

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: P268402

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268402
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-04-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14438.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' 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

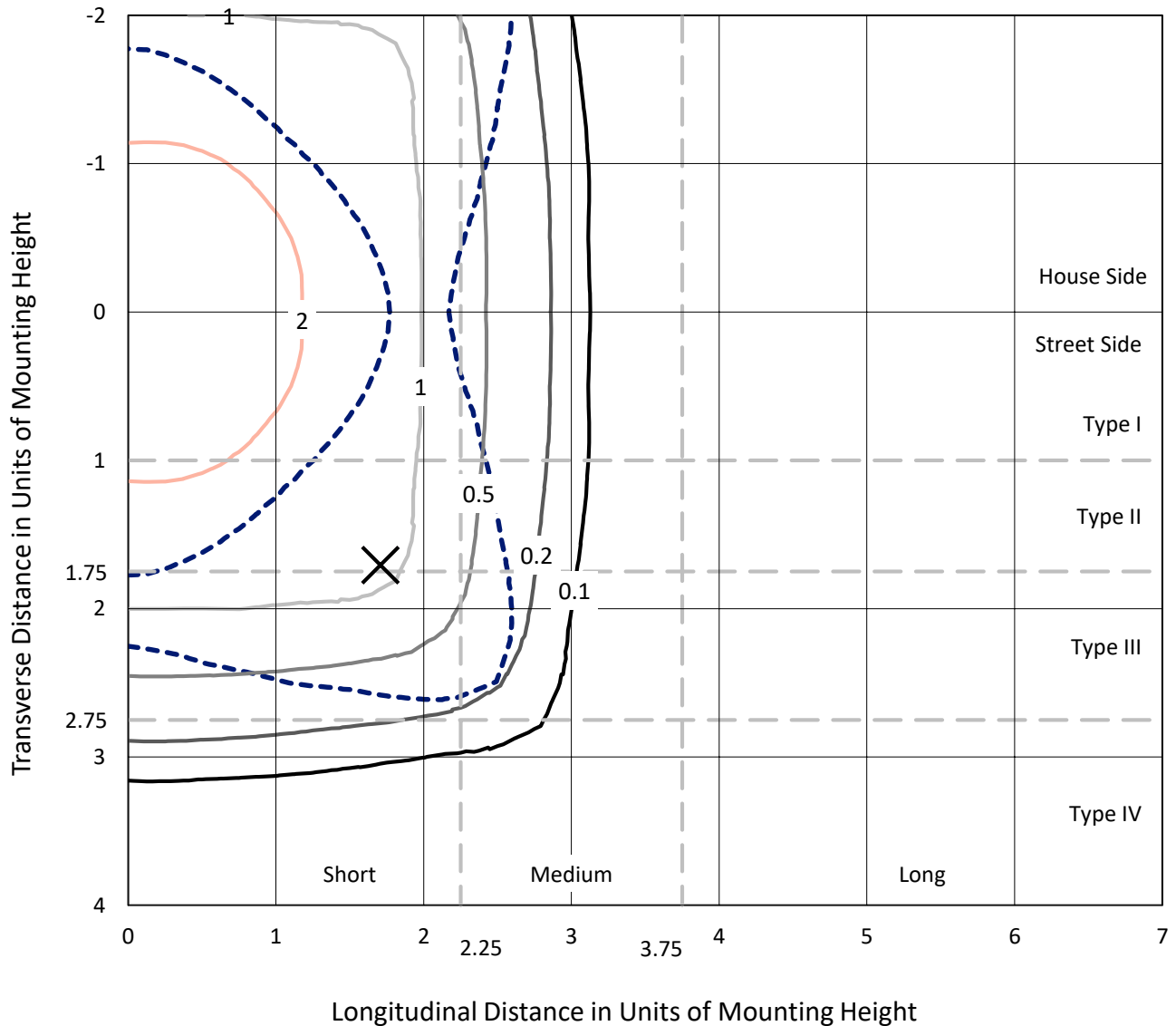


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

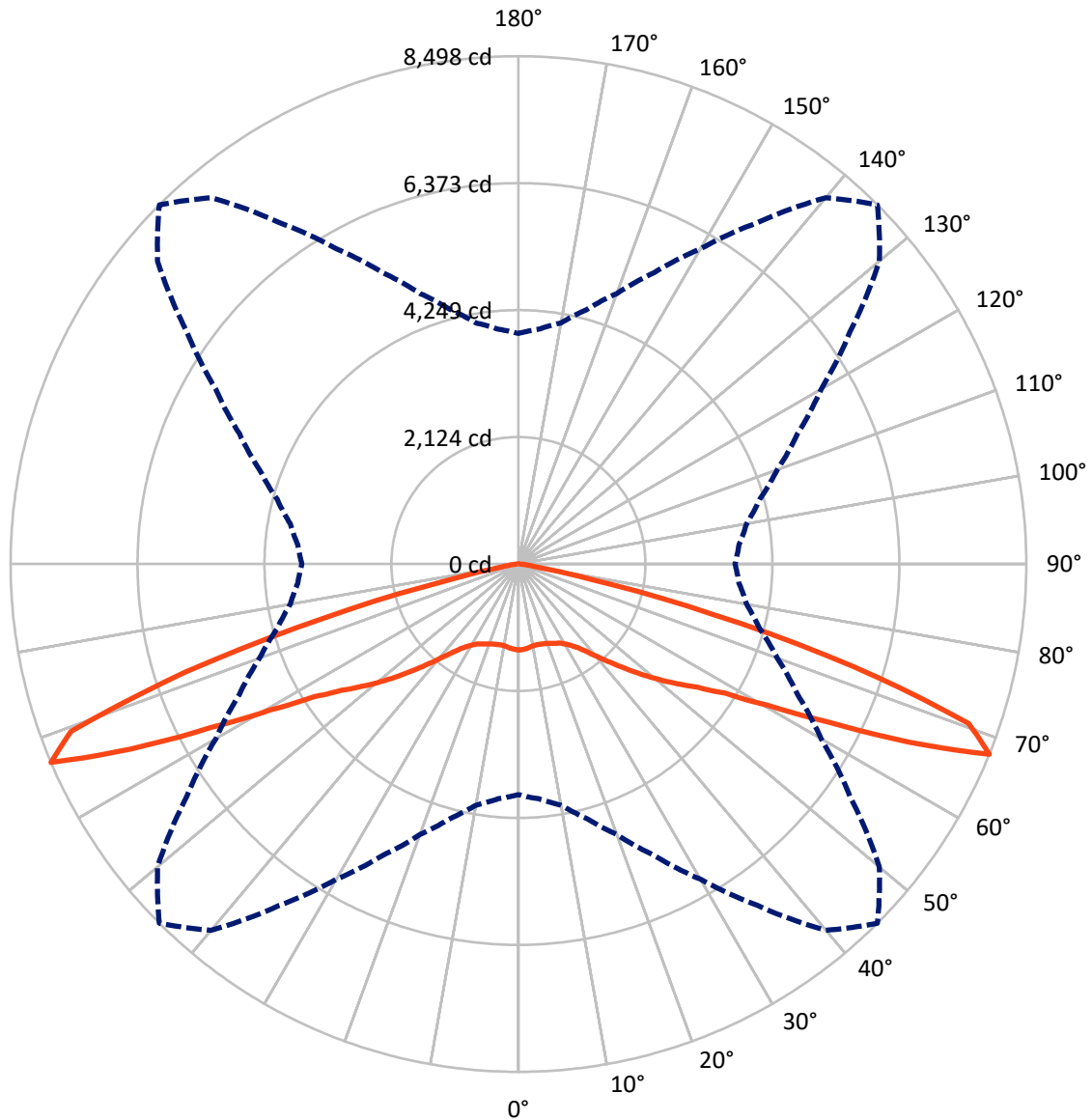


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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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	7219.3	0.0	7219.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7219.3	0.0	7219.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14438.6	0.0	14438.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	0.9
10°-20°	390.8	2.7
20°-30°	664.3	4.6
30°-40°	1086.0	7.5
40°-50°	1938.7	13.4
50°-60°	3268.7	22.6
60°-70°	5072.5	35.1
70°-80°	1782.2	12.3
80°-90°	100.7	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°	14438.6	100.0
0°-180°	14438.6	100.0



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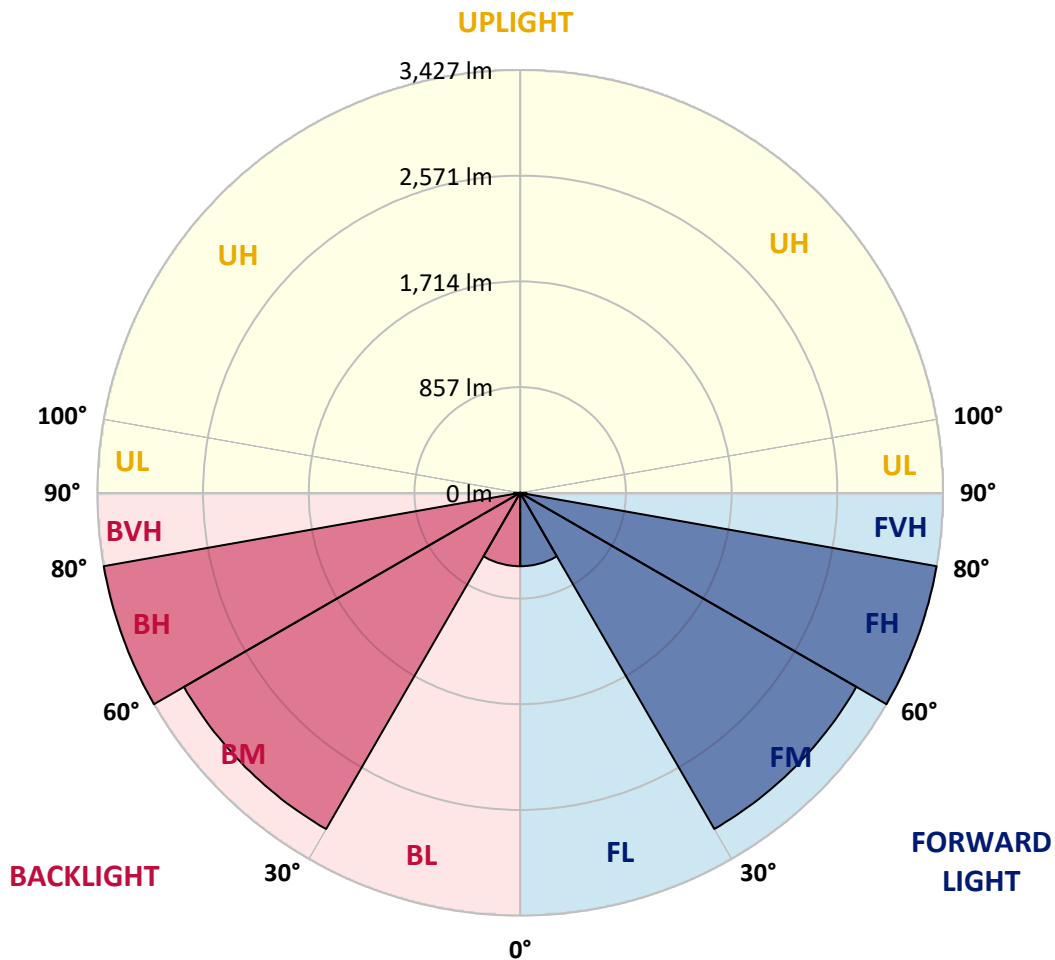
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.9	4.1			
FM	(30°-60°)	3146.7	21.8			
FH	(60°-80°)	3427.4	23.7			G2/5000
FVH	(80°-90°)	50.4	0.3			G1/100
BL	(0°-30°)	594.9	4.1	B2/1000		
BM	(30°-60°)	3146.7	21.8	B3/5000		
BH	(60°-80°)	3427.4	23.7	B4/5000		G2/5000
BVH	(80°-90°)	50.4	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°	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8
2.5°	1433.5	1435.0	1435.0	1435.0	1434.2	1434.2	1432.8	1434.2	1433.5	1431.5	1432.2
5°	1421.6	1422.9	1422.9	1422.2	1424.3	1423.6	1421.6	1422.9	1422.2	1420.8	1421.6
7.5°	1404.3	1406.3	1406.3	1405.7	1407.6	1406.9	1405.7	1406.3	1406.3	1404.3	1404.3
10°	1385.0	1386.4	1386.4	1385.7	1389.0	1389.0	1388.4	1390.3	1391.0	1389.0	1387.7
12.5°	1367.1	1369.1	1369.1	1371.8	1375.1	1376.5	1379.7	1382.4	1385.0	1384.4	1381.8
15°	1356.5	1357.9	1360.6	1363.8	1369.1	1373.8	1379.1	1385.0	1390.3	1391.7	1387.7
17.5°	1350.0	1351.9	1355.8	1360.6	1367.8	1375.8	1383.7	1391.7	1399.0	1401.6	1397.0
20°	1347.8	1349.3	1353.1	1361.2	1371.2	1383.1	1394.3	1403.7	1413.7	1416.9	1413.7
22.5°	1351.9	1354.6	1359.1	1368.5	1381.8	1397.0	1410.2	1422.9	1435.5	1441.5	1436.8
25°	1369.8	1372.5	1378.4	1390.3	1404.9	1420.8	1436.2	1450.9	1462.1	1468.1	1464.7
27.5°	1403.1	1406.3	1413.7	1425.6	1441.5	1458.8	1475.3	1487.4	1496.7	1498.6	1494.6
30°	1452.7	1460.1	1468.8	1482.1	1500.6	1515.3	1531.8	1542.4	1553.8	1553.8	1550.5
32.5°	1530.5	1537.8	1547.2	1559.6	1574.3	1590.3	1604.8	1614.2	1626.1	1626.8	1618.7
35°	1646.8	1649.9	1658.0	1665.9	1679.2	1693.1	1705.8	1711.8	1721.7	1722.4	1715.0
37.5°	1800.1	1800.7	1806.0	1808.6	1820.7	1836.0	1847.9	1851.9	1861.2	1859.9	1852.6
40°	1978.6	1982.0	1983.9	1987.9	2000.5	2015.2	2027.8	2029.8	2039.8	2037.7	2028.6
42.5°	2185.1	2186.6	2197.9	2203.8	2215.7	2223.0	2238.9	2240.9	2252.9	2247.6	2237.0
45°	2416.9	2428.8	2439.4	2451.5	2464.1	2472.8	2485.3	2482.6	2490.6	2482.6	2476.6
47.5°	2660.6	2669.3	2693.2	2711.8	2732.4	2739.7	2757.5	2749.6	2757.5	2746.3	2744.2
50°	2928.8	2944.1	2964.8	2986.0	3007.9	3019.8	3043.1	3033.0	3043.7	3033.0	3027.1
52.5°	3193.1	3197.1	3242.3	3273.5	3304.1	3318.0	3332.0	3327.2	3328.0	3327.2	3321.3
55°	3444.1	3453.4	3498.5	3541.1	3594.2	3633.4	3657.3	3654.7	3648.6	3642.6	3632.7
57.5°	3727.0	3736.3	3788.1	3840.6	3900.9	3956.8	4005.3	4054.9	4074.3	4079.6	4057.6
60°	4109.4	4108.8	4177.7	4241.5	4327.9	4410.9	4517.0	4625.4	4749.5	4807.3	4731.0
62.5°	4498.5	4514.4	4614.1	4726.9	4904.8	5078.2	5274.0	5466.6	5663.2	5823.3	5653.3
65°	4452.0	4513.2	4661.2	4916.9	5245.6	5636.0	6058.2	6505.0	6908.9	7186.4	6875.0
67.5°	3858.4	3945.4	4096.1	4406.8	4817.9	5380.9	6090.1	6973.9	8001.1	8497.7	7882.2
70°	2796.8	2895.0	3053.0	3356.4	3763.4	4298.7	5068.9	6129.9	7489.8	7990.5	7312.6
72.5°	1391.7	1444.8	1542.4	1735.6	2043.7	2478.1	3176.5	4196.4	5399.5	5859.0	5239.5
75°	472.8	497.3	513.9	577.0	674.5	845.2	1192.5	1834.6	2798.7	3355.1	2758.9
77.5°	272.8	273.5	284.9	296.1	312.7	331.4	377.7	496.0	857.9	1218.5	887.7
80°	176.6	176.0	185.2	193.9	205.2	214.4	217.1	229.7	264.9	314.0	280.9
82.5°	91.6	102.9	123.4	134.7	156.0	160.0	154.7	150.0	158.7	164.7	168.6
85°	50.5	43.8	65.8	85.0	94.3	95.6	95.6	90.3	93.7	91.6	99.6
87.5°	23.3	21.2	26.0	41.9	44.5	37.9	39.9	35.3	25.2	24.6	27.8
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°	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8	1438.8
2.5°	1432.2	1432.8	1432.8	1435.0	1435.5	1436.8	1438.1	1438.8
5°	1420.8	1422.9	1421.6	1423.6	1423.6	1424.9	1424.9	1425.6
7.5°	1404.3	1406.3	1406.3	1406.3	1405.7	1407.6	1407.6	1407.6
10°	1387.1	1388.4	1387.7	1386.4	1385.0	1387.1	1386.4	1385.7
12.5°	1381.8	1378.4	1375.8	1374.4	1371.8	1372.5	1370.5	1370.5
15°	1385.0	1379.1	1374.4	1372.5	1369.8	1368.5	1367.1	1367.8
17.5°	1393.7	1386.4	1380.4	1377.1	1373.8	1371.8	1369.1	1369.8
20°	1409.0	1400.4	1391.7	1385.0	1379.1	1375.8	1373.8	1373.1
22.5°	1431.5	1419.0	1406.3	1396.3	1388.4	1383.7	1381.8	1380.4
25°	1457.5	1443.4	1428.9	1417.6	1409.6	1403.7	1399.6	1399.6
27.5°	1490.0	1478.7	1465.5	1452.1	1444.8	1438.8	1436.2	1435.0
30°	1544.5	1533.9	1523.2	1510.6	1501.2	1495.3	1490.6	1486.7
32.5°	1614.2	1605.5	1596.8	1587.7	1579.0	1571.0	1563.7	1560.4
35°	1712.3	1705.8	1699.9	1689.3	1685.8	1681.2	1677.2	1673.9
37.5°	1847.9	1845.2	1845.2	1833.9	1831.3	1829.3	1825.3	1826.0
40°	2025.9	2028.6	2025.1	2021.1	2019.2	2013.9	2013.9	2018.5
42.5°	2236.3	2238.2	2245.7	2238.9	2246.3	2239.7	2235.6	2238.9
45°	2480.7	2487.9	2502.6	2495.9	2500.6	2489.4	2475.4	2476.0
47.5°	2754.9	2761.5	2767.5	2762.8	2763.5	2745.0	2726.4	2721.7
50°	3039.8	3042.4	3045.8	3039.1	3040.5	3019.8	2998.6	2999.3
52.5°	3321.3	3333.9	3347.2	3329.3	3325.3	3302.0	3272.2	3260.2
55°	3643.3	3661.2	3646.0	3614.8	3583.6	3552.3	3513.2	3506.5
57.5°	4040.3	4009.9	3962.1	3903.0	3859.7	3815.9	3776.1	3759.4
60°	4592.9	4478.0	4391.6	4304.0	4248.9	4195.1	4142.7	4134.7
62.5°	5373.8	5175.1	5003.2	4821.9	4673.8	4558.3	4466.1	4440.1
65°	6352.4	5882.9	5475.9	5096.2	4766.0	4517.0	4360.5	4291.4
67.5°	6773.4	5846.3	5148.5	4609.5	4177.7	3876.4	3707.0	3622.8
70°	5952.0	4848.4	4089.5	3549.7	3156.6	2835.2	2681.9	2591.5
72.5°	4094.8	3084.2	2438.8	1990.6	1676.5	1407.6	1301.5	1293.5
75°	1838.7	1217.7	839.2	646.7	544.5	473.4	451.5	434.9
77.5°	514.5	380.4	339.3	317.5	296.1	271.6	262.2	264.3
80°	250.3	236.3	227.1	213.2	193.9	173.4	164.0	168.1
82.5°	165.9	164.0	170.0	160.0	132.1	112.2	94.3	86.2
85°	100.9	102.2	104.3	104.9	89.0	62.4	42.5	47.8
87.5°	39.9	45.9	49.8	51.8	48.5	29.9	24.0	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)