

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: P193422

Luminaire Tested: **GAN-AF-04-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193422
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 16674 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

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

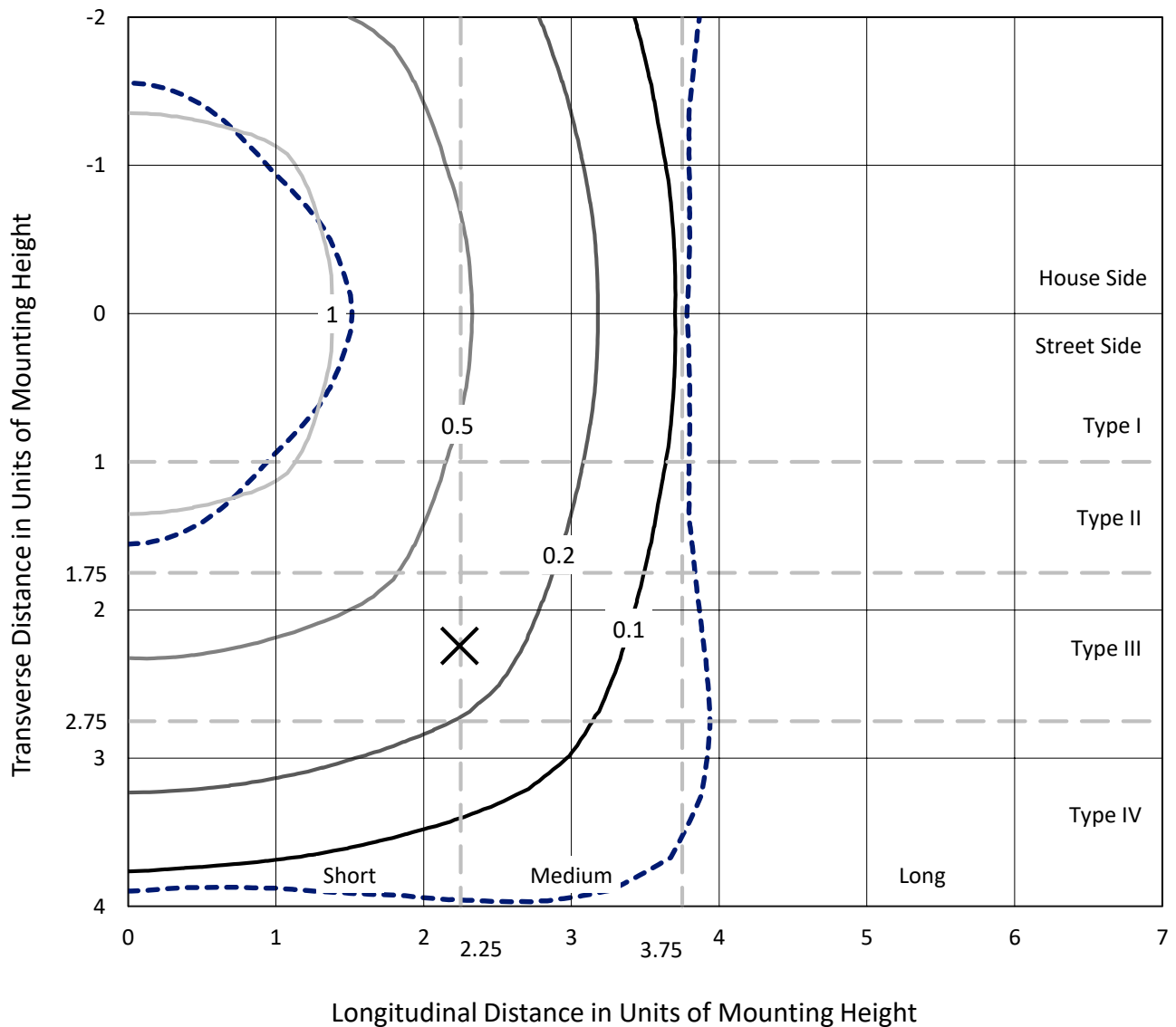


REPORT NUMBER: P193422

CATALOG NUMBER: GAN-AF-04-LED-U-5WQ-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

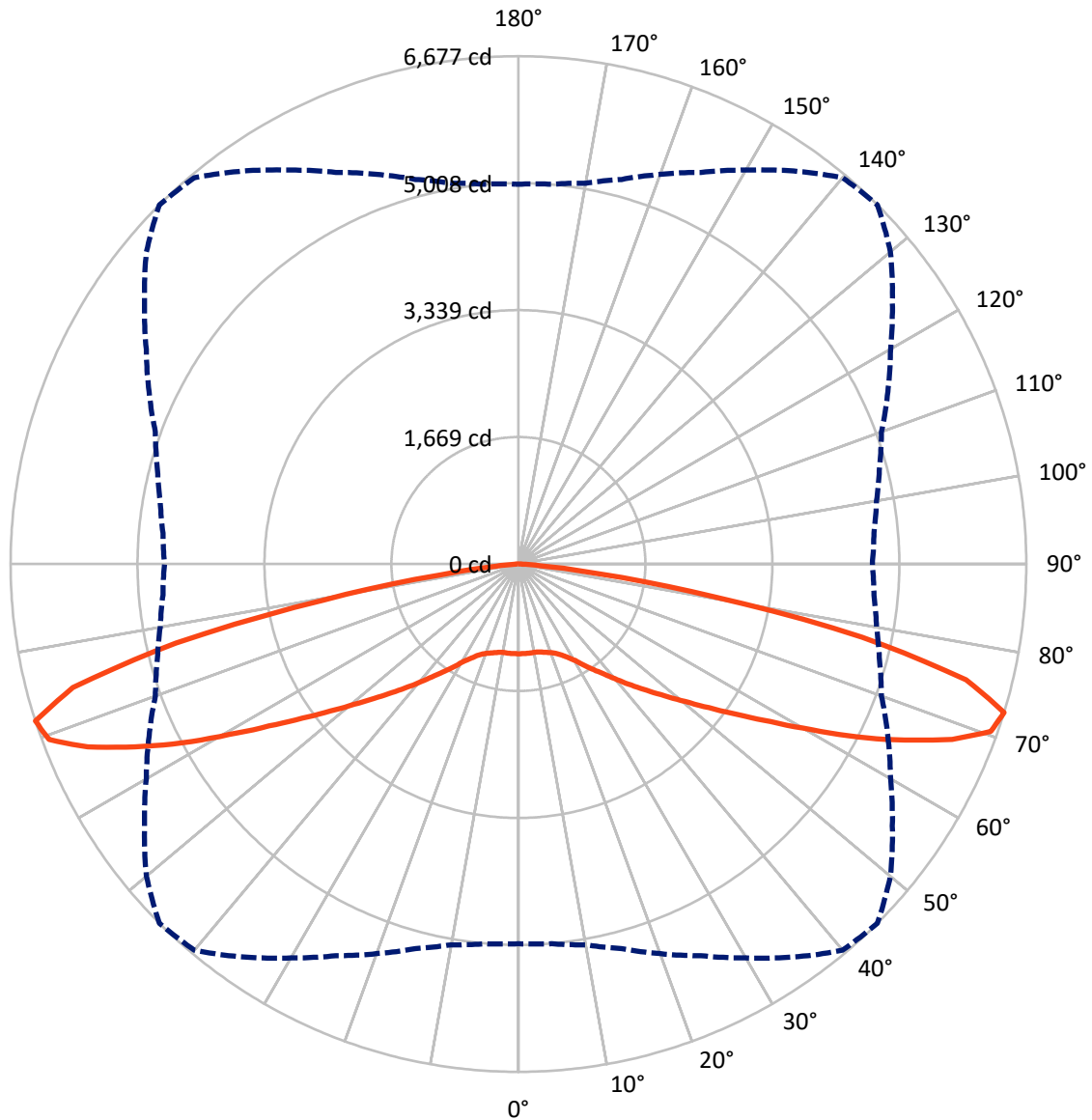


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P193422

CATALOG NUMBER: GAN-AF-04-LED-U-5WQ-8030-800

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	8337.0	0.0	8337.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8337.0	0.0	8337.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16674.0	0.0	16674.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	0.7
10°-20°	342.4	2.1
20°-30°	625.8	3.8
30°-40°	1078.9	6.5
40°-50°	1844.4	11.1
50°-60°	2989.6	17.9
60°-70°	4959.6	29.7
70°-80°	4368.3	26.2
80°-90°	352.2	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°	16674.0	100.0
0°-180°	16674.0	100.0



REPORT NUMBER: P193422

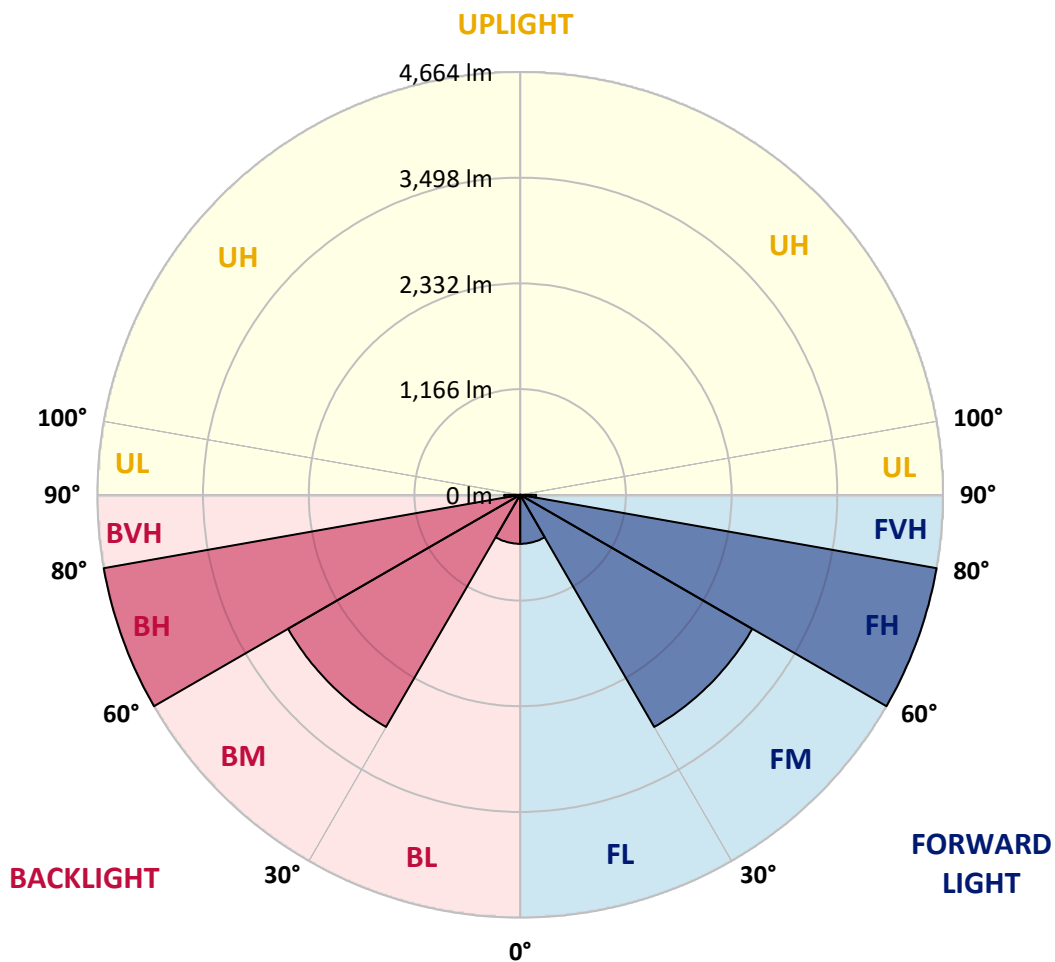
CATALOG NUMBER: GAN-AF-04-LED-U-5WQ-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.5	3.2			
FM	(30°-60°)	2956.5	17.7			
FH	(60°-80°)	4663.9	28.0			G2/5000
FVH	(80°-90°)	176.1	1.1			G2/225
BL	(0°-30°)	540.5	3.2	B2/1000		
BM	(30°-60°)	2956.5	17.7	B3/5000		
BH	(60°-80°)	4663.9	28.0	B4/5000		G2/5000
BVH	(80°-90°)	176.1	1.1			G2/225
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





REPORT NUMBER: P193422

CATALOG NUMBER: GAN-AF-04-LED-U-5WQ-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8
2.5°	1180.8	1181.5	1182.3	1181.5	1181.5	1180.8	1180.0	1180.8	1180.0	1178.5	1179.2
5°	1184.6	1186.1	1186.1	1184.6	1185.4	1184.6	1183.1	1183.8	1182.3	1180.0	1180.0
7.5°	1189.2	1190.0	1190.0	1188.4	1189.2	1187.7	1186.1	1185.4	1183.8	1180.8	1178.5
10°	1196.1	1196.8	1196.1	1194.5	1194.5	1192.2	1188.4	1186.9	1183.8	1179.2	1177.0
12.5°	1203.7	1204.5	1203.7	1202.2	1201.4	1197.6	1194.5	1192.2	1190.0	1186.1	1182.3
15°	1214.4	1216.0	1214.4	1211.4	1209.1	1206.0	1204.5	1205.3	1206.0	1203.0	1199.1
17.5°	1234.3	1235.1	1232.8	1225.9	1222.8	1219.8	1219.8	1221.3	1223.6	1222.1	1218.3
20°	1271.0	1268.7	1263.4	1255.0	1251.1	1245.8	1245.0	1245.8	1245.8	1245.0	1242.0
22.5°	1316.9	1315.4	1308.5	1297.8	1292.4	1289.4	1284.8	1281.0	1280.2	1277.9	1274.8
25°	1372.0	1371.2	1362.8	1353.6	1349.8	1346.0	1342.1	1336.8	1332.2	1326.8	1323.8
27.5°	1442.3	1439.3	1427.0	1422.4	1417.1	1414.8	1409.4	1403.3	1399.5	1392.6	1388.8
30°	1519.6	1519.6	1509.6	1508.1	1508.1	1502.7	1496.6	1485.9	1479.0	1472.1	1469.9
32.5°	1596.8	1597.6	1587.6	1590.7	1593.0	1596.8	1598.3	1594.5	1589.9	1589.2	1584.6
35°	1708.5	1705.4	1695.5	1697.8	1697.0	1696.2	1696.2	1704.6	1706.2	1707.7	1698.5
37.5°	1846.9	1846.9	1836.9	1836.9	1832.3	1827.8	1821.6	1827.0	1835.4	1837.7	1831.6
40°	2005.2	2010.5	1998.3	1997.5	1999.1	1984.5	1977.7	1986.1	1991.4	2000.6	1993.7
42.5°	2191.8	2188.0	2175.7	2174.2	2165.8	2161.2	2155.1	2162.0	2170.4	2176.5	2178.8
45°	2370.7	2367.7	2353.9	2353.9	2345.5	2341.7	2344.7	2356.2	2360.0	2368.4	2376.9
47.5°	2547.4	2543.6	2534.4	2538.2	2539.0	2545.9	2555.8	2566.5	2577.2	2588.7	2592.5
50°	2727.9	2728.6	2718.7	2727.9	2739.3	2758.5	2785.2	2802.8	2825.0	2839.5	2844.1
52.5°	2892.3	2895.4	2906.1	2927.5	2950.4	2987.9	3033.8	3076.6	3113.3	3137.8	3136.3
55°	3089.6	3094.2	3120.2	3156.9	3194.4	3251.0	3319.0	3394.7	3455.9	3491.1	3468.9
57.5°	3342.0	3351.9	3381.0	3430.7	3486.5	3559.9	3653.2	3767.2	3862.0	3909.4	3873.5
60°	3688.4	3694.5	3729.7	3784.8	3852.1	3943.1	4067.7	4220.7	4354.5	4417.2	4375.9
62.5°	4145.0	4156.4	4184.7	4240.6	4309.4	4412.6	4564.8	4756.0	4922.7	5009.9	4916.6
65°	4690.2	4726.9	4750.6	4807.2	4871.5	4980.8	5139.9	5344.9	5523.8	5581.2	5473.3
67.5°	5230.1	5262.3	5303.6	5368.6	5433.6	5556.7	5704.3	5903.1	6099.7	6151.7	5984.2
70°	5466.5	5484.8	5549.0	5637.8	5762.4	5907.7	6078.3	6301.6	6544.8	6587.6	6375.0
72.5°	4993.1	5011.4	5083.3	5234.0	5451.2	5682.1	5979.6	6307.7	6628.9	6677.1	6384.2
75°	3776.3	3746.5	3852.8	4052.4	4345.3	4667.3	5083.3	5553.6	6017.8	6078.3	5728.8
77.5°	1951.6	1947.8	2028.1	2275.9	2625.4	2991.7	3449.8	3981.3	4435.6	4619.1	4334.6
80°	549.9	556.0	594.2	717.3	921.5	1186.1	1544.0	2041.9	2413.6	2603.2	2444.1
82.5°	215.7	232.5	247.0	270.0	296.7	335.7	448.1	666.9	894.8	1069.1	875.6
85°	77.2	82.6	117.0	138.4	140.7	148.4	169.0	197.3	237.8	283.7	233.2
87.5°	29.1	32.1	37.5	61.9	61.2	55.8	68.1	71.1	53.5	48.9	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193422

CATALOG NUMBER: GAN-AF-04-LED-U-5WQ-8030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8	1180.8
2.5°	1177.7	1178.5	1178.5	1179.2	1180.0	1180.0	1181.5	1181.5
5°	1178.5	1178.5	1177.0	1177.7	1177.0	1177.0	1177.7	1177.7
7.5°	1177.0	1176.2	1174.7	1173.9	1172.4	1172.4	1172.4	1172.4
10°	1174.7	1173.9	1172.4	1171.6	1170.8	1170.8	1170.8	1170.8
12.5°	1180.8	1178.5	1177.0	1176.2	1176.2	1176.2	1176.2	1176.2
15°	1196.8	1191.5	1187.7	1187.7	1188.4	1190.0	1190.0	1191.5
17.5°	1216.7	1210.6	1206.8	1203.7	1205.3	1207.5	1209.1	1210.6
20°	1240.4	1237.4	1232.0	1229.0	1229.0	1232.0	1233.5	1234.3
22.5°	1273.3	1271.0	1268.7	1264.9	1264.9	1266.4	1269.5	1269.5
25°	1322.3	1320.7	1319.2	1316.1	1315.4	1315.4	1316.9	1318.4
27.5°	1383.4	1384.2	1382.7	1381.9	1379.6	1378.8	1381.1	1380.4
30°	1465.3	1469.1	1472.9	1469.9	1466.0	1463.7	1461.4	1458.4
32.5°	1576.2	1571.6	1568.5	1563.2	1556.3	1550.2	1545.6	1540.2
35°	1680.9	1673.3	1670.2	1674.8	1674.0	1670.2	1664.9	1660.3
37.5°	1809.4	1807.9	1809.4	1817.8	1816.3	1820.1	1809.4	1808.6
40°	1971.5	1973.1	1983.8	1993.7	1999.1	2004.4	1998.3	1992.2
42.5°	2159.7	2158.9	2162.7	2176.5	2185.7	2191.8	2178.8	2177.3
45°	2358.5	2353.1	2356.2	2367.7	2376.9	2383.7	2369.2	2369.2
47.5°	2577.2	2568.0	2558.1	2571.1	2576.5	2581.0	2569.6	2565.7
50°	2821.2	2802.1	2780.6	2786.0	2786.0	2784.5	2769.9	2769.2
52.5°	3101.1	3065.9	3026.9	3012.4	3003.9	2994.8	2969.5	2957.3
55°	3423.0	3370.3	3309.1	3271.6	3251.7	3226.5	3184.4	3173.0
57.5°	3799.3	3716.7	3611.2	3565.3	3520.9	3479.6	3433.0	3420.0
60°	4245.1	4123.5	3983.6	3898.7	3850.5	3810.8	3762.6	3760.3
62.5°	4742.2	4550.3	4392.0	4315.5	4280.3	4245.1	4199.3	4205.4
65°	5247.7	5047.4	4899.0	4837.1	4804.2	4775.1	4729.2	4736.1
67.5°	5746.4	5562.0	5399.2	5335.7	5299.0	5262.3	5221.0	5227.8
70°	6104.3	5875.6	5692.1	5551.3	5463.4	5364.0	5299.7	5283.7
72.5°	6001.8	5649.2	5357.9	5078.7	4915.1	4782.0	4691.8	4652.8
75°	5194.2	4712.4	4337.7	3995.1	3802.4	3645.6	3531.6	3460.5
77.5°	3857.4	3316.0	2873.2	2478.6	2166.5	1957.0	1809.4	1713.8
80°	2111.5	1606.0	1173.9	825.2	606.4	504.0	445.1	416.8
82.5°	657.7	424.4	312.8	270.0	250.8	240.1	222.5	194.2
85°	209.5	183.5	170.5	162.9	155.2	135.4	93.3	84.9
87.5°	81.1	83.4	82.6	78.0	79.5	57.4	45.9	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)