

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: P268332

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268332
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-03-LED-U-5WQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18242.8 lumens
Efficiency: N/A
Efficacy: 95.5 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): 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

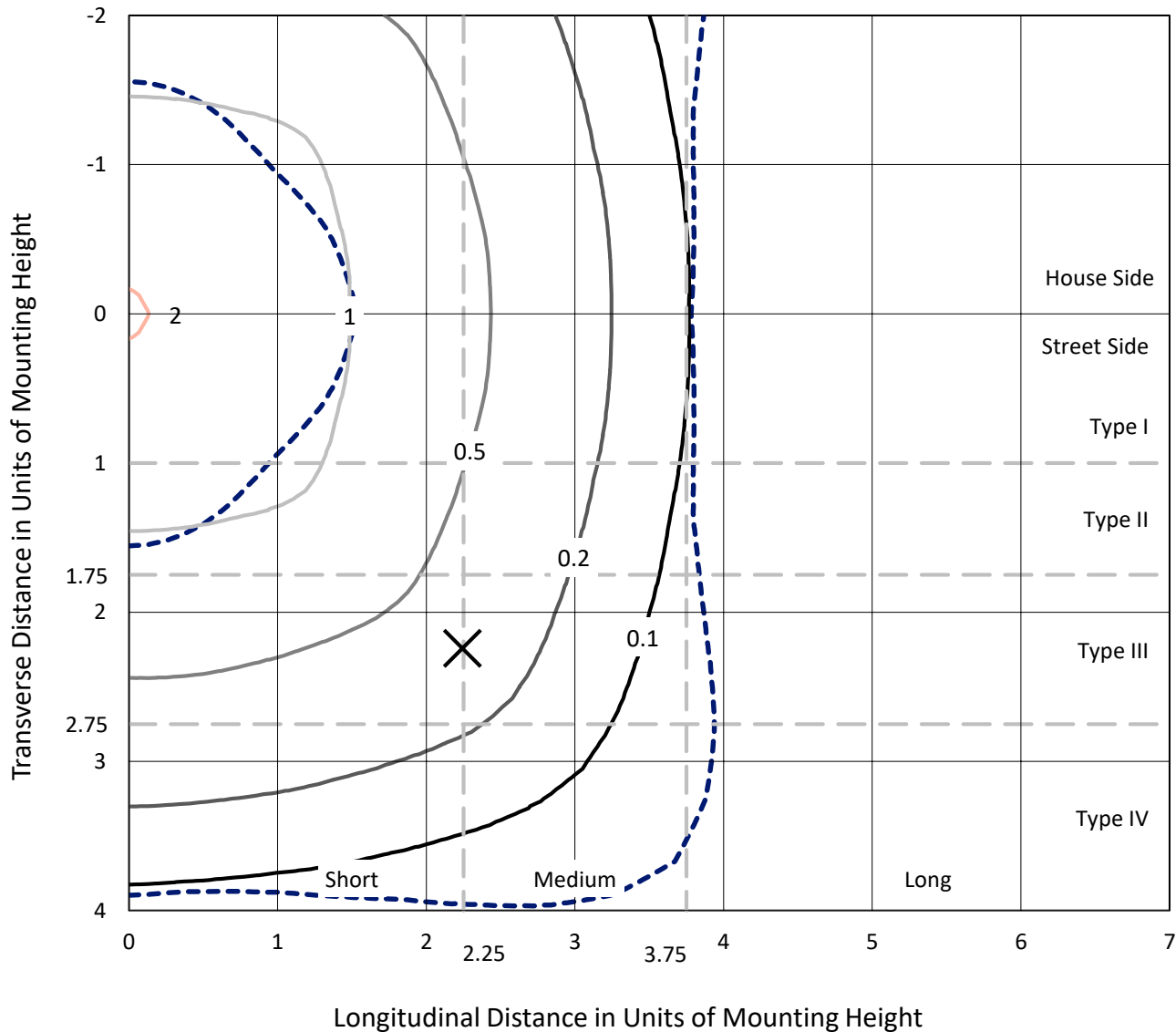


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

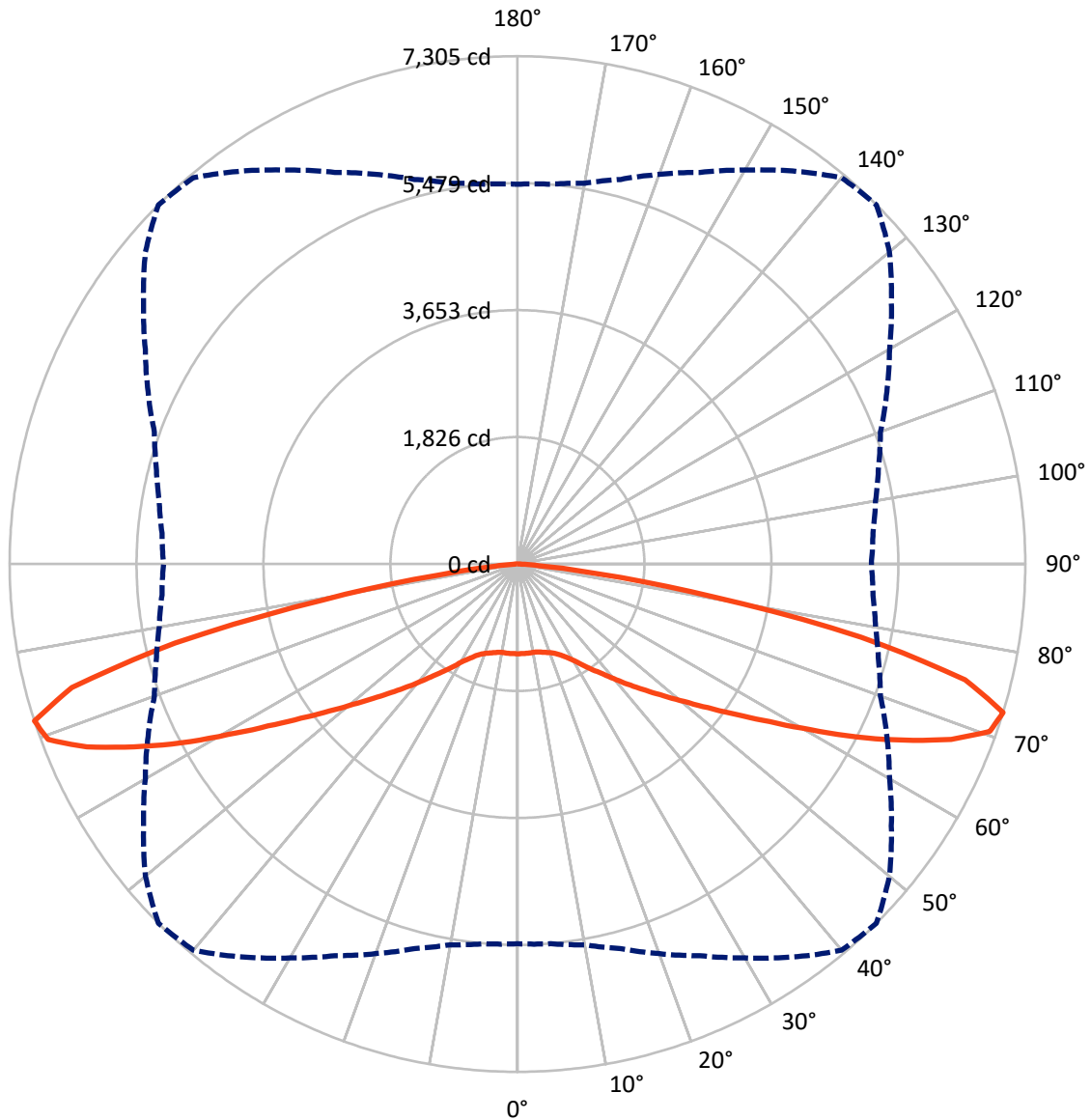


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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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	9121.4	0.0	9121.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9121.4	0.0	9121.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18242.8	0.0	18242.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	0.7
10°-20°	374.7	2.1
20°-30°	684.6	3.8
30°-40°	1180.5	6.5
40°-50°	2018.0	11.1
50°-60°	3270.9	17.9
60°-70°	5426.3	29.7
70°-80°	4779.3	26.2
80°-90°	385.4	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°	18242.8	100.0
0°-180°	18242.8	100.0



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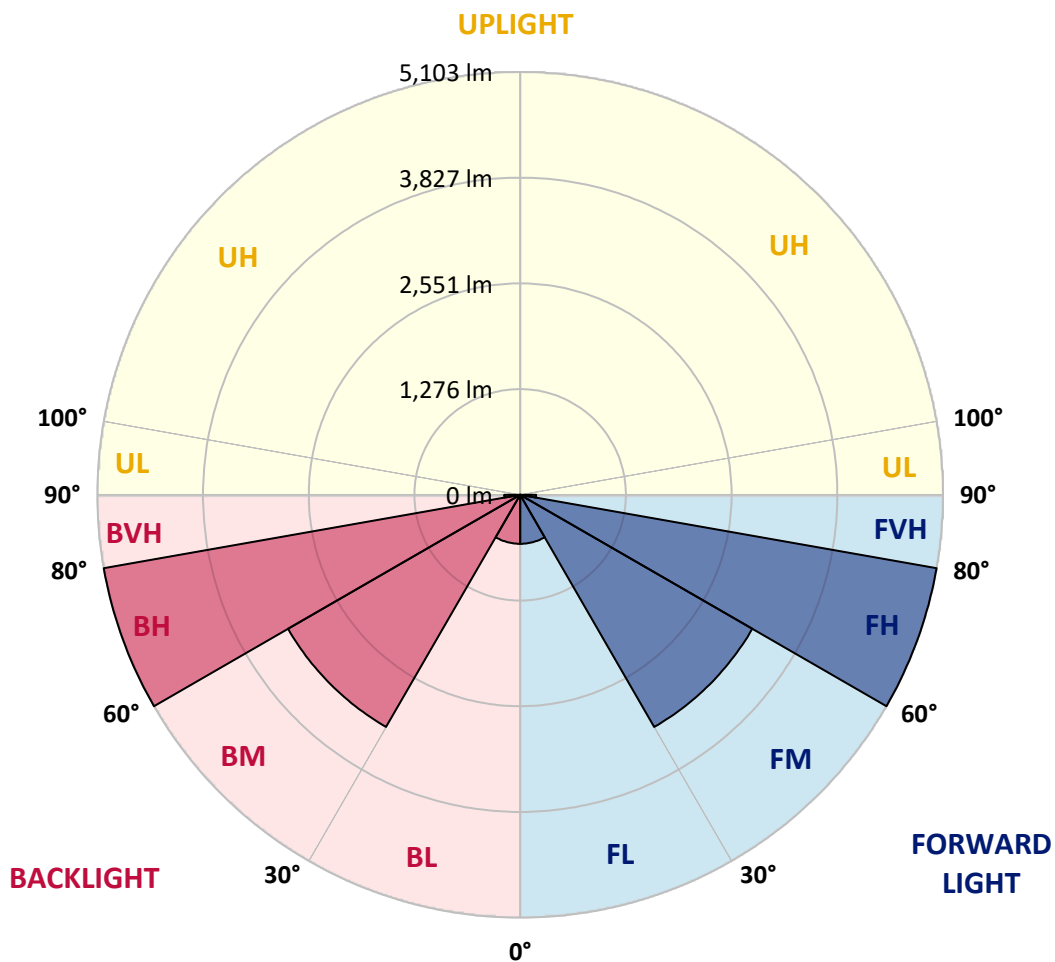
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.3	3.2			
FM	(30°-60°)	3234.6	17.7			
FH	(60°-80°)	5102.8	28.0			G3/7500
FVH	(80°-90°)	192.7	1.1			G2/225
BL	(0°-30°)	591.3	3.2	B2/1000		
BM	(30°-60°)	3234.6	17.7	B3/5000		
BH	(60°-80°)	5102.8	28.0	B5		G3/7500
BVH	(80°-90°)	192.7	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°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1291.9	1292.8	1293.6	1292.8	1292.8	1291.9	1291.0	1291.9	1291.0	1289.3	1290.1
5°	1296.1	1297.7	1297.7	1296.1	1297.0	1296.1	1294.4	1295.3	1293.6	1291.0	1291.0
7.5°	1301.0	1302.0	1302.0	1300.2	1301.0	1299.4	1297.7	1297.0	1295.3	1291.9	1289.3
10°	1308.7	1309.5	1308.7	1306.9	1306.9	1304.3	1300.2	1298.6	1295.3	1290.1	1287.7
12.5°	1316.9	1317.9	1316.9	1315.3	1314.5	1310.3	1306.9	1304.3	1302.0	1297.7	1293.6
15°	1328.8	1330.4	1328.8	1325.3	1322.8	1319.5	1317.9	1318.6	1319.5	1316.1	1312.0
17.5°	1350.4	1351.3	1348.7	1341.2	1337.8	1334.5	1334.5	1336.1	1338.7	1337.0	1332.8
20°	1390.5	1388.2	1382.2	1373.0	1368.8	1363.0	1362.2	1363.0	1363.0	1362.2	1358.7
22.5°	1440.8	1439.2	1431.5	1420.0	1414.0	1410.7	1405.7	1401.4	1400.6	1398.1	1394.8
25°	1501.1	1500.2	1490.9	1480.9	1476.8	1472.6	1468.4	1462.6	1457.5	1451.8	1448.3
27.5°	1578.1	1574.6	1561.3	1556.3	1550.5	1547.9	1542.0	1535.4	1531.3	1523.6	1519.5
30°	1662.6	1662.6	1651.7	1649.9	1649.9	1644.1	1637.4	1625.8	1618.1	1610.7	1608.1
32.5°	1747.1	1747.9	1737.1	1740.3	1742.8	1747.1	1748.7	1744.5	1739.5	1738.7	1733.6
35°	1869.3	1865.9	1855.0	1857.4	1856.6	1855.8	1855.8	1865.1	1866.7	1868.4	1858.4
37.5°	2020.6	2020.6	2009.8	2009.8	2004.7	1999.7	1993.0	1998.9	2008.2	2010.5	2003.8
40°	2193.8	2199.7	2186.4	2185.4	2187.2	2171.3	2163.7	2172.9	2178.7	2188.8	2181.3
42.5°	2397.9	2393.9	2380.4	2378.7	2369.5	2364.5	2357.8	2365.3	2374.6	2381.2	2383.8
45°	2593.8	2590.4	2575.4	2575.4	2566.2	2562.0	2565.3	2577.9	2582.1	2591.3	2600.5
47.5°	2787.1	2782.9	2772.9	2777.0	2777.9	2785.4	2796.2	2808.0	2819.7	2832.3	2836.4
50°	2984.4	2985.3	2974.5	2984.4	2997.0	3017.9	3047.3	3066.5	3090.8	3106.7	3111.6
52.5°	3164.4	3167.8	3179.6	3202.8	3228.0	3269.0	3319.1	3366.0	3406.3	3433.1	3431.3
55°	3380.3	3385.4	3413.7	3454.0	3494.9	3556.7	3631.3	3714.1	3781.1	3819.6	3795.2
57.5°	3656.5	3667.3	3699.1	3753.5	3814.6	3895.0	3997.0	4121.7	4225.4	4277.2	4237.9
60°	4035.5	4042.2	4080.6	4140.8	4214.5	4314.1	4450.5	4617.7	4764.3	4832.8	4787.6
62.5°	4535.0	4547.5	4578.4	4639.6	4714.8	4827.9	4994.2	5203.5	5385.9	5481.3	5379.2
65°	5131.5	5171.7	5197.7	5259.5	5329.9	5449.5	5623.5	5847.7	6043.5	6106.3	5988.3
67.5°	5722.3	5757.3	5802.5	5873.7	5944.9	6079.5	6241.0	6458.5	6673.6	6730.5	6547.2
70°	5980.7	6000.9	6071.1	6168.2	6304.6	6463.6	6650.2	6894.4	7160.5	7207.5	6974.8
72.5°	5462.9	5483.0	5561.5	5726.4	5964.0	6216.7	6542.1	6901.1	7252.6	7305.2	6984.9
75°	4131.7	4099.1	4215.3	4433.8	4754.2	5106.4	5561.5	6076.1	6584.0	6650.2	6267.7
77.5°	2135.4	2131.0	2219.0	2490.0	2872.4	3273.2	3774.4	4355.9	4853.0	5053.8	4742.4
80°	601.5	608.3	650.2	784.8	1008.3	1297.7	1689.4	2234.1	2640.7	2848.2	2674.2
82.5°	236.0	254.4	270.3	295.4	324.6	367.2	490.4	729.7	979.0	1169.8	958.0
85°	84.5	90.4	128.0	151.5	154.0	162.4	185.0	215.9	260.1	310.5	255.2
87.5°	31.8	35.2	41.1	67.8	67.0	61.1	74.5	77.9	58.6	53.5	66.0
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°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1288.4	1289.3	1289.3	1290.1	1291.0	1291.0	1292.8	1292.8
5°	1289.3	1289.3	1287.7	1288.4	1287.7	1287.7	1288.4	1288.4
7.5°	1287.7	1286.8	1285.1	1284.3	1282.7	1282.7	1282.7	1282.7
10°	1285.1	1284.3	1282.7	1281.8	1281.1	1281.1	1281.1	1281.1
12.5°	1291.9	1289.3	1287.7	1286.8	1286.8	1286.8	1286.8	1286.8
15°	1309.5	1303.6	1299.4	1299.4	1300.2	1302.0	1302.0	1303.6
17.5°	1331.2	1324.6	1320.2	1316.9	1318.6	1321.1	1322.8	1324.6
20°	1357.1	1353.7	1347.9	1344.7	1344.7	1347.9	1349.7	1350.4
22.5°	1393.1	1390.5	1388.2	1383.8	1383.8	1385.5	1388.9	1388.9
25°	1446.7	1445.1	1443.2	1440.0	1439.2	1439.2	1440.8	1442.5
27.5°	1513.6	1514.5	1512.7	1511.9	1509.4	1508.6	1511.0	1510.2
30°	1603.1	1607.2	1611.5	1608.1	1604.0	1601.5	1599.0	1595.6
32.5°	1724.4	1719.4	1716.1	1710.3	1702.6	1696.0	1691.0	1685.1
35°	1839.1	1830.7	1827.3	1832.5	1831.6	1827.3	1821.6	1816.6
37.5°	1979.7	1978.0	1979.7	1988.8	1987.2	1991.4	1979.7	1978.7
40°	2157.0	2158.6	2170.5	2181.3	2187.2	2193.0	2186.4	2179.6
42.5°	2362.8	2362.1	2366.1	2381.2	2391.3	2397.9	2383.8	2382.0
45°	2580.4	2574.5	2577.9	2590.4	2600.5	2608.0	2592.1	2592.1
47.5°	2819.7	2809.7	2798.8	2813.0	2818.8	2823.9	2811.3	2807.2
50°	3086.5	3065.6	3042.3	3048.0	3048.0	3046.4	3030.5	3029.8
52.5°	3392.9	3354.4	3311.7	3295.8	3286.5	3276.6	3248.9	3235.5
55°	3745.2	3687.4	3620.3	3579.4	3557.6	3530.1	3484.0	3471.5
57.5°	4156.7	4066.4	3950.9	3900.7	3852.2	3806.9	3756.0	3741.7
60°	4644.5	4511.5	4358.3	4265.5	4212.8	4169.4	4116.7	4114.1
62.5°	5188.4	4978.3	4805.3	4721.5	4683.0	4644.5	4594.3	4601.1
65°	5741.4	5522.3	5359.9	5292.2	5256.3	5224.5	5174.1	5181.8
67.5°	6287.0	6085.4	5907.2	5837.6	5797.5	5757.3	5712.2	5719.7
70°	6678.5	6428.5	6227.6	6073.6	5977.4	5868.6	5798.4	5780.9
72.5°	6566.5	6180.8	5862.0	5556.6	5377.6	5231.9	5133.2	5090.5
75°	5682.9	5155.8	4745.7	4371.0	4160.1	3988.6	3863.9	3786.0
77.5°	4220.3	3628.0	3143.4	2711.8	2370.4	2141.1	1979.7	1875.0
80°	2310.1	1757.1	1284.3	902.7	663.5	551.4	487.1	456.0
82.5°	719.5	464.3	342.3	295.4	274.4	262.8	243.5	212.4
85°	229.2	200.9	186.6	178.3	169.9	148.1	102.0	92.9
87.5°	88.8	91.2	90.4	85.3	87.0	62.7	50.1	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)