

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: P200361

Luminaire Tested: **GAP-AF-01-LED-U-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-T3R-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7130 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): 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

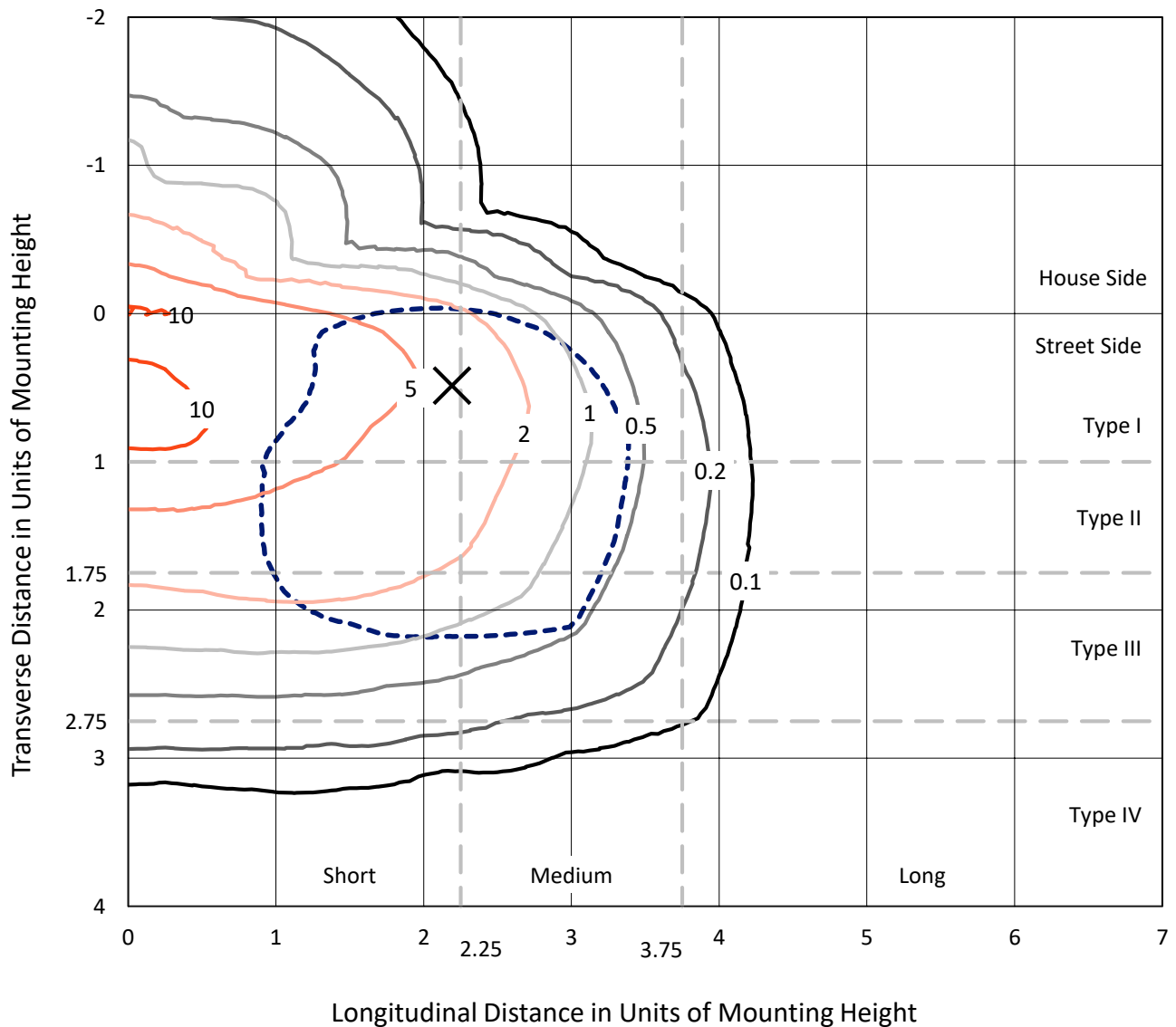


REPORT NUMBER: P200361

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

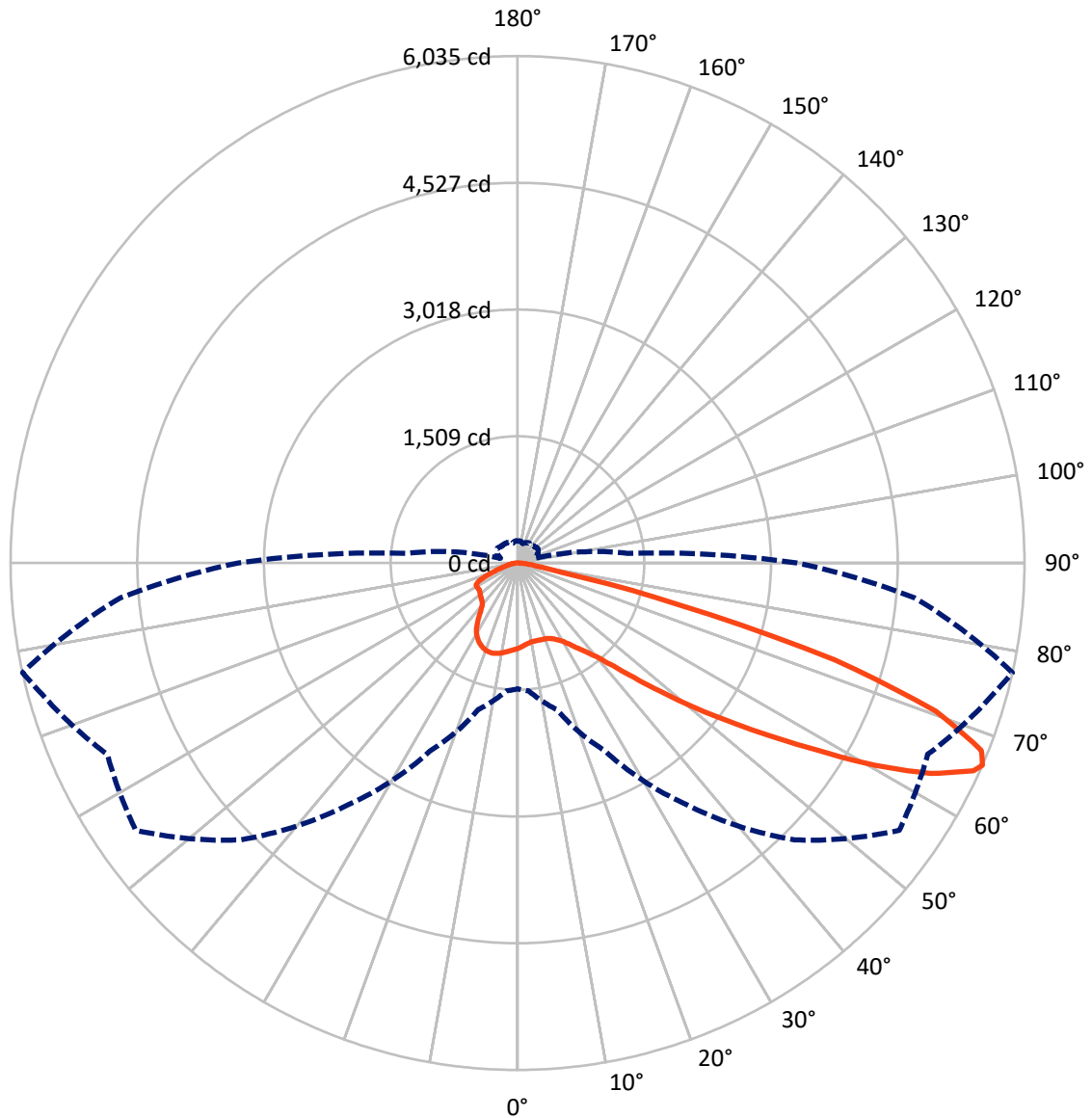


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200361

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.1	0.0	1218.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5911.9	0.0	5911.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	7130.0	0.0	7130.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	1.3
10°-20°	256.1	3.6
20°-30°	437.1	6.1
30°-40°	699.7	9.8
40°-50°	1080.9	15.2
50°-60°	1533.1	21.5
60°-70°	2050.9	28.8
70°-80°	890.7	12.5
80°-90°	90.8	1.3
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°	7130.0	100.0
0°-180°	7130.0	100.0



REPORT NUMBER: P200361

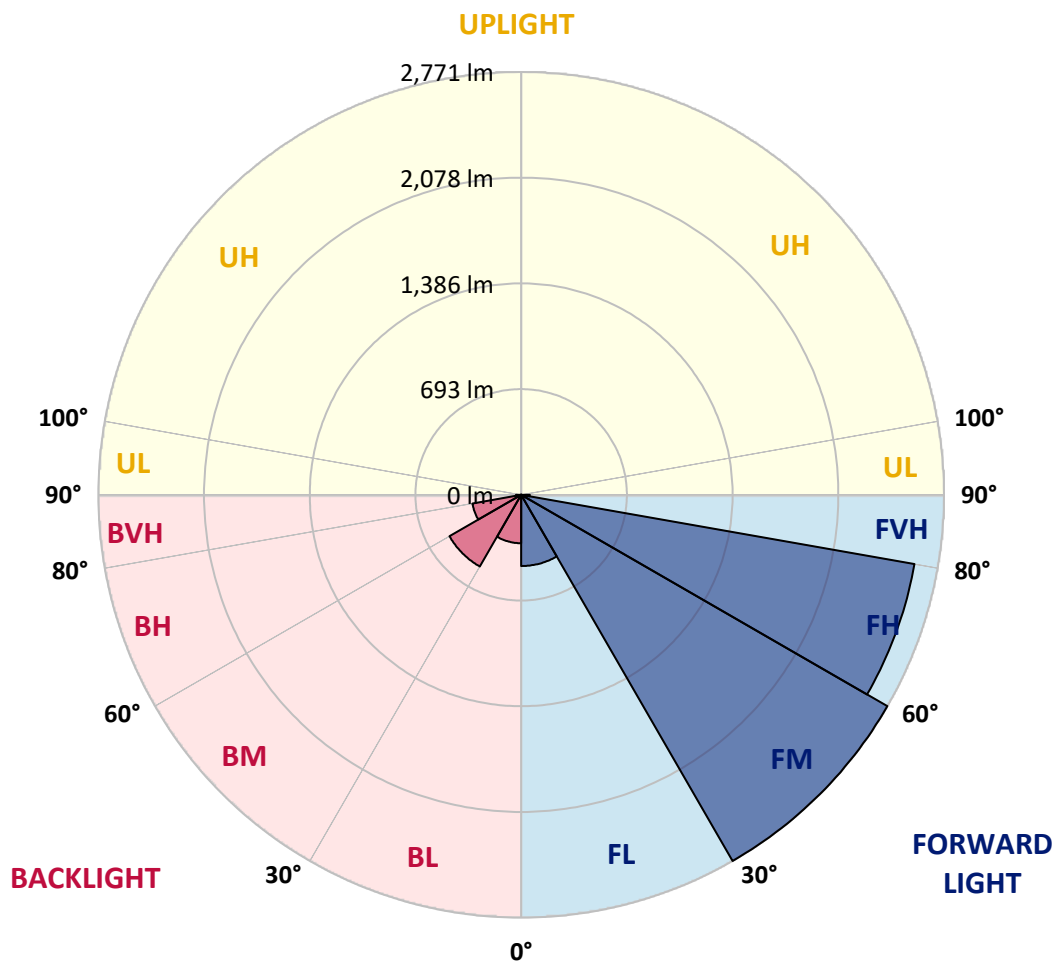
CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.7	6.5			
FM	(30°-60°)	2771.1	38.9			
FH	(60°-80°)	2617.1	36.7			G2/5000
FVH	(80°-90°)	57.0	0.8			G1/100
BL	(0°-30°)	317.2	4.4	B1/500		
BM	(30°-60°)	542.6	7.6	B1/1000		
BH	(60°-80°)	324.4	4.5	B1/500		G1/500
BVH	(80°-90°)	33.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P200361

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	898.8	904.9	909.9	914.7	924.1	939.6	957.4	971.9	992.8	996.9	1008.0
5°	816.3	816.3	820.3	827.4	840.2	863.4	887.7	920.0	965.5	976.3	1006.0
7.5°	776.2	776.5	778.9	785.0	796.1	817.3	843.9	882.0	943.6	961.5	1012.0
10°	791.0	787.6	782.6	779.6	781.2	793.7	819.0	861.4	930.2	953.1	1025.5
12.5°	873.9	867.5	850.0	826.7	804.5	795.4	810.2	851.7	924.4	951.0	1043.3
15°	1009.3	1006.6	973.9	925.8	871.9	826.7	816.6	848.0	925.1	953.4	1064.6
17.5°	1179.1	1175.4	1132.3	1062.2	974.3	886.4	839.2	851.0	927.5	957.4	1085.1
20°	1350.6	1339.1	1292.6	1209.1	1096.2	967.5	876.6	858.7	930.5	961.8	1106.7
22.5°	1478.6	1469.2	1427.4	1346.2	1216.2	1061.5	926.8	872.2	940.3	974.6	1133.3
25°	1591.1	1591.8	1550.4	1471.9	1337.5	1161.3	991.5	908.3	965.2	1000.9	1169.7
27.5°	1730.3	1722.2	1683.4	1605.6	1457.4	1262.0	1069.6	957.8	1002.2	1038.3	1217.5
30°	1896.7	1891.0	1846.2	1757.9	1590.5	1370.1	1158.9	1015.4	1050.1	1087.5	1280.2
32.5°	2092.4	2089.7	2043.2	1929.7	1744.1	1497.5	1263.7	1091.5	1121.5	1160.2	1370.1
35°	2322.2	2322.5	2267.6	2131.2	1912.2	1645.7	1382.6	1189.6	1208.4	1248.8	1477.3
37.5°	2463.7	2480.9	2460.3	2321.2	2102.5	1811.5	1536.9	1319.6	1307.5	1348.2	1592.1
40°	2494.0	2514.9	2579.9	2509.2	2315.4	1994.0	1673.7	1444.6	1429.4	1479.3	1740.0
42.5°	2451.5	2480.5	2618.0	2667.8	2541.5	2219.1	1857.6	1630.2	1611.0	1678.0	1924.0
45°	2426.3	2447.8	2606.9	2750.4	2737.6	2473.4	2091.7	1863.3	1856.3	1944.2	2136.2
47.5°	2382.5	2402.0	2555.0	2769.6	2852.8	2706.6	2373.1	2148.3	2162.2	2277.4	2375.7
50°	2406.1	2414.2	2497.0	2720.7	2886.1	2877.4	2687.4	2478.5	2525.7	2669.5	2646.9
52.5°	2402.7	2423.6	2490.3	2640.5	2890.5	2982.8	2997.0	2846.7	2946.1	3111.2	2947.8
55°	1942.5	1980.9	2411.1	2620.3	2906.0	3086.2	3272.5	3234.8	3420.1	3612.5	3287.4
57.5°	1854.9	1879.2	2117.7	2662.8	2988.2	3283.7	3579.1	3662.0	3971.9	4195.3	3701.1
60°	1837.7	1867.7	2114.7	2714.7	3155.0	3605.4	4033.6	4179.1	4643.3	4887.9	4180.8
62.5°	1784.2	1816.5	2094.8	2707.9	3391.8	4050.4	4615.4	4728.9	5280.1	5517.9	4582.0
65°	1614.4	1644.7	1932.7	2599.1	3551.5	4525.4	5304.0	5232.9	5782.7	5961.6	4782.1
66°	1498.1	1527.8	1805.1	2471.1	3514.4	4660.2	5547.9	5388.9	5895.2	6035.4	4743.1
67.5°	1285.6	1308.8	1557.1	2184.4	3317.4	4697.9	5753.1	5506.1	5907.0	5956.5	4519.7
70°	812.2	819.0	1012.0	1507.9	2511.2	4074.3	5440.8	5215.1	5419.9	5285.8	3789.0
72.5°	352.4	350.0	485.8	767.1	1421.7	2733.9	4401.1	4303.1	4251.5	3945.7	2652.3
75°	196.1	198.8	252.3	356.1	577.8	1342.8	2879.1	2755.1	2326.2	1985.0	1202.7
77.5°	157.3	161.0	209.2	252.7	259.4	468.3	1347.2	1096.2	660.0	529.6	334.2
80°	124.3	131.1	182.6	196.7	174.8	193.0	435.3	348.0	261.1	239.5	173.2
82.5°	98.4	103.1	156.7	148.9	122.3	130.0	208.5	203.1	169.8	154.6	100.1
85°	70.7	79.5	128.7	112.2	80.2	87.6	138.5	132.7	97.4	79.5	44.1
87.5°	29.0	37.7	91.0	74.5	44.8	40.8	69.1	65.0	46.2	33.7	21.9
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: P200361

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1015.0	1023.1	1033.6	1040.0	1043.3	1045.7	1049.4	1049.1	1050.1	1050.4	1051.8
5°	1021.8	1035.3	1050.4	1054.5	1054.5	1050.8	1047.1	1041.0	1038.6	1038.0	1038.6
7.5°	1039.3	1054.1	1067.3	1062.5	1052.4	1037.6	1018.4	1001.6	992.5	989.4	988.8
10°	1061.5	1079.4	1084.8	1066.9	1037.3	1001.6	963.5	935.9	920.0	915.7	914.3
12.5°	1088.5	1105.3	1097.9	1060.2	1005.3	947.7	895.1	851.0	818.0	807.5	806.9
15°	1118.1	1131.3	1105.3	1039.3	957.4	872.5	778.9	702.8	661.7	648.5	647.5
17.5°	1145.8	1152.5	1101.0	1002.9	887.0	749.6	625.3	566.6	552.5	555.9	556.5
20°	1169.3	1169.3	1086.1	950.7	776.2	587.5	509.0	508.0	518.1	528.2	530.3
22.5°	1195.3	1179.8	1060.2	876.9	619.2	480.7	469.3	478.7	490.2	501.3	503.0
25°	1227.3	1188.2	1024.1	765.1	486.8	436.6	441.0	448.7	454.5	461.5	462.5
27.5°	1263.0	1199.0	976.6	611.1	422.5	409.0	412.4	415.0	414.4	417.1	417.7
30°	1305.8	1211.5	911.6	477.7	395.8	385.4	379.3	377.0	377.0	381.4	383.0
32.5°	1363.1	1230.0	818.3	409.3	383.0	368.6	349.0	340.3	343.6	358.5	361.8
35°	1426.1	1249.9	692.0	386.1	380.3	360.8	330.5	314.3	314.7	328.5	332.8
37.5°	1494.8	1275.1	553.5	381.7	386.4	361.1	320.7	298.5	289.4	289.4	291.1
40°	1582.7	1301.1	448.1	384.7	399.2	365.2	315.7	286.0	260.4	261.1	262.4
42.5°	1697.2	1323.3	391.5	391.1	414.7	370.6	315.3	269.5	247.3	262.4	276.2
45°	1824.6	1334.4	366.5	396.9	427.2	373.9	309.9	266.8	249.0	294.1	320.4
47.5°	1971.1	1328.0	352.7	398.9	430.2	373.9	303.9	273.2	260.8	340.6	371.3
50°	2131.8	1309.5	339.2	394.8	429.2	373.3	309.6	279.6	265.1	348.7	369.9
52.5°	2320.8	1294.0	325.1	386.1	422.1	369.6	316.3	276.9	251.3	317.0	331.8
55°	2536.4	1298.4	309.3	373.6	411.0	362.5	314.0	266.1	236.8	279.3	288.4
57.5°	2812.0	1350.6	290.4	357.8	395.8	350.7	305.6	261.1	232.5	253.3	258.7
60°	3119.6	1441.6	266.8	341.9	377.0	331.8	299.2	263.4	234.5	251.3	254.0
62.5°	3345.3	1494.4	246.6	318.7	351.4	310.9	291.1	266.5	239.9	258.4	257.7
65°	3406.6	1407.5	221.3	284.7	316.7	289.1	281.0	269.8	242.2	264.1	261.1
66°	3320.7	1313.9	210.2	268.8	299.2	278.3	275.9	269.5	241.2	264.8	259.7
67.5°	3112.2	1121.8	191.0	245.6	271.2	262.1	267.8	266.5	238.5	264.1	257.0
70°	2538.1	765.4	163.4	204.5	225.7	230.8	252.3	255.7	229.8	252.3	236.8
72.5°	1773.4	466.3	144.5	158.7	182.6	196.7	231.1	240.9	218.0	220.3	205.5
75°	857.0	247.6	131.1	123.0	141.8	164.4	205.5	220.7	199.4	184.3	178.9
77.5°	267.2	151.3	111.2	99.0	111.2	132.7	171.8	193.4	177.5	154.3	152.3
80°	143.5	111.2	85.6	79.5	87.9	104.1	135.1	161.4	152.6	138.5	123.6
82.5°	94.7	72.1	63.3	61.7	67.0	79.5	100.4	133.7	133.7	118.6	86.2
85°	48.8	44.1	43.5	43.5	46.8	52.9	68.4	103.1	109.8	62.7	51.9
87.5°	24.3	25.3	23.6	24.6	26.3	25.9	32.7	51.9	62.0	38.1	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)