

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: P190882

Luminaire Tested: **GAN-AF-04-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190882
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: GAN-AF-04-LED-U-5WQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20903 lumens
Efficiency: N/A
Efficacy: 122.2 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

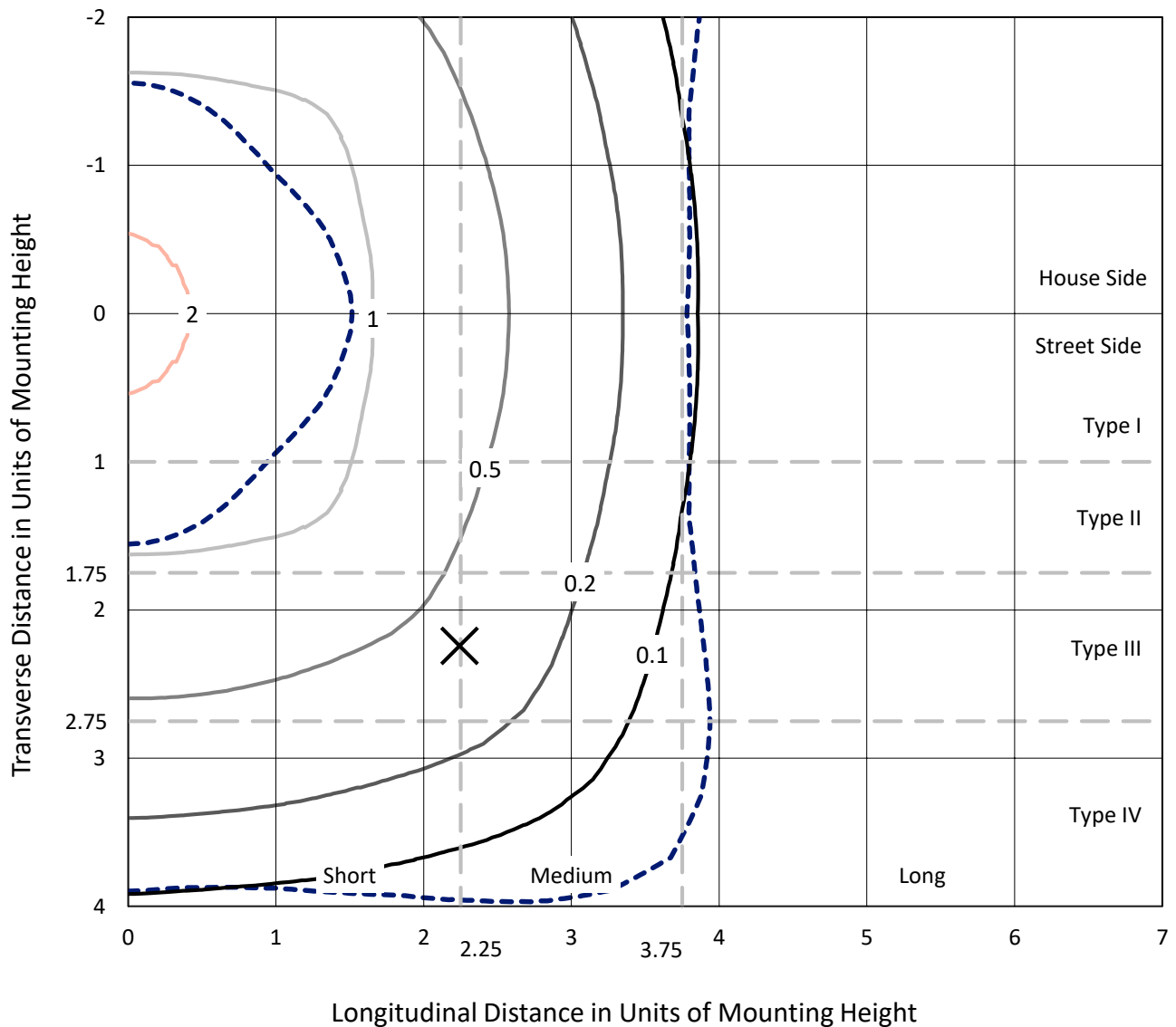
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

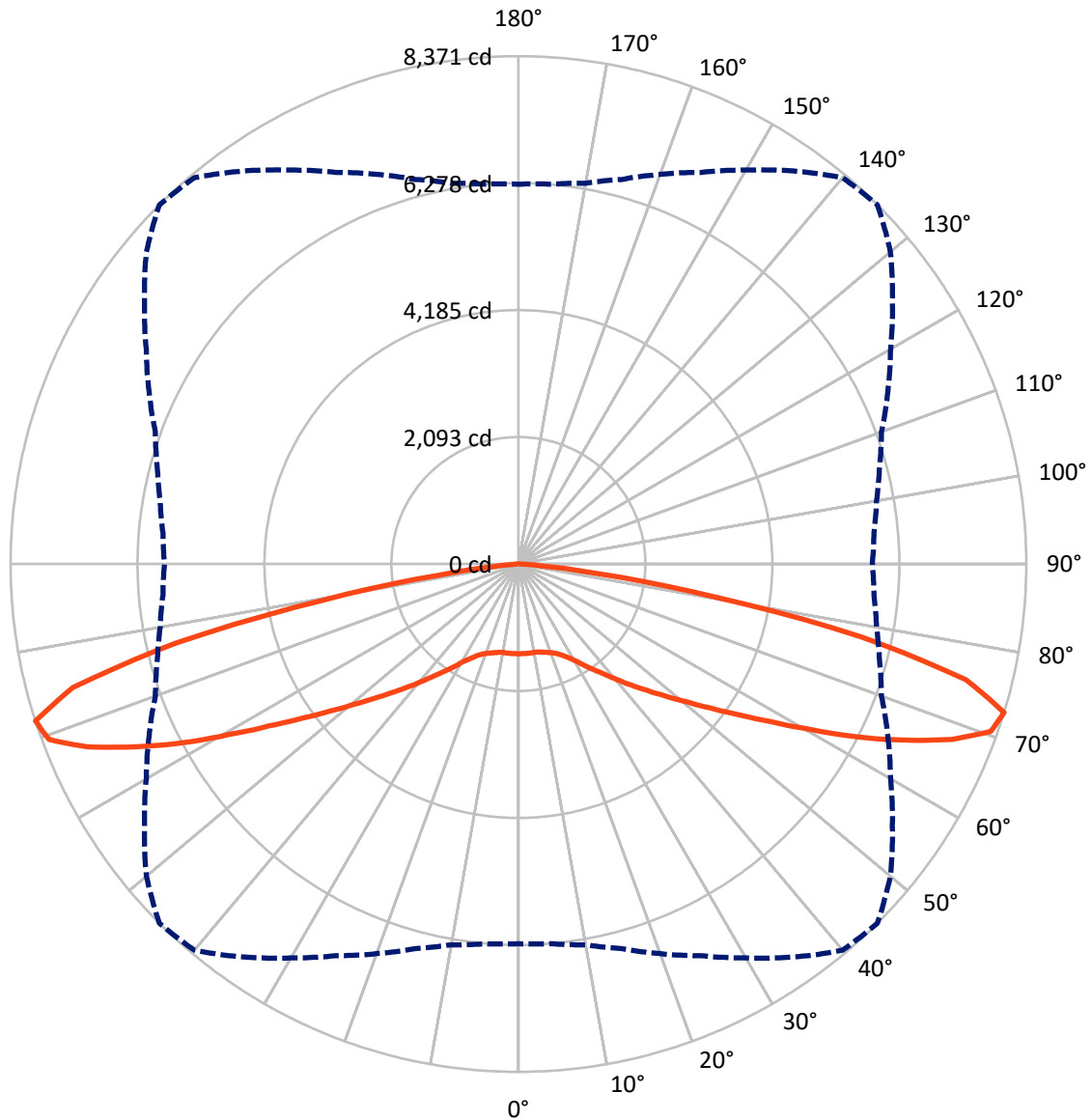
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
House Side	Lumens	10451.5	0.0	10451.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10451.5	0.0	10451.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20903.0	0.0	20903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	0.7
10°-20°	429.3	2.1
20°-30°	784.5	3.8
30°-40°	1352.6	6.5
40°-50°	2312.2	11.1
50°-60°	3747.8	17.9
60°-70°	6217.5	29.7
70°-80°	5476.2	26.2
80°-90°	441.5	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°	20903.0	100.0
0°-180°	20903.0	100.0



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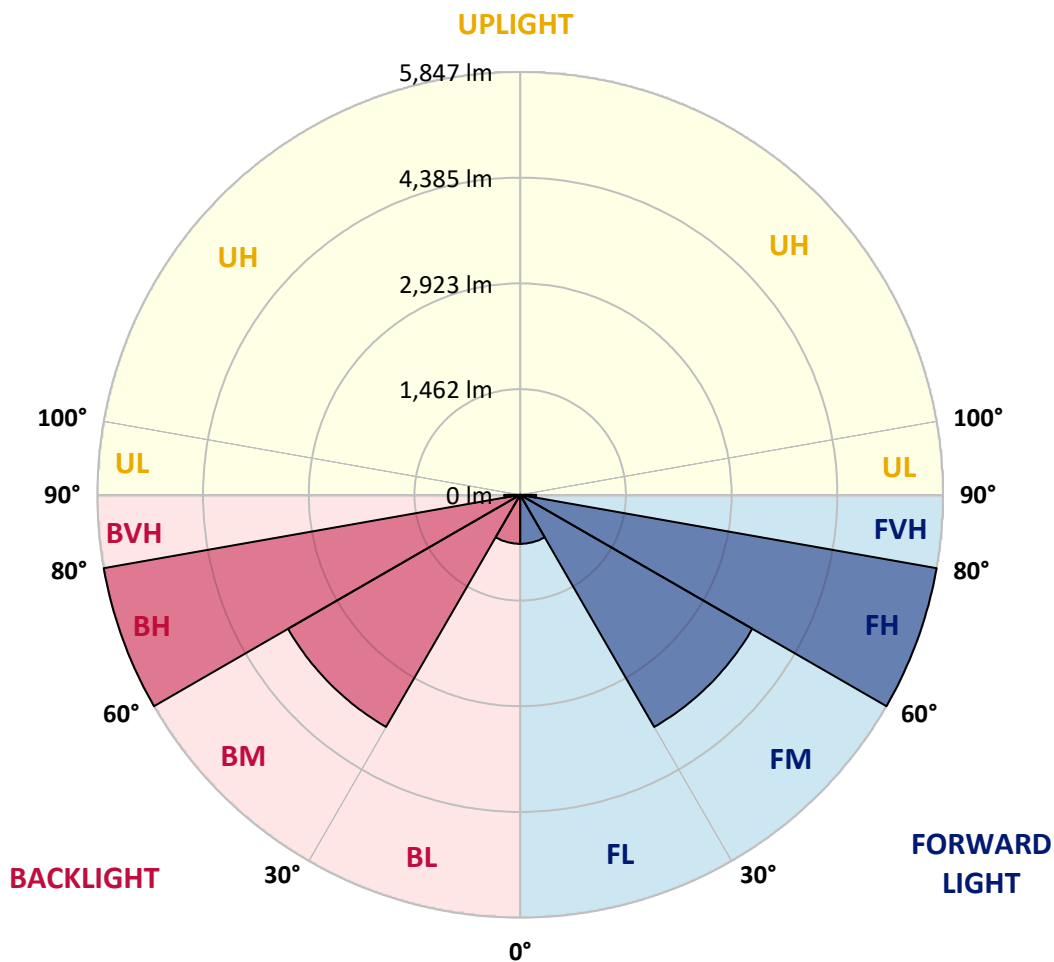
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.6	3.2			
FM	(30°-60°)	3706.3	17.7			
FH	(60°-80°)	5846.8	28.0			G3/7500
FVH	(80°-90°)	220.8	1.1			G2/225
BL	(0°-30°)	677.6	3.2	B2/1000		
BM	(30°-60°)	3706.3	17.7	B3/5000		
BH	(60°-80°)	5846.8	28.0	B5		G3/7500
BVH	(80°-90°)	220.8	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°	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1480.2	1481.2	1482.2	1481.2	1481.2	1480.2	1479.3	1480.2	1479.3	1477.3	1478.4
5°	1485.0	1487.0	1487.0	1485.0	1486.0	1485.0	1483.2	1484.1	1482.2	1479.3	1479.3
7.5°	1490.8	1491.8	1491.8	1489.8	1490.8	1488.9	1487.0	1486.0	1484.1	1480.2	1477.3
10°	1499.4	1500.4	1499.4	1497.5	1497.5	1494.6	1489.8	1487.9	1484.1	1478.4	1475.5
12.5°	1509.1	1510.0	1509.1	1507.1	1506.1	1501.4	1497.5	1494.6	1491.8	1487.0	1482.2
15°	1522.5	1524.4	1522.5	1518.6	1515.7	1511.9	1510.0	1510.9	1511.9	1508.0	1503.2
17.5°	1547.3	1548.3	1545.5	1536.8	1533.0	1529.1	1529.1	1531.1	1533.9	1532.1	1527.3
20°	1593.3	1590.5	1583.8	1573.3	1568.5	1561.7	1560.8	1561.7	1561.7	1560.8	1556.9
22.5°	1650.9	1649.0	1640.4	1626.9	1620.3	1616.4	1610.6	1605.8	1604.9	1602.0	1598.2
25°	1719.9	1719.0	1708.4	1697.0	1692.2	1687.4	1682.5	1675.8	1670.1	1663.4	1659.5
27.5°	1808.2	1804.3	1788.9	1783.2	1776.5	1773.6	1766.9	1759.3	1754.5	1745.9	1741.1
30°	1904.9	1904.9	1892.5	1890.6	1890.6	1883.9	1876.2	1862.8	1854.2	1845.5	1842.6
32.5°	2001.8	2002.7	1990.3	1994.1	1997.0	2001.8	2003.8	1998.9	1993.1	1992.2	1986.5
35°	2141.8	2138.0	2125.5	2128.4	2127.4	2126.4	2126.4	2136.9	2138.9	2140.8	2129.3
37.5°	2315.3	2315.3	2302.9	2302.9	2297.0	2291.3	2283.6	2290.4	2300.9	2303.8	2296.1
40°	2513.8	2520.4	2505.1	2504.2	2506.1	2487.8	2479.2	2489.8	2496.5	2508.0	2499.4
42.5°	2747.6	2742.8	2727.5	2725.7	2715.1	2709.3	2701.6	2710.3	2720.8	2728.5	2731.4
45°	2972.0	2968.2	2950.9	2950.9	2940.4	2935.6	2939.4	2953.8	2958.6	2969.1	2979.7
47.5°	3193.4	3188.6	3177.2	3182.0	3182.9	3191.6	3204.0	3217.5	3230.9	3245.2	3250.0
50°	3419.7	3420.6	3408.3	3419.7	3434.1	3458.1	3491.6	3513.7	3541.5	3559.7	3565.5
52.5°	3625.8	3629.7	3643.1	3669.9	3698.7	3745.7	3803.2	3856.9	3903.0	3933.7	3931.7
55°	3873.2	3878.9	3911.6	3957.6	4004.5	4075.5	4160.9	4255.8	4332.4	4376.5	4348.8
57.5°	4189.6	4202.1	4238.5	4300.8	4370.8	4462.8	4579.8	4722.7	4841.5	4901.0	4855.8
60°	4623.8	4631.5	4675.6	4744.7	4829.0	4943.1	5099.4	5291.1	5458.9	5537.5	5485.8
62.5°	5196.3	5210.6	5246.1	5316.1	5402.4	5531.8	5722.6	5962.3	6171.3	6280.5	6163.6
65°	5879.8	5925.9	5955.5	6026.5	6107.0	6244.1	6443.6	6700.4	6924.8	6996.7	6861.5
67.5°	6556.6	6596.9	6648.7	6730.2	6811.6	6966.0	7151.0	7400.3	7646.7	7711.9	7501.9
70°	6852.8	6875.9	6956.5	7067.7	7223.9	7406.1	7619.9	7899.8	8204.7	8258.4	7991.8
72.5°	6259.4	6282.5	6372.6	6561.4	6833.7	7123.2	7496.2	7907.5	8310.1	8370.5	8003.4
75°	4734.1	4696.8	4830.0	5080.2	5447.4	5851.1	6372.6	6962.2	7544.2	7619.9	7181.7
77.5°	2446.6	2441.9	2542.5	2853.1	3291.2	3750.4	4324.7	4991.1	5560.6	5790.6	5434.0
80°	689.4	696.9	744.9	899.3	1155.2	1487.0	1935.6	2559.7	3025.7	3263.4	3064.0
82.5°	270.4	291.4	309.6	338.4	371.9	420.8	561.8	836.0	1121.7	1340.3	1097.7
85°	96.9	103.5	146.7	173.5	176.4	186.0	211.9	247.3	298.2	355.7	292.4
87.5°	36.4	40.3	47.0	77.6	76.7	70.0	85.3	89.2	67.1	61.4	75.7
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°	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1476.4	1477.3	1477.3	1478.4	1479.3	1479.3	1481.2	1481.2
5°	1477.3	1477.3	1475.5	1476.4	1475.5	1475.5	1476.4	1476.4
7.5°	1475.5	1474.5	1472.5	1471.6	1469.7	1469.7	1469.7	1469.7
10°	1472.5	1471.6	1469.7	1468.8	1467.8	1467.8	1467.8	1467.8
12.5°	1480.2	1477.3	1475.5	1474.5	1474.5	1474.5	1474.5	1474.5
15°	1500.4	1493.7	1488.9	1488.9	1489.8	1491.8	1491.8	1493.7
17.5°	1525.3	1517.6	1512.8	1509.1	1510.9	1513.8	1515.7	1517.6
20°	1555.0	1551.2	1544.5	1540.7	1540.7	1544.5	1546.4	1547.3
22.5°	1596.2	1593.3	1590.5	1585.7	1585.7	1587.6	1591.5	1591.5
25°	1657.6	1655.7	1653.8	1649.9	1649.0	1649.0	1650.9	1652.8
27.5°	1734.3	1735.2	1733.4	1732.4	1729.5	1728.6	1731.4	1730.5
30°	1836.9	1841.7	1846.5	1842.6	1837.8	1835.0	1832.1	1828.3
32.5°	1975.9	1970.2	1966.3	1959.6	1951.0	1943.3	1937.6	1930.8
35°	2107.3	2097.7	2093.9	2099.6	2098.6	2093.9	2087.1	2081.4
37.5°	2268.3	2266.4	2268.3	2278.8	2277.0	2281.7	2268.3	2267.4
40°	2471.6	2473.5	2486.9	2499.4	2506.1	2512.8	2505.1	2497.4
42.5°	2707.4	2706.4	2711.2	2728.5	2740.0	2747.6	2731.4	2729.4
45°	2956.6	2950.0	2953.8	2968.2	2979.7	2988.3	2970.1	2970.1
47.5°	3230.9	3219.3	3207.0	3223.2	3229.9	3235.7	3221.3	3216.5
50°	3536.6	3512.7	3485.9	3492.6	3492.6	3490.7	3472.5	3471.5
52.5°	3887.6	3843.5	3794.6	3776.4	3765.8	3754.3	3722.7	3707.4
55°	4291.2	4225.1	4148.4	4101.4	4076.5	4044.8	3992.1	3977.7
57.5°	4762.9	4659.3	4527.1	4469.6	4413.9	4362.2	4303.7	4287.4
60°	5321.8	5169.4	4993.9	4887.6	4827.1	4777.3	4716.8	4714.0
62.5°	5945.0	5704.4	5505.9	5410.0	5365.9	5321.8	5264.3	5272.0
65°	6578.7	6327.6	6141.5	6063.8	6022.6	5986.2	5928.7	5937.3
67.5°	7203.8	6972.7	6768.6	6689.0	6642.9	6596.9	6545.1	6553.7
70°	7652.5	7365.8	7135.7	6959.3	6849.1	6724.5	6643.9	6623.7
72.5°	7524.0	7082.0	6716.8	6366.8	6161.6	5994.8	5881.8	5832.9
75°	6511.6	5907.6	5437.8	5008.4	4766.7	4570.2	4427.3	4338.2
77.5°	4835.8	4157.0	3601.9	3107.2	2716.0	2453.3	2268.3	2148.5
80°	2647.0	2013.3	1471.6	1034.4	760.3	631.8	558.0	522.5
82.5°	824.5	532.0	392.1	338.4	314.5	301.1	279.0	243.6
85°	262.7	230.1	213.8	204.2	194.7	169.7	116.9	106.4
87.5°	101.6	104.5	103.5	97.8	99.7	71.9	57.5	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)