.2	1471.1
17.5°	1502.3	1494.7	1490.0	1486.2	1488.1	1491.0	1492.9	1494.7
20°	1531.6	1527.8	1521.2	1517.4	1517.4	1521.2	1523.1	1524.0
22.5°	1572.2	1569.3	1566.5	1561.8	1561.8	1563.7	1567.4	1567.4
25°	1632.6	1630.7	1628.8	1625.0	1624.1	1624.1	1626.0	1627.9
27.5°	1708.1	1709.1	1707.2	1706.3	1703.4	1702.5	1705.3	1704.4
30°	1809.2	1813.9	1818.6	1814.8	1810.1	1807.3	1804.5	1800.7
32.5°	1946.1	1940.4	1936.6	1930.0	1921.5	1914.0	1908.3	1901.7
35°	2075.5	2066.0	2062.2	2067.9	2067.0	2062.2	2055.6	2050.0
37.5°	2234.1	2232.2	2234.1	2244.5	2242.6	2247.3	2234.1	2233.1
40°	2434.3	2436.2	2449.4	2461.7	2468.3	2474.9	2467.3	2459.8
42.5°	2666.6	2665.6	2670.3	2687.3	2698.7	2706.2	2690.2	2688.3
45°	2912.1	2905.4	2909.2	2923.4	2934.7	2943.2	2925.3	2925.3
47.5°	3182.1	3170.8	3158.5	3174.6	3181.2	3186.8	3172.7	3167.9
50°	3483.3	3459.7	3433.3	3439.9	3439.9	3438.0	3420.1	3419.1
52.5°	3828.9	3785.5	3737.3	3719.4	3709.0	3697.7	3666.5	3651.4
55°	4226.4	4161.3	4085.8	4039.5	4014.9	3983.8	3931.8	3917.7
57.5°	4691.0	4589.0	4458.7	4402.1	4347.3	4296.3	4238.7	4222.7
60°	5241.5	5091.4	4918.6	4813.8	4754.3	4705.2	4645.7	4642.9
62.5°	5855.3	5618.3	5422.8	5328.4	5284.9	5241.5	5184.9	5192.4
65°	6479.4	6232.0	6048.8	5972.4	5931.8	5895.9	5839.2	5847.7
67.5°	7095.1	6867.5	6666.4	6588.0	6542.7	6497.4	6446.4	6454.9
70°	7537.0	7254.6	7028.0	6854.3	6745.7	6622.9	6543.6	6523.8
72.5°	7410.4	6975.2	6615.4	6270.7	6068.7	5904.4	5793.0	5744.8
75°	6413.3	5818.4	5355.8	4932.7	4694.8	4501.2	4360.5	4272.7
77.5°	4762.8	4094.3	3547.5	3060.3	2675.1	2416.3	2234.1	2116.1
80°	2607.1	1982.9	1449.4	1018.8	748.8	622.3	549.6	514.6
82.5°	812.1	524.1	386.2	333.3	309.7	296.5	274.8	239.8
85°	258.7	226.6	210.6	201.1	191.7	167.1	115.2	104.8
87.5°	100.1	102.9	102.0	96.3	98.2	70.8	56.7	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)