

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: P192560

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13573.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - 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

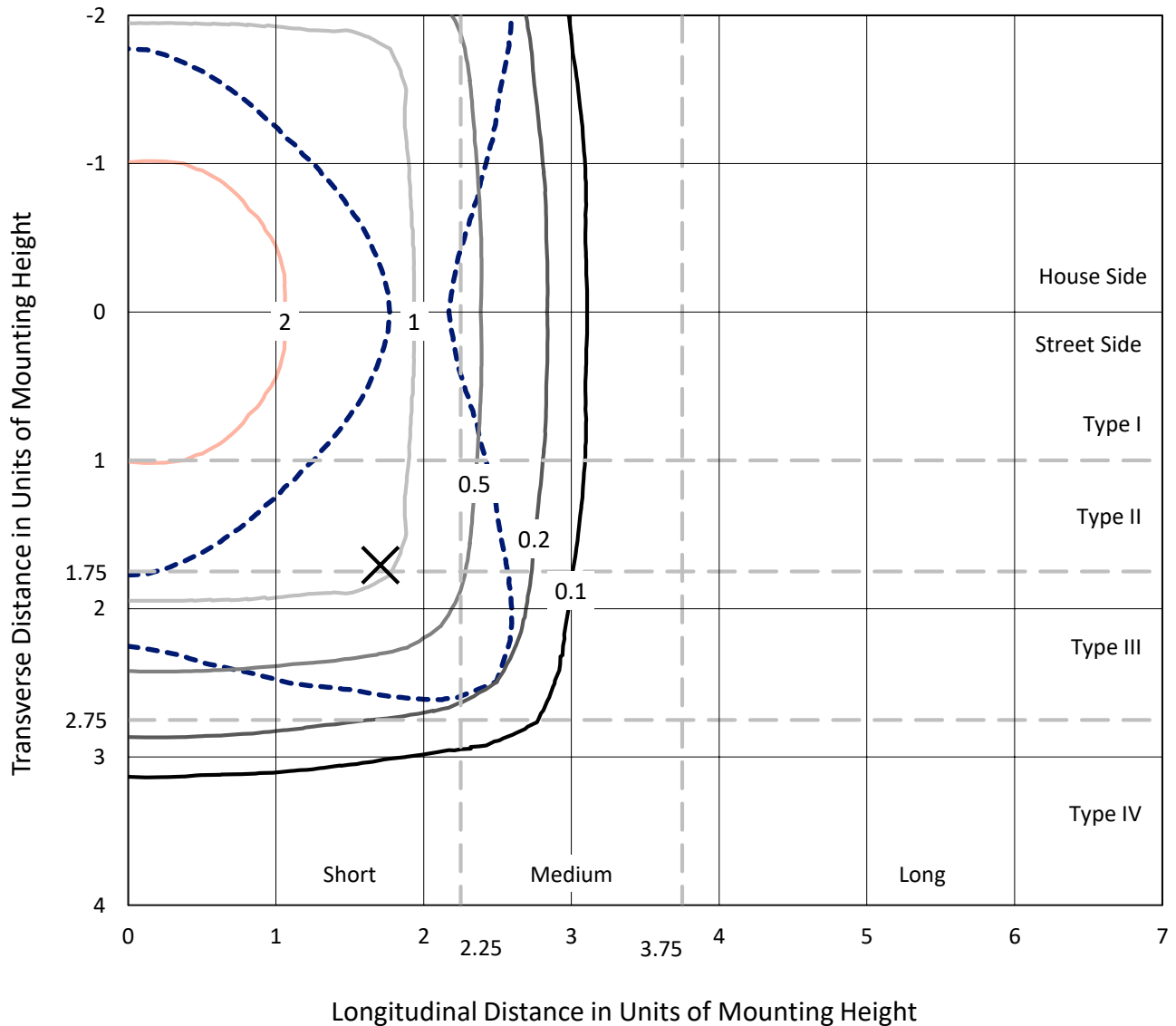


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Iso-Footcandle Lines of Horizontal Illumination

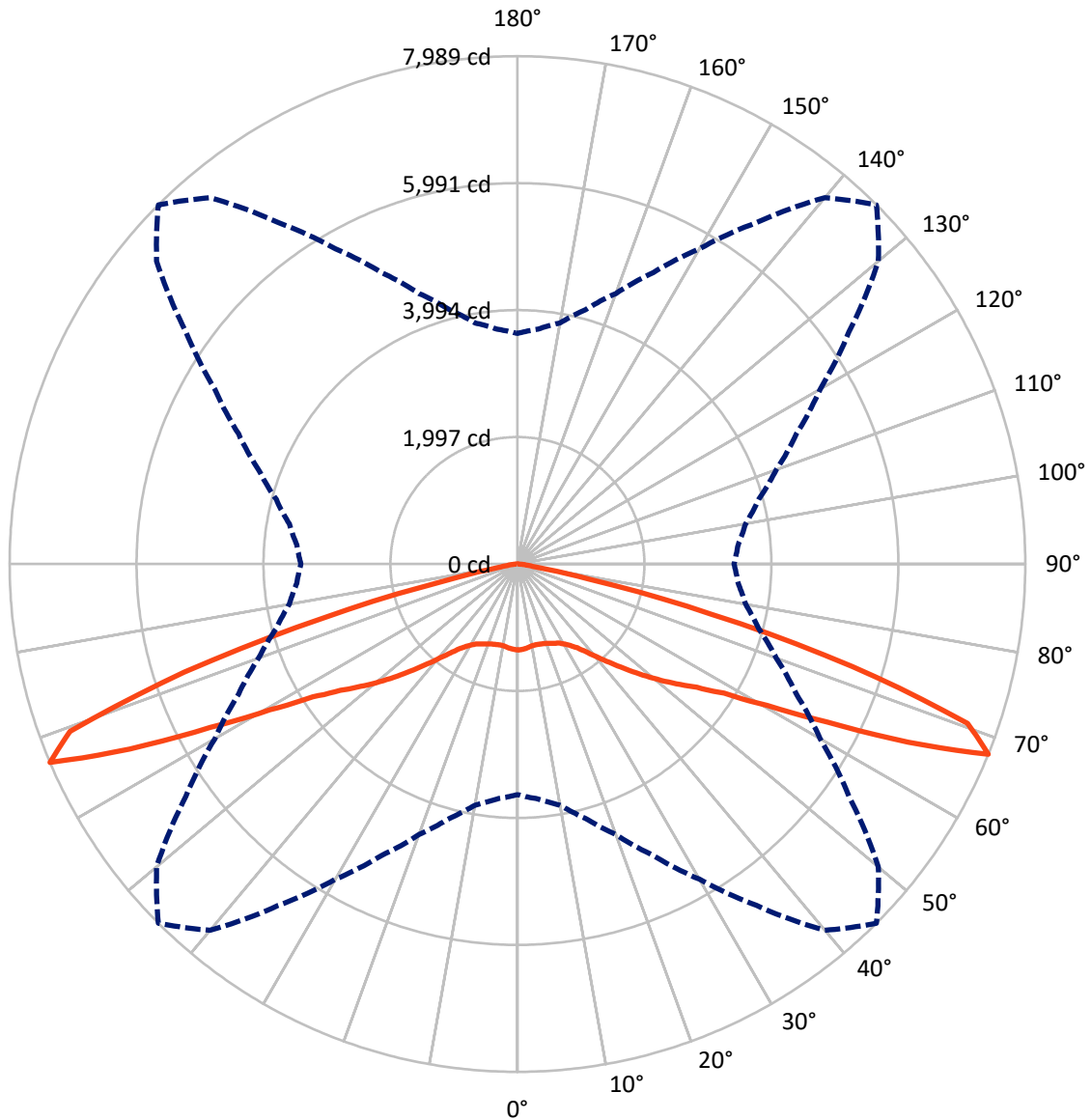
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6786.6	0.0	6786.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6786.6	0.0	6786.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13573.3	0.0	13573.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	0.9
10°-20°	367.4	2.7
20°-30°	624.5	4.6
30°-40°	1020.9	7.5
40°-50°	1822.5	13.4
50°-60°	3072.8	22.6
60°-70°	4768.5	35.1
70°-80°	1675.4	12.3
80°-90°	94.7	0.7
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°	13573.3	100.0
0°-180°	13573.3	100.0

Coefficient of Utilization



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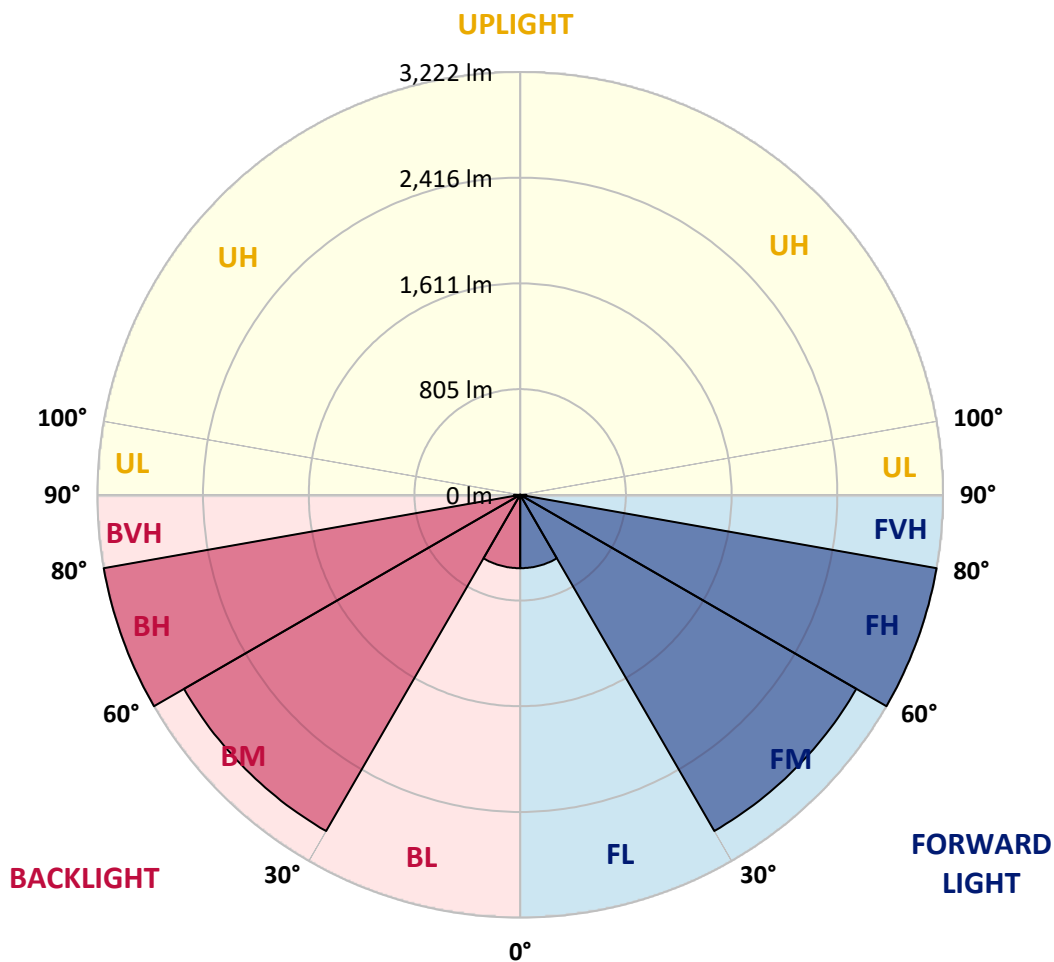
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.2	4.1			
FM (30°-60°)	2958.1	21.8			
FH (60°-80°)	3222.0	23.7			G2/5000
FVH (80°-90°)	47.3	0.3			G1/100
BL (0°-30°)	559.2	4.1	B2/1000		
BM (30°-60°)	2958.1	21.8	B3/5000		
BH (60°-80°)	3222.0	23.7	B4/5000		G2/5000
BVH (80°-90°)	47.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6
2.5°	1347.6	1349.0	1349.0	1349.0	1348.3	1348.3	1347.0	1348.3	1347.6	1345.7	1346.4
5°	1336.5	1337.7	1337.7	1337.0	1338.9	1338.3	1336.5	1337.7	1337.0	1335.8	1336.5
7.5°	1320.2	1322.0	1322.0	1321.4	1323.3	1322.7	1321.4	1322.0	1322.0	1320.2	1320.2
10°	1302.1	1303.4	1303.4	1302.7	1305.8	1305.8	1305.2	1307.1	1307.8	1305.8	1304.5
12.5°	1285.2	1287.1	1287.1	1289.6	1292.7	1293.9	1297.1	1299.5	1302.1	1301.5	1299.0
15°	1275.3	1276.4	1279.0	1282.0	1287.1	1291.5	1296.5	1302.1	1307.1	1308.3	1304.5
17.5°	1269.0	1270.9	1274.6	1279.0	1285.9	1293.3	1300.8	1308.3	1315.2	1317.6	1313.3
20°	1267.1	1268.4	1272.1	1279.7	1288.9	1300.1	1310.8	1319.6	1328.9	1332.1	1328.9
22.5°	1270.9	1273.3	1277.7	1286.4	1299.0	1313.3	1325.8	1337.7	1349.5	1355.2	1350.8
25°	1287.7	1290.3	1295.9	1307.1	1320.8	1335.8	1350.1	1363.9	1374.5	1380.1	1377.0
27.5°	1319.0	1322.0	1328.9	1340.2	1355.2	1371.3	1386.9	1398.2	1406.9	1408.8	1405.1
30°	1365.7	1372.7	1380.7	1393.2	1410.6	1424.4	1440.0	1450.0	1460.6	1460.6	1457.5
32.5°	1438.7	1445.6	1454.4	1466.3	1479.9	1495.0	1508.7	1517.4	1528.6	1529.3	1521.8
35°	1547.9	1551.2	1558.6	1566.1	1578.6	1591.7	1603.6	1609.2	1618.5	1619.1	1612.3
37.5°	1692.2	1692.9	1697.8	1700.3	1711.5	1725.9	1737.1	1740.9	1749.7	1748.3	1741.5
40°	1860.1	1863.2	1865.0	1868.9	1880.7	1894.4	1906.2	1908.2	1917.5	1915.7	1906.9
42.5°	2054.2	2055.5	2066.1	2071.7	2082.9	2089.8	2104.8	2106.6	2117.9	2112.8	2102.9
45°	2272.0	2283.3	2293.4	2304.5	2316.4	2324.5	2336.4	2333.9	2341.3	2333.9	2328.2
47.5°	2501.2	2509.2	2531.7	2549.2	2568.5	2575.5	2592.2	2584.7	2592.2	2581.7	2579.8
50°	2753.4	2767.6	2786.9	2807.0	2827.6	2838.9	2860.7	2851.3	2861.3	2851.3	2845.7
52.5°	3001.8	3005.5	3048.0	3077.3	3106.0	3119.2	3132.3	3127.9	3128.4	3127.9	3122.2
55°	3237.7	3246.4	3288.9	3328.8	3378.8	3415.6	3438.1	3435.5	3429.9	3424.3	3415.0
57.5°	3503.6	3512.3	3561.1	3610.4	3667.2	3719.6	3765.2	3811.9	3830.1	3835.1	3814.5
60°	3863.2	3862.6	3927.5	3987.4	4068.5	4146.5	4246.4	4348.2	4464.9	4519.2	4447.4
62.5°	4228.9	4243.9	4337.6	4443.7	4611.0	4773.9	4957.9	5139.0	5323.7	5474.2	5314.4
65°	4185.2	4242.6	4381.9	4622.2	4931.2	5298.2	5695.1	6115.2	6494.8	6755.7	6462.9
67.5°	3627.2	3709.1	3850.7	4142.8	4529.2	5058.4	5725.1	6556.0	7521.5	7988.5	7409.9
70°	2629.1	2721.5	2870.0	3155.3	3538.0	4041.1	4765.2	5762.6	7040.8	7511.6	6874.3
72.5°	1308.3	1358.2	1450.0	1631.7	1921.4	2329.5	2986.2	3945.0	5075.9	5507.9	4925.5
75°	444.4	467.5	483.2	542.5	634.1	794.7	1121.1	1724.6	2631.0	3154.1	2593.5
77.5°	256.5	257.2	267.8	278.4	294.0	311.5	355.2	466.3	806.5	1145.4	834.5
80°	166.1	165.4	174.2	182.3	192.9	201.6	204.1	216.0	249.0	295.2	264.1
82.5°	86.1	96.8	116.2	126.7	146.7	150.4	145.5	141.1	149.1	154.8	158.5
85°	47.4	41.2	61.8	79.9	88.6	89.9	89.9	84.9	88.1	86.1	93.6
87.5°	21.9	20.0	24.4	39.4	41.8	35.6	37.4	33.1	23.7	23.1	26.2
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°	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6
2.5°	1346.4	1347.0	1347.0	1349.0	1349.5	1350.8	1352.0	1352.6
5°	1335.8	1337.7	1336.5	1338.3	1338.3	1339.5	1339.5	1340.2
7.5°	1320.2	1322.0	1322.0	1322.0	1321.4	1323.3	1323.3	1323.3
10°	1303.9	1305.2	1304.5	1303.4	1302.1	1303.9	1303.4	1302.7
12.5°	1299.0	1295.9	1293.3	1292.1	1289.6	1290.3	1288.3	1288.3
15°	1302.1	1296.5	1292.1	1290.3	1287.7	1286.4	1285.2	1285.9
17.5°	1310.2	1303.4	1297.7	1294.6	1291.5	1289.6	1287.1	1287.7
20°	1324.5	1316.5	1308.3	1302.1	1296.5	1293.3	1291.5	1290.8
22.5°	1345.7	1333.9	1322.0	1312.6	1305.2	1300.8	1299.0	1297.7
25°	1370.1	1357.0	1343.3	1332.6	1325.2	1319.6	1315.8	1315.8
27.5°	1400.7	1390.1	1377.6	1365.0	1358.2	1352.6	1350.1	1349.0
30°	1451.8	1441.9	1432.0	1420.1	1411.3	1405.7	1401.4	1397.5
32.5°	1517.4	1509.3	1501.2	1492.5	1484.3	1476.8	1470.0	1467.0
35°	1609.8	1603.6	1597.9	1588.0	1584.8	1580.4	1576.7	1573.6
37.5°	1737.1	1734.6	1734.6	1724.0	1721.5	1719.6	1715.9	1716.6
40°	1904.4	1906.9	1903.9	1900.0	1898.2	1893.1	1893.1	1897.5
42.5°	2102.2	2104.2	2111.0	2104.8	2111.7	2105.4	2101.7	2104.8
45°	2332.0	2338.9	2352.6	2346.4	2350.7	2340.2	2327.0	2327.7
47.5°	2589.8	2596.0	2601.7	2597.3	2597.8	2580.3	2563.0	2558.7
50°	2857.5	2860.1	2863.1	2856.9	2858.2	2838.9	2818.9	2819.6
52.5°	3122.2	3134.1	3146.5	3129.7	3126.0	3104.2	3076.0	3064.8
55°	3425.0	3441.7	3427.5	3398.2	3368.8	3339.4	3302.6	3296.4
57.5°	3798.3	3769.6	3724.5	3669.0	3628.5	3587.3	3549.9	3534.2
60°	4317.6	4209.5	4128.5	4046.1	3994.2	3943.7	3894.3	3886.9
62.5°	5051.6	4865.0	4703.3	4532.9	4393.8	4285.1	4198.4	4174.0
65°	5971.7	5530.3	5147.8	4790.7	4480.5	4246.4	4099.1	4034.2
67.5°	6367.4	5496.1	4840.0	4333.2	3927.5	3644.1	3485.0	3405.6
70°	5595.2	4557.9	3844.4	3337.0	2967.5	2665.3	2521.1	2436.3
72.5°	3849.4	2899.4	2292.7	1871.4	1576.1	1323.3	1223.3	1215.9
75°	1728.4	1144.8	789.0	607.9	511.9	445.0	424.5	408.8
77.5°	483.8	357.8	318.9	298.4	278.4	255.3	246.6	248.4
80°	235.4	222.3	213.5	200.4	182.3	162.9	154.2	157.9
82.5°	156.0	154.2	159.8	150.4	124.2	105.4	88.6	81.2
85°	94.8	96.1	98.0	98.7	83.7	58.7	40.0	44.9
87.5°	37.4	43.0	46.8	48.7	45.6	28.1	22.5	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)