

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: P200226

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200226
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: GAP-AF-02-LED-U-5MQ-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 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: 14315 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

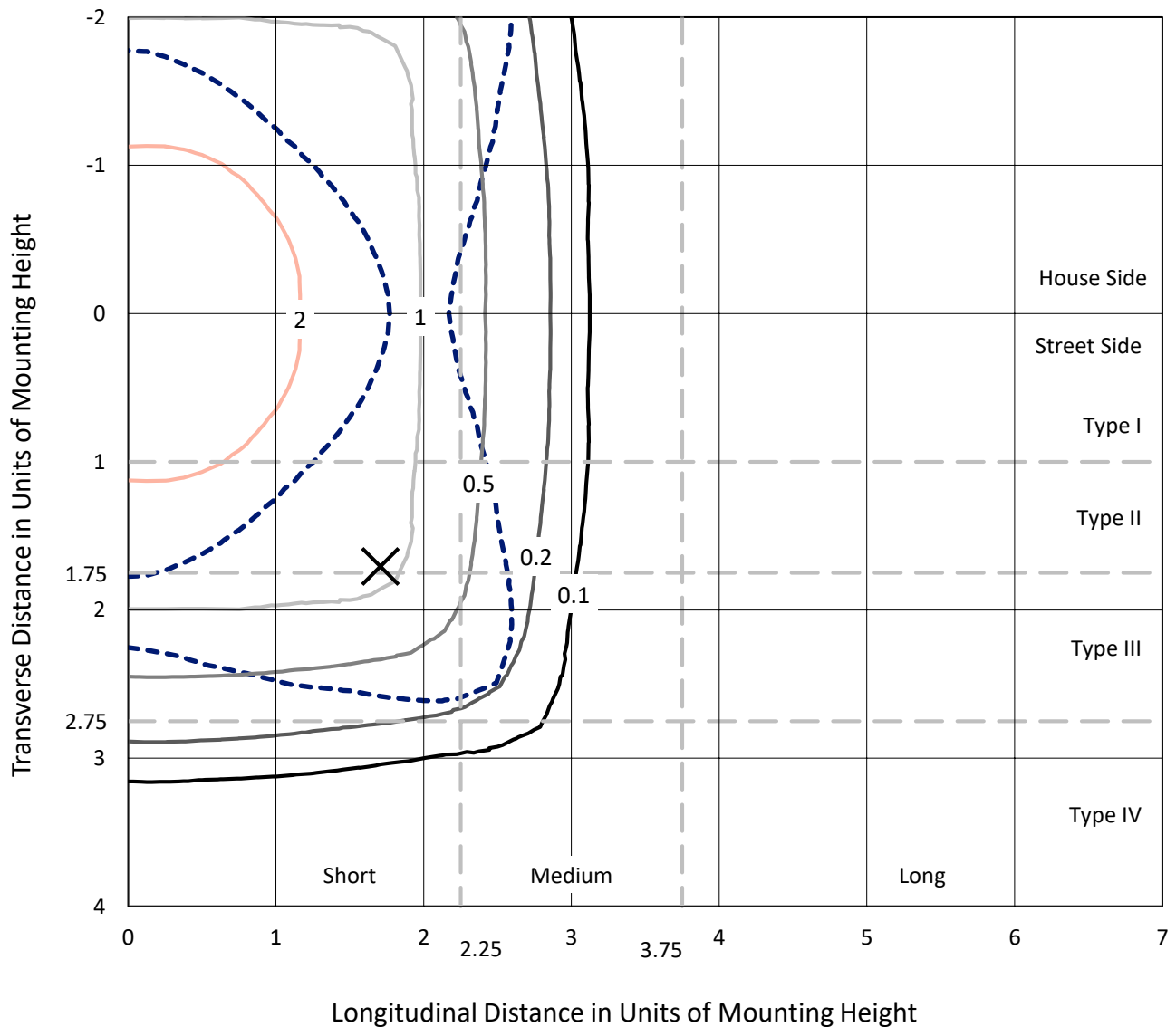


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

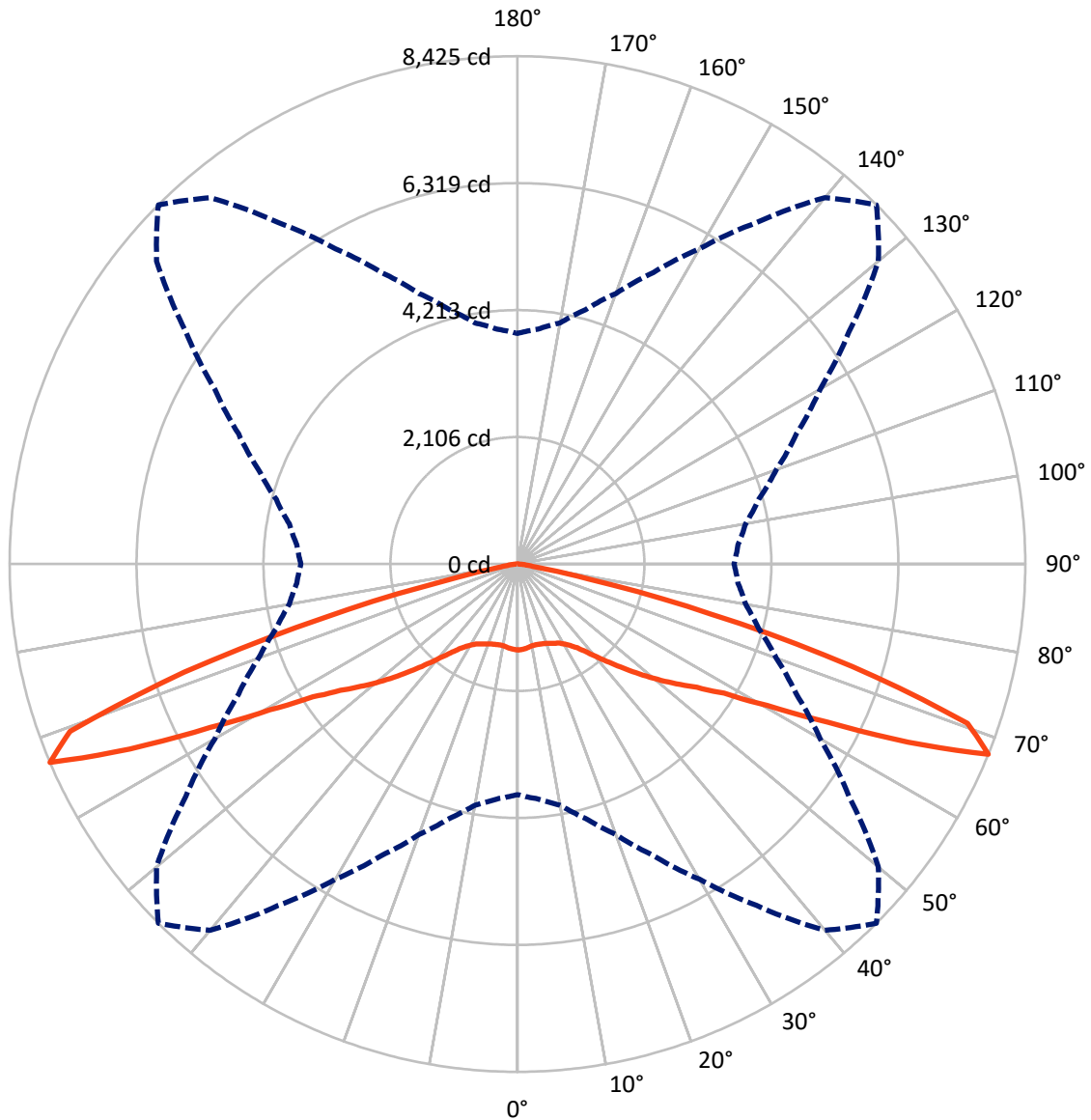


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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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	7157.5	0.0	7157.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7157.5	0.0	7157.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14315.0	0.0	14315.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	0.9
10°-20°	387.4	2.7
20°-30°	658.6	4.6
30°-40°	1076.7	7.5
40°-50°	1922.1	13.4
50°-60°	3240.7	22.6
60°-70°	5029.1	35.1
70°-80°	1767.0	12.3
80°-90°	99.9	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°	14315.0	100.0
0°-180°	14315.0	100.0



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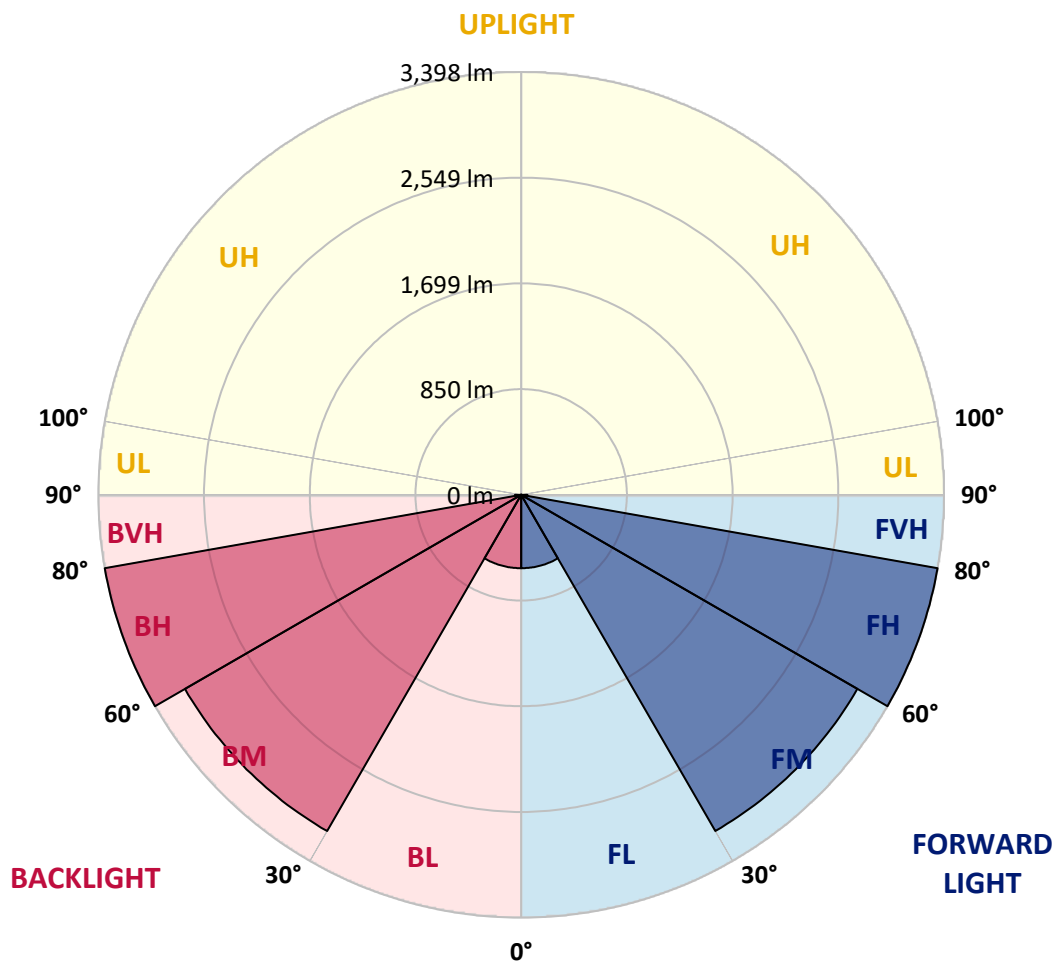
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.8	4.1			
FM	(30°-60°)	3119.7	21.8			
FH	(60°-80°)	3398.0	23.7			G2/5000
FVH	(80°-90°)	49.9	0.3			G1/100
BL	(0°-30°)	589.8	4.1	B2/1000		
BM	(30°-60°)	3119.7	21.8	B3/5000		
BH	(60°-80°)	3398.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	49.9	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°	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6
2.5°	1421.3	1422.6	1422.6	1422.6	1421.9	1421.9	1420.6	1421.9	1421.3	1419.3	1420.0
5°	1409.4	1410.8	1410.8	1410.1	1412.1	1411.4	1409.4	1410.8	1410.1	1408.8	1409.4
7.5°	1392.3	1394.3	1394.3	1393.6	1395.6	1395.0	1393.6	1394.3	1394.3	1392.3	1392.3
10°	1373.2	1374.5	1374.5	1373.9	1377.2	1377.2	1376.5	1378.5	1379.2	1377.2	1375.9
12.5°	1355.5	1357.4	1357.4	1360.1	1363.4	1364.7	1368.0	1370.6	1373.2	1372.6	1369.9
15°	1344.9	1346.2	1348.9	1352.2	1357.4	1362.0	1367.3	1373.2	1378.5	1379.8	1375.9
17.5°	1338.3	1340.3	1344.3	1348.9	1356.1	1364.0	1371.9	1379.8	1387.1	1389.7	1385.1
20°	1336.4	1337.7	1341.6	1349.5	1359.4	1371.3	1382.4	1391.7	1401.5	1404.8	1401.5
22.5°	1340.3	1342.9	1347.6	1356.8	1369.9	1385.1	1398.2	1410.8	1423.3	1429.2	1424.6
25°	1358.1	1360.7	1366.6	1378.5	1393.0	1408.8	1423.9	1438.4	1449.6	1455.5	1452.2
27.5°	1391.0	1394.3	1401.5	1413.4	1429.2	1446.3	1462.8	1474.6	1483.8	1485.8	1481.8
30°	1440.4	1447.6	1456.2	1469.3	1487.8	1502.3	1518.7	1529.2	1540.4	1540.4	1537.1
32.5°	1517.4	1524.6	1533.9	1546.4	1560.8	1576.6	1591.1	1600.3	1612.2	1612.9	1605.0
35°	1632.6	1635.9	1643.8	1651.7	1664.9	1678.7	1691.2	1697.1	1707.0	1707.6	1700.4
37.5°	1784.7	1785.3	1790.6	1793.2	1805.1	1820.2	1832.1	1836.0	1845.2	1843.9	1836.7
40°	1961.8	1965.0	1967.0	1971.0	1983.5	1998.0	2010.5	2012.4	2022.3	2020.3	2011.1
42.5°	2166.5	2167.8	2179.0	2184.9	2196.8	2204.0	2219.8	2221.8	2233.6	2228.4	2217.8
45°	2396.2	2408.1	2418.6	2430.5	2443.0	2451.5	2464.0	2461.4	2469.3	2461.4	2455.5
47.5°	2637.8	2646.4	2670.1	2688.5	2708.9	2716.2	2733.9	2726.0	2733.9	2722.8	2720.8
50°	2903.8	2918.9	2939.3	2960.4	2982.1	2994.0	3017.0	3007.1	3017.7	3007.1	3001.2
52.5°	3165.8	3169.7	3214.5	3245.5	3275.7	3289.6	3303.4	3298.8	3299.4	3298.8	3292.8
55°	3414.6	3423.9	3468.6	3510.7	3563.4	3602.3	3626.0	3623.3	3617.4	3611.5	3601.6
57.5°	3695.1	3704.3	3755.6	3807.6	3867.6	3922.8	3970.9	4020.3	4039.4	4044.6	4022.9
60°	4074.3	4073.6	4142.1	4205.3	4290.8	4373.1	4478.5	4585.8	4708.9	4766.1	4690.4
62.5°	4460.0	4475.8	4574.6	4686.5	4862.9	5034.7	5228.9	5419.8	5614.7	5773.3	5604.8
65°	4413.9	4474.5	4621.3	4874.8	5200.6	5587.7	6006.4	6449.4	6849.7	7124.9	6816.1
67.5°	3825.4	3911.7	4061.1	4369.2	4776.7	5334.9	6038.0	6914.2	7932.6	8425.0	7814.8
70°	2772.8	2870.2	3026.9	3327.7	3731.3	4261.9	5025.5	6077.5	7425.7	7922.1	7249.9
72.5°	1379.8	1432.5	1529.2	1720.8	2026.3	2456.8	3149.3	4160.5	5353.3	5808.9	5194.7
75°	468.7	493.1	509.5	572.1	668.8	838.0	1182.3	1818.9	2774.8	3326.4	2735.3
77.5°	270.6	271.2	282.4	293.6	310.1	328.5	374.6	491.8	850.5	1208.0	880.2
80°	175.1	174.5	183.7	192.2	203.4	212.6	215.3	227.8	262.7	311.4	278.5
82.5°	90.8	102.0	122.4	133.6	154.7	158.7	153.4	148.8	157.3	163.3	167.2
85°	50.0	43.4	65.2	84.3	93.5	94.8	94.8	89.5	92.8	90.8	98.7
87.5°	23.0	21.1	25.7	41.5	44.1	37.5	39.5	34.9	25.0	24.4	27.6
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°	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6	1426.6
2.5°	1420.0	1420.6	1420.6	1422.6	1423.3	1424.6	1425.9	1426.6
5°	1408.8	1410.8	1409.4	1411.4	1411.4	1412.7	1412.7	1413.4
7.5°	1392.3	1394.3	1394.3	1394.3	1393.6	1395.6	1395.6	1395.6
10°	1375.2	1376.5	1375.9	1374.5	1373.2	1375.2	1374.5	1373.9
12.5°	1369.9	1366.6	1364.0	1362.7	1360.1	1360.7	1358.7	1358.7
15°	1373.2	1367.3	1362.7	1360.7	1358.1	1356.8	1355.5	1356.1
17.5°	1381.8	1374.5	1368.6	1365.3	1362.0	1360.1	1357.4	1358.1
20°	1396.9	1388.4	1379.8	1373.2	1367.3	1364.0	1362.0	1361.4
22.5°	1419.3	1406.8	1394.3	1384.4	1376.5	1371.9	1369.9	1368.6
25°	1445.0	1431.2	1416.7	1405.5	1397.6	1391.7	1387.7	1387.7
27.5°	1477.2	1466.0	1452.9	1439.7	1432.5	1426.6	1423.9	1422.6
30°	1531.2	1520.7	1510.2	1497.6	1488.4	1482.5	1477.9	1473.9
32.5°	1600.3	1591.8	1583.2	1574.0	1565.5	1557.6	1550.3	1547.0
35°	1697.8	1691.2	1685.3	1674.7	1671.4	1666.8	1662.9	1659.6
37.5°	1832.1	1829.4	1829.4	1818.2	1815.6	1813.6	1809.7	1810.3
40°	2008.5	2011.1	2007.8	2003.9	2001.9	1996.6	1996.6	2001.3
42.5°	2217.2	2219.2	2226.4	2219.8	2227.1	2220.5	2216.5	2219.8
45°	2459.4	2466.7	2481.2	2474.6	2479.2	2468.0	2454.2	2454.8
47.5°	2731.3	2737.9	2743.8	2739.2	2739.9	2721.4	2703.0	2698.4
50°	3013.7	3016.4	3019.7	3013.1	3014.4	2994.0	2972.9	2973.6
52.5°	3292.8	3305.4	3318.5	3300.7	3296.8	3273.8	3244.1	3232.3
55°	3612.1	3629.9	3614.8	3583.8	3552.9	3521.9	3483.1	3476.5
57.5°	4005.8	3975.5	3928.1	3869.5	3826.7	3783.3	3743.8	3727.3
60°	4553.5	4439.6	4354.0	4267.1	4212.5	4159.2	4107.2	4099.3
62.5°	5327.7	5130.8	4960.3	4780.6	4633.8	4519.3	4427.8	4402.1
65°	6298.0	5832.6	5429.1	5052.5	4725.3	4478.5	4323.1	4254.6
67.5°	6715.4	5796.4	5104.5	4570.0	4142.1	3843.2	3675.3	3591.7
70°	5901.1	4807.0	4054.5	3519.3	3129.6	2811.0	2658.9	2569.4
72.5°	4059.8	3057.8	2418.0	1973.6	1662.2	1395.6	1290.3	1282.4
75°	1822.9	1207.3	832.1	641.2	539.8	469.4	447.6	431.2
77.5°	510.2	377.2	336.4	314.7	293.6	269.2	260.0	262.0
80°	248.2	234.4	225.1	211.3	192.2	171.8	162.6	166.6
82.5°	164.6	162.6	168.5	158.7	131.0	111.3	93.5	85.6
85°	100.1	101.4	103.4	104.0	88.2	61.9	42.1	47.4
87.5°	39.5	45.4	49.4	51.3	48.1	29.6	23.7	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)