

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: P200546

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200546
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-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 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: 11681 lumens
Efficiency: N/A
Efficacy: 90.6 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

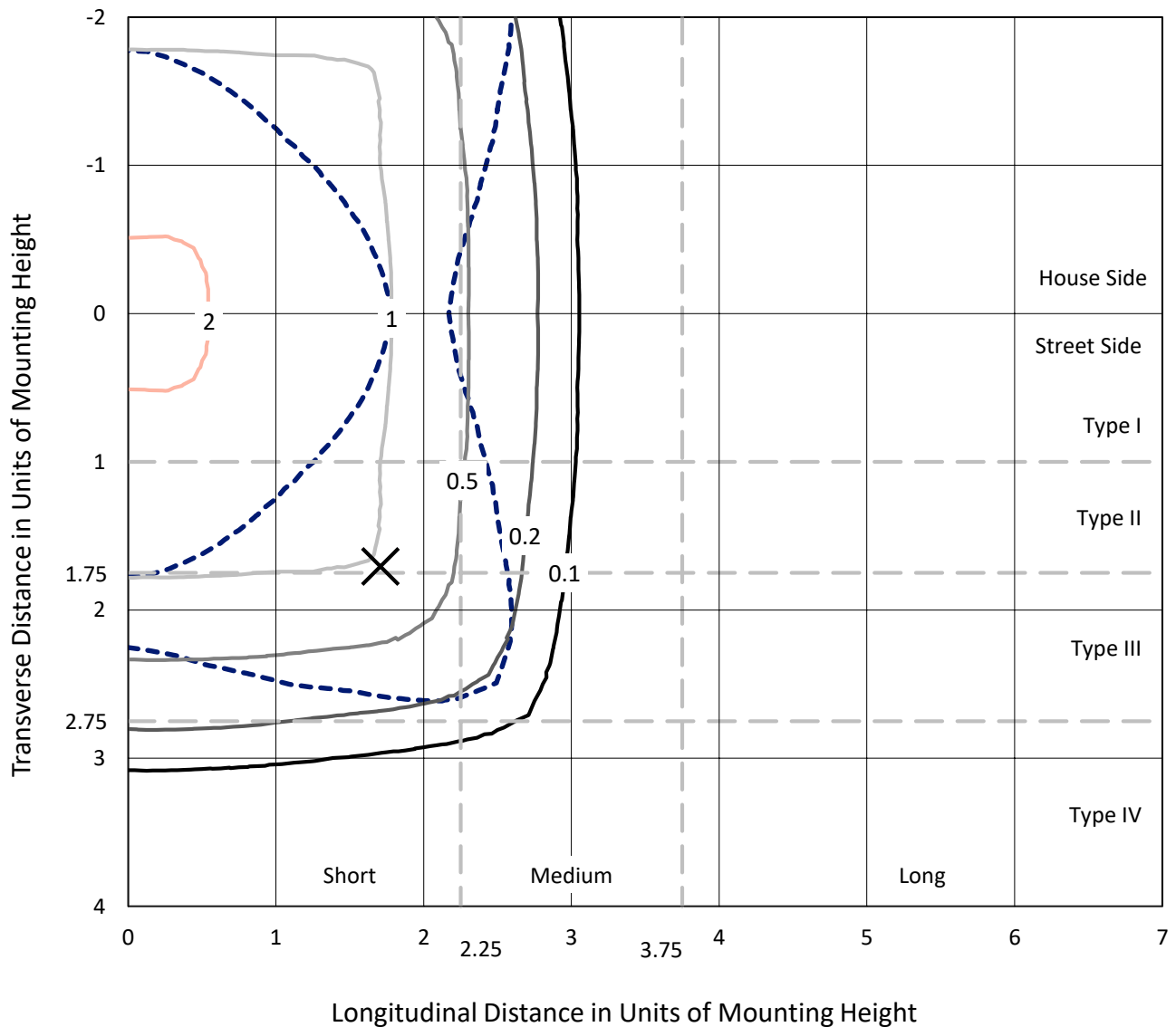


REPORT NUMBER: P200546

CATALOG NUMBER: GAP-AF-02-LED-U-5MQ-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

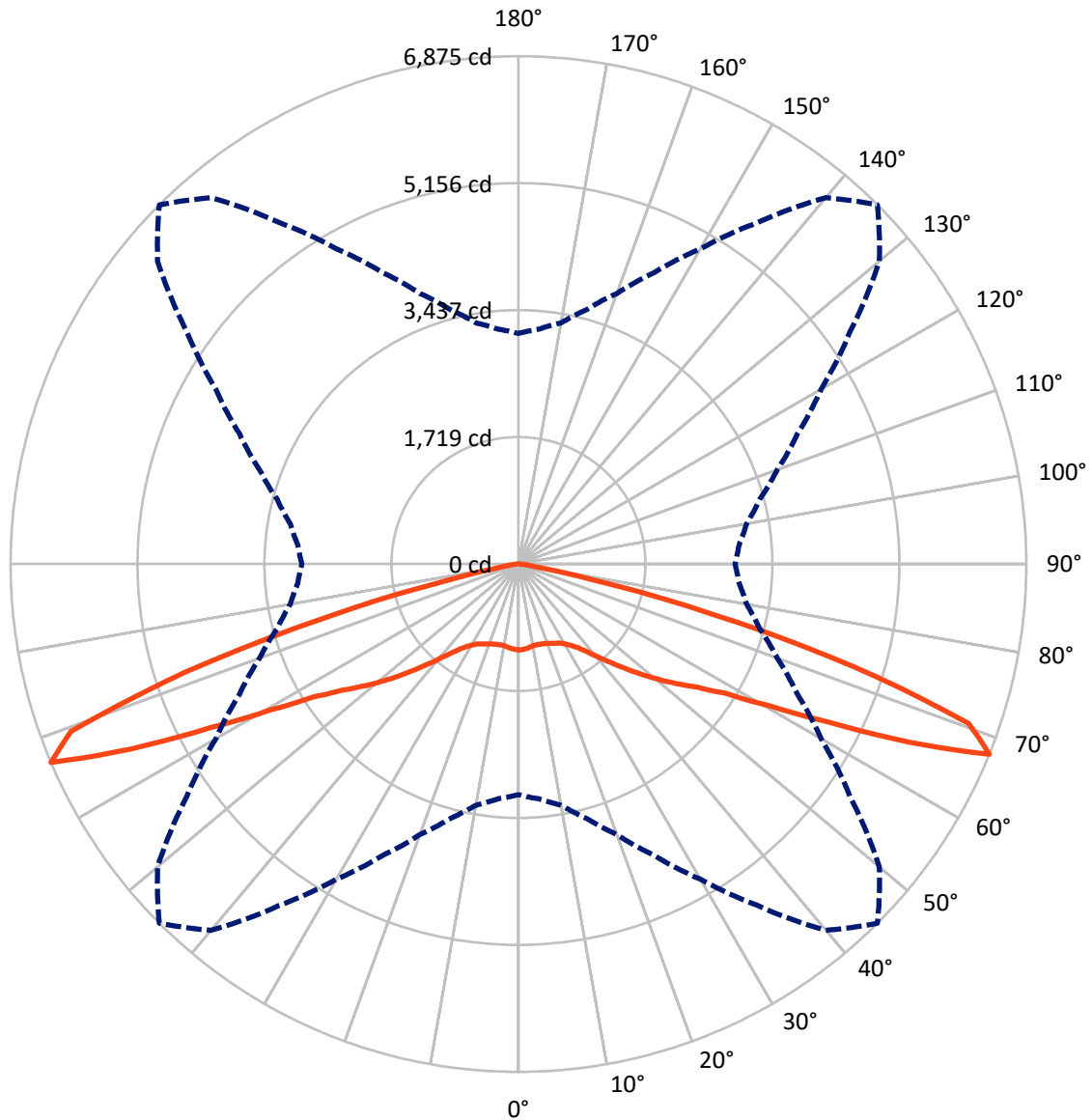


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P200546

CATALOG NUMBER: GAP-AF-02-LED-U-5MQ-8030-1200

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	5840.5	0.0	5840.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5840.5	0.0	5840.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11681.0	0.0	11681.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	0.9
10°-20°	316.2	2.7
20°-30°	537.5	4.6
30°-40°	878.6	7.5
40°-50°	1568.4	13.4
50°-60°	2644.4	22.6
60°-70°	4103.7	35.1
70°-80°	1441.9	12.3
80°-90°	81.5	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°	11681.0	100.0
0°-180°	11681.0	100.0



REPORT NUMBER: P200546

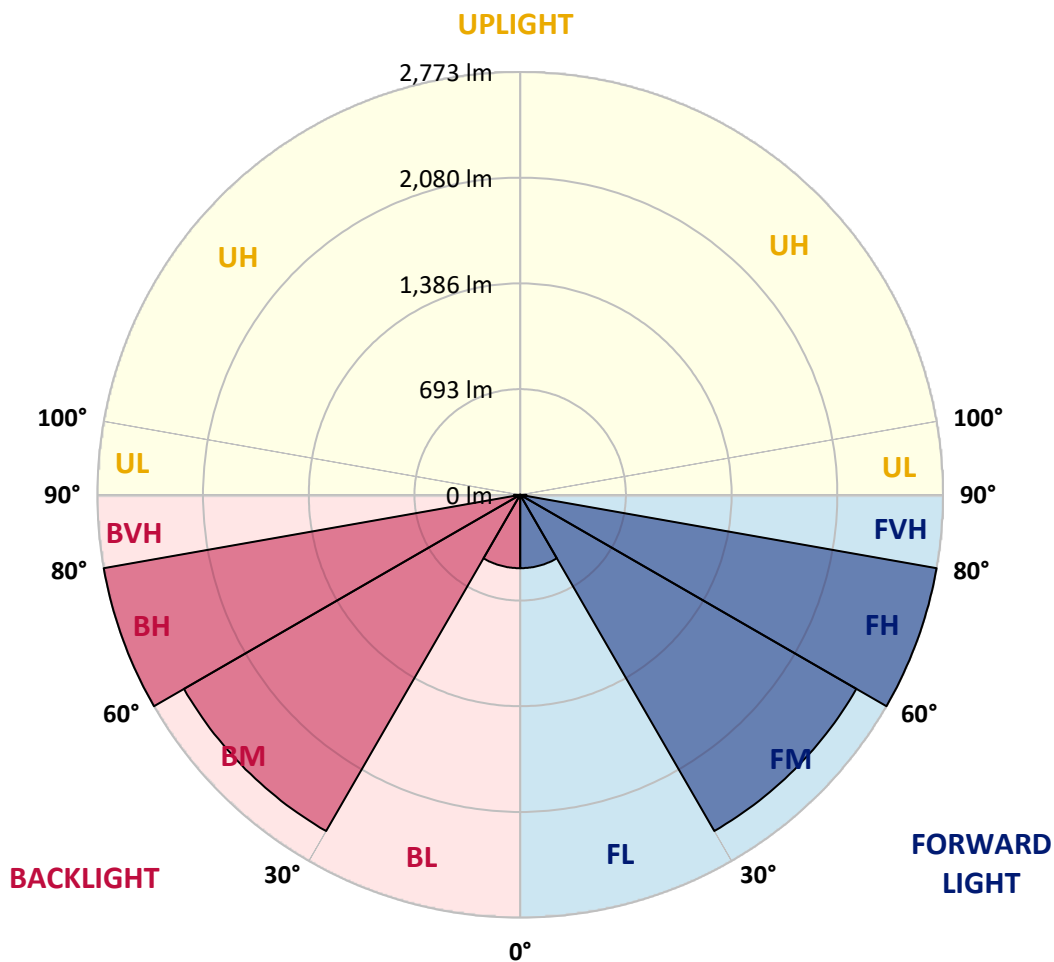
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.3	4.1			
FM	(30°-60°)	2545.7	21.8			
FH	(60°-80°)	2772.8	23.7			G2/5000
FVH	(80°-90°)	40.7	0.3			G1/100
BL	(0°-30°)	481.3	4.1	B1/500		
BM	(30°-60°)	2545.7	21.8	B3/5000		
BH	(60°-80°)	2772.8	23.7	B4/5000		G2/5000
BVH	(80°-90°)	40.7	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





REPORT NUMBER: P200546

CATALOG NUMBER: GAP-AF-02-LED-U-5MQ-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1159.8	1160.8	1160.8	1160.8	1160.3	1160.3	1159.2	1160.3	1159.8	1158.2	1158.7
5°	1150.1	1151.2	1151.2	1150.6	1152.2	1151.7	1150.1	1151.2	1150.6	1149.6	1150.1
7.5°	1136.1	1137.7	1137.7	1137.2	1138.8	1138.3	1137.2	1137.7	1137.7	1136.1	1136.1
10°	1120.5	1121.6	1121.6	1121.1	1123.8	1123.8	1123.2	1124.8	1125.4	1123.8	1122.7
12.5°	1106.0	1107.7	1107.7	1109.8	1112.5	1113.6	1116.3	1118.4	1120.5	1120.0	1117.9
15°	1097.5	1098.5	1100.7	1103.4	1107.7	1111.4	1115.7	1120.5	1124.8	1125.9	1122.7
17.5°	1092.1	1093.7	1096.9	1100.7	1106.6	1113.0	1119.5	1125.9	1131.8	1134.0	1130.2
20°	1090.5	1091.5	1094.8	1101.2	1109.3	1118.9	1128.1	1135.6	1143.6	1146.3	1143.6
22.5°	1093.7	1095.8	1099.6	1107.1	1117.9	1130.2	1141.0	1151.2	1161.4	1166.2	1162.4
25°	1108.2	1110.3	1115.2	1124.8	1136.7	1149.6	1161.9	1173.7	1182.9	1187.7	1185.0
27.5°	1135.1	1137.7	1143.6	1153.3	1166.2	1180.2	1193.6	1203.3	1210.8	1212.4	1209.2
30°	1175.3	1181.3	1188.2	1199.0	1214.0	1225.8	1239.3	1247.9	1257.0	1257.0	1254.3
32.5°	1238.2	1244.1	1251.6	1261.8	1273.6	1286.5	1298.4	1305.9	1315.5	1316.1	1309.6
35°	1332.2	1334.9	1341.3	1347.8	1358.5	1369.8	1380.0	1384.8	1392.9	1393.4	1387.5
37.5°	1456.3	1456.8	1461.1	1463.3	1472.9	1485.3	1495.0	1498.2	1505.7	1504.6	1498.7
40°	1600.8	1603.5	1605.1	1608.3	1618.5	1630.3	1640.5	1642.1	1650.2	1648.6	1641.1
42.5°	1767.8	1768.9	1778.1	1782.9	1792.6	1798.5	1811.4	1813.0	1822.6	1818.3	1809.7
45°	1955.3	1965.0	1973.6	1983.3	1993.5	2000.4	2010.7	2008.5	2014.9	2008.5	2003.7
47.5°	2152.5	2159.4	2178.8	2193.8	2210.5	2216.4	2230.9	2224.4	2230.9	2221.8	2220.1
50°	2369.5	2381.8	2398.5	2415.7	2433.4	2443.1	2461.9	2453.8	2462.4	2453.8	2449.0
52.5°	2583.3	2586.5	2623.0	2648.3	2673.0	2684.3	2695.6	2691.8	2692.3	2691.8	2687.0
55°	2786.3	2793.9	2830.4	2864.8	2907.7	2939.4	2958.8	2956.6	2951.8	2946.9	2938.9
57.5°	3015.2	3022.7	3064.6	3107.0	3155.9	3201.0	3240.2	3280.5	3296.1	3300.4	3282.7
60°	3324.6	3324.0	3379.9	3431.5	3501.3	3568.5	3654.4	3742.0	3842.4	3889.2	3827.4
62.5°	3639.4	3652.3	3732.8	3824.2	3968.1	4108.3	4266.8	4422.6	4581.6	4711.0	4573.5
65°	3601.8	3651.2	3771.0	3977.8	4243.7	4559.6	4901.2	5262.7	5589.3	5813.9	5561.9
67.5°	3121.5	3191.9	3313.8	3565.2	3897.8	4353.3	4927.0	5642.0	6473.0	6874.8	6376.8
70°	2262.6	2342.1	2469.9	2715.4	3044.7	3477.7	4100.8	4959.2	6059.3	6464.4	5915.9
72.5°	1125.9	1168.9	1247.9	1404.2	1653.4	2004.7	2569.9	3395.0	4368.3	4740.0	4238.9
75°	382.5	402.3	415.8	466.8	545.8	683.8	964.8	1484.2	2264.2	2714.4	2232.0
77.5°	220.8	221.3	230.4	239.6	253.0	268.1	305.7	401.3	694.0	985.7	718.2
80°	142.9	142.4	149.9	156.9	166.0	173.5	175.7	185.9	214.3	254.1	227.2
82.5°	74.1	83.3	99.9	109.0	126.2	129.5	125.2	121.4	128.4	133.2	136.4
85°	40.8	35.5	53.2	68.8	76.3	77.4	77.4	73.1	75.7	74.1	80.6
87.5°	18.8	17.2	20.9	33.8	36.0	30.6	32.2	28.5	20.4	19.9	22.6
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: P200546

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1158.7	1159.2	1159.2	1160.8	1161.4	1162.4	1163.5	1164.1
5°	1149.6	1151.2	1150.1	1151.7	1151.7	1152.8	1152.8	1153.3
7.5°	1136.1	1137.7	1137.7	1137.7	1137.2	1138.8	1138.8	1138.8
10°	1122.2	1123.2	1122.7	1121.6	1120.5	1122.2	1121.6	1121.1
12.5°	1117.9	1115.2	1113.0	1112.0	1109.8	1110.3	1108.7	1108.7
15°	1120.5	1115.7	1112.0	1110.3	1108.2	1107.1	1106.0	1106.6
17.5°	1127.5	1121.6	1116.8	1114.1	1111.4	1109.8	1107.7	1108.2
20°	1139.9	1132.9	1125.9	1120.5	1115.7	1113.0	1111.4	1110.9
22.5°	1158.2	1147.9	1137.7	1129.7	1123.2	1119.5	1117.9	1116.8
25°	1179.1	1167.8	1156.0	1146.9	1140.4	1135.6	1132.4	1132.4
27.5°	1205.4	1196.3	1185.5	1174.8	1168.9	1164.1	1161.9	1160.8
30°	1249.5	1240.9	1232.3	1222.1	1214.6	1209.7	1206.0	1202.7
32.5°	1305.9	1298.9	1291.9	1284.4	1277.4	1271.0	1265.1	1262.4
35°	1385.4	1380.0	1375.2	1366.6	1363.9	1360.1	1356.9	1354.2
37.5°	1495.0	1492.8	1492.8	1483.7	1481.5	1479.9	1476.7	1477.2
40°	1638.9	1641.1	1638.4	1635.2	1633.6	1629.3	1629.3	1633.0
42.5°	1809.2	1810.8	1816.7	1811.4	1817.3	1811.9	1808.7	1811.4
45°	2006.9	2012.8	2024.6	2019.2	2023.0	2013.9	2002.6	2003.1
47.5°	2228.7	2234.1	2239.0	2235.2	2235.7	2220.7	2205.6	2201.9
50°	2459.2	2461.3	2464.0	2458.7	2459.7	2443.1	2425.9	2426.4
52.5°	2687.0	2697.2	2707.9	2693.4	2690.2	2671.4	2647.2	2637.5
55°	2947.5	2962.0	2949.6	2924.4	2899.1	2873.9	2842.2	2836.8
57.5°	3268.7	3244.0	3205.3	3157.5	3122.6	3087.2	3054.9	3041.5
60°	3715.6	3622.7	3552.9	3482.0	3437.4	3393.9	3351.4	3345.0
62.5°	4347.4	4186.8	4047.6	3901.0	3781.2	3687.7	3613.0	3592.1
65°	5139.2	4759.4	4430.1	4122.8	3855.9	3654.4	3527.6	3471.8
67.5°	5479.7	4729.8	4165.3	3729.1	3379.9	3136.0	2999.1	2930.8
70°	4815.2	3922.5	3308.5	2871.7	2553.7	2293.7	2169.7	2096.6
72.5°	3312.8	2495.2	1973.0	1610.5	1356.4	1138.8	1052.9	1046.4
75°	1487.4	985.2	679.0	523.2	440.5	383.0	365.3	351.9
77.5°	416.3	307.8	274.5	256.8	239.6	219.7	212.2	213.8
80°	202.5	191.2	183.7	172.4	156.9	140.2	132.7	135.9
82.5°	134.3	132.7	137.5	129.5	106.9	90.8	76.3	69.8
85°	81.7	82.7	84.3	84.9	72.0	50.5	34.4	38.7
87.5°	32.2	37.1	40.3	41.9	39.2	24.2	19.3	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)