

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: P269774

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3733.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

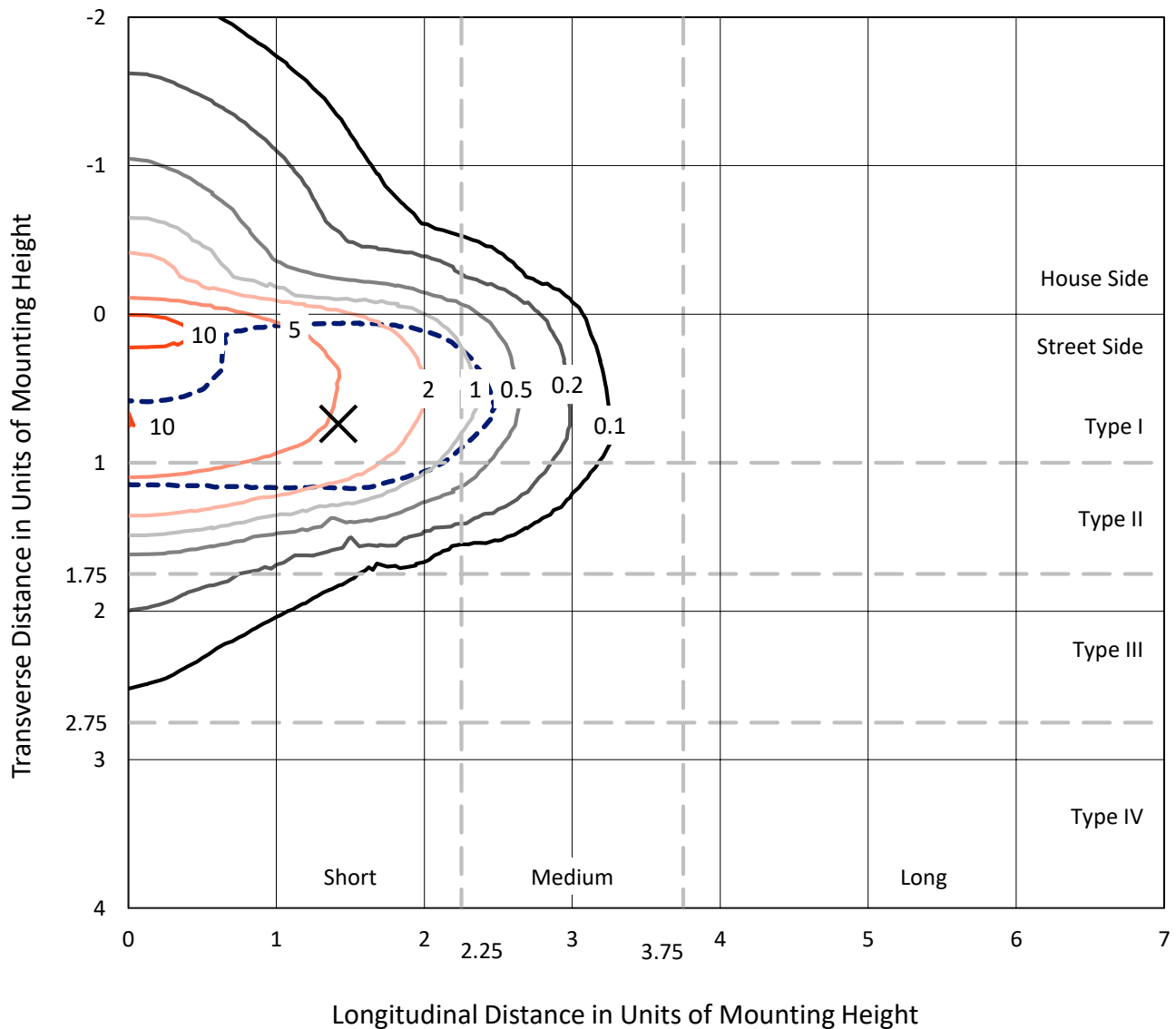


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

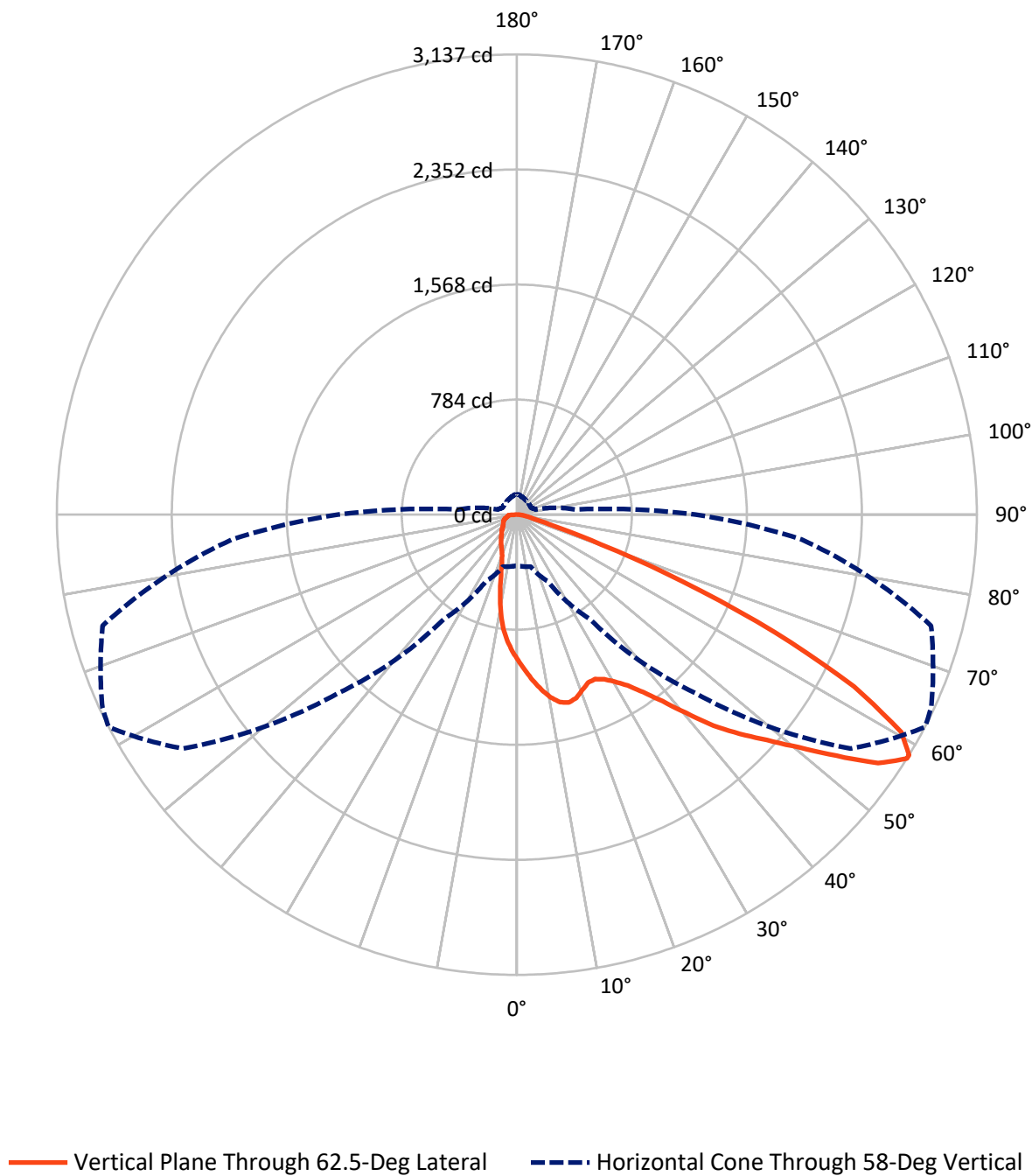


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	569.4	0.0	569.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3164.2	0.0	3164.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	3733.5	0.0	3733.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	2.4
10°-20°	226.7	6.1
20°-30°	366.5	9.8
30°-40°	581.8	15.6
40°-50°	851.3	22.8
50°-60°	890.4	23.8
60°-70°	526.1	14.1
70°-80°	148.2	4.0
80°-90°	53.8	1.4
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°	3733.5	100.0
0°-180°	3733.5	100.0

Coefficient of Utilization



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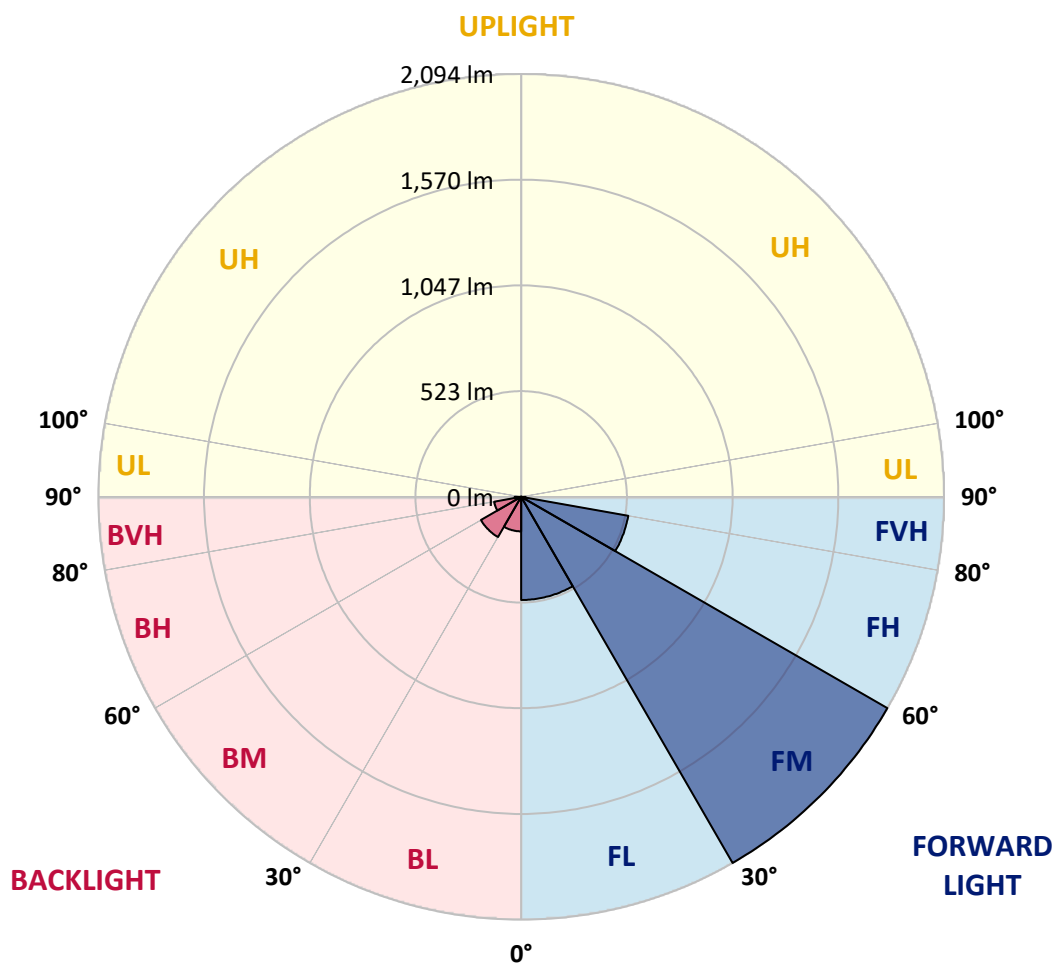
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.8	13.7			
FM	(30°-60°)	2093.8	56.1			
FH	(60°-80°)	538.4	14.4			G0/660
FVH	(80°-90°)	21.2	0.6			G1/100
BL	(0°-30°)	171.1	4.6	B1/500		
BM	(30°-60°)	229.8	6.2	B1/1000		
BH	(60°-80°)	135.9	3.6	B1/500		G1/500
BVH	(80°-90°)	32.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	1133.3	1124.0	1118.3	1113.2	1106.5	1092.2	1073.1	1061.0	1054.9	1033.9	1009.2
5°	1244.4	1236.2	1230.3	1223.4	1211.5	1189.1	1158.3	1133.7	1121.5	1079.7	1030.0
7.5°	1218.3	1221.8	1232.0	1250.3	1265.6	1262.7	1235.1	1203.8	1187.7	1129.6	1054.3
10°	1061.5	1067.4	1085.3	1127.6	1196.3	1266.5	1288.0	1266.4	1250.3	1178.9	1079.4
12.5°	1030.0	1029.8	1031.3	1042.6	1083.4	1182.3	1289.7	1311.5	1301.9	1226.0	1104.7
15°	1042.9	1043.2	1042.3	1047.0	1059.6	1098.7	1236.0	1329.0	1335.8	1273.5	1131.1
17.5°	1076.7	1075.8	1071.8	1071.8	1076.3	1091.6	1172.6	1312.8	1344.5	1315.6	1154.3
20°	1133.3	1129.2	1118.5	1108.7	1103.7	1112.0	1146.6	1275.6	1329.5	1352.3	1173.5
22.5°	1201.8	1198.7	1181.4	1160.3	1143.2	1143.0	1160.0	1243.0	1303.6	1387.0	1189.7
25°	1290.4	1285.4	1259.6	1225.7	1195.9	1184.4	1189.1	1241.4	1289.5	1424.6	1204.1
27.5°	1394.4	1385.1	1354.6	1306.0	1261.9	1238.9	1232.0	1270.1	1302.5	1471.2	1224.2
30°	1520.7	1510.1	1470.9	1407.4	1345.3	1307.6	1292.9	1320.9	1344.9	1527.9	1256.3
32.5°	1664.4	1648.8	1603.6	1533.5	1452.0	1394.3	1370.6	1388.1	1407.1	1596.4	1296.7
35°	1862.8	1844.4	1778.9	1682.3	1590.2	1510.9	1473.0	1485.5	1504.2	1698.3	1354.9
37.5°	1998.3	1989.9	1946.4	1855.7	1755.5	1664.2	1605.5	1612.8	1623.4	1825.7	1429.4
40°	1997.0	2000.3	2001.2	2002.1	1934.0	1846.6	1783.5	1775.7	1773.6	1965.8	1514.1
42.5°	1897.0	1910.8	1955.0	2044.8	2086.4	2046.2	1988.4	1966.1	1955.0	2130.6	1604.0
45°	1743.9	1751.2	1834.2	2009.7	2164.3	2244.1	2200.3	2129.9	2109.8	2282.1	1678.5
47.5°	1664.9	1673.1	1725.3	1916.5	2163.5	2403.9	2429.1	2295.2	2259.3	2414.0	1742.8
50°	1477.0	1493.8	1559.5	1754.4	2084.5	2477.3	2668.4	2492.1	2417.9	2542.5	1807.3
52.5°	1131.9	1157.8	1231.5	1488.0	1884.4	2441.0	2859.9	2730.8	2626.0	2675.3	1862.7
55°	714.0	733.2	795.2	1050.7	1507.4	2251.6	2932.4	2989.1	2896.0	2801.2	1910.8
57.5°	388.2	396.8	420.0	580.1	980.5	1833.0	2826.6	3136.2	3097.4	2908.1	1946.9
58°	347.5	353.3	367.6	502.8	869.6	1718.5	2779.7	3136.6	3117.3	2923.8	1949.7
60°	257.8	254.8	242.0	286.9	483.9	1187.2	2496.0	3011.1	3067.9	2942.8	1935.9
62.5°	226.5	219.2	193.0	190.0	235.4	547.0	1909.8	2579.4	2713.4	2833.6	1852.7
65°	212.7	205.1	171.2	160.3	169.8	231.4	1124.9	1934.4	2102.8	2502.0	1639.5
67.5°	202.6	192.4	157.4	142.4	143.1	152.9	450.9	1218.3	1407.7	1899.6	1275.4
70°	192.6	181.7	145.5	128.4	124.2	120.9	179.3	609.9	781.6	1199.9	813.1
72.5°	182.1	171.3	135.1	117.3	109.4	98.3	117.0	249.5	348.5	567.6	368.8
75°	166.8	157.2	124.9	107.3	96.2	81.3	88.5	130.3	156.2	226.2	177.8
77.5°	148.0	140.1	113.2	99.4	85.2	66.1	68.0	90.4	100.3	129.4	105.7
80°	106.4	109.1	100.7	89.3	75.9	53.5	52.2	65.9	71.1	83.2	68.7
82.5°	74.6	76.3	83.4	72.9	62.7	42.2	38.4	46.4	49.5	54.6	37.1
85°	51.6	49.8	57.1	50.8	45.4	28.1	26.4	31.5	33.3	34.0	19.1
87.5°	30.9	30.9	33.1	27.3	24.4	14.6	14.3	18.0	19.1	18.2	10.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	994.3	981.8	955.3	934.1	907.2	879.3	863.6	846.9	835.5	827.2	840.4
5°	1001.9	976.5	921.7	869.6	812.1	752.3	707.0	664.7	635.5	617.0	634.4
7.5°	1013.8	974.8	887.3	798.4	695.2	595.7	506.6	450.9	418.4	402.4	412.4
10°	1027.7	971.8	847.0	701.8	554.2	428.9	362.3	339.9	332.5	329.5	330.8
12.5°	1039.0	965.9	797.7	585.1	416.2	338.7	319.4	318.9	320.4	320.9	321.4
15°	1047.2	957.1	724.4	463.4	332.8	308.6	307.5	310.6	313.7	314.9	315.6
17.5°	1052.5	939.0	641.5	366.4	298.1	293.9	296.4	300.5	303.6	304.4	305.2
20°	1052.0	912.5	542.8	305.6	279.4	279.4	283.5	286.7	286.9	285.9	286.4
22.5°	1046.5	876.0	447.3	273.3	262.7	265.7	269.9	266.8	254.6	246.4	247.0
25°	1037.5	832.5	365.3	252.7	247.3	252.5	251.3	228.7	211.1	203.2	203.2
27.5°	1029.4	781.3	302.4	234.6	231.8	238.2	216.4	196.0	188.6	185.0	183.8
30°	1023.6	725.9	260.4	217.5	217.1	212.4	187.7	182.1	180.9	178.0	176.8
32.5°	1025.0	669.9	233.5	202.4	203.6	181.7	174.0	175.3	174.2	171.0	169.7
35°	1036.6	616.5	216.0	188.6	185.0	164.2	165.9	168.3	168.0	163.5	162.1
37.5°	1057.3	566.1	204.3	177.2	161.3	155.3	158.2	161.8	160.8	157.9	156.8
40°	1079.1	518.6	194.8	168.3	147.5	149.5	152.0	153.8	154.7	155.5	154.9
42.5°	1100.5	469.0	183.3	159.1	141.8	143.8	144.8	146.9	151.5	154.9	154.7
45°	1113.1	422.5	171.2	146.2	137.1	138.3	137.7	141.6	147.3	152.8	152.9
47.5°	1127.2	386.2	161.8	134.1	132.7	133.6	131.5	135.4	140.7	147.3	148.0
50°	1144.3	364.6	154.1	124.7	126.8	126.8	126.2	129.7	137.1	144.8	146.2
52.5°	1163.6	360.4	147.9	117.8	120.8	120.6	121.1	126.4	134.4	142.0	143.3
55°	1187.1	371.9	141.0	112.6	115.0	115.7	117.5	123.3	130.3	138.9	139.3
57.5°	1214.5	395.1	135.6	108.7	109.8	112.0	114.9	120.3	127.6	137.1	137.7
58°	1219.1	399.9	134.7	108.2	108.7	111.3	114.4	119.7	127.1	137.5	138.0
60°	1219.2	416.4	132.7	106.7	104.7	109.1	112.5	117.8	126.2	138.7	140.0
62.5°	1176.1	416.2	131.3	104.5	100.4	105.8	110.0	116.1	125.4	141.8	144.2
65°	1035.6	378.1	124.7	100.9	97.0	103.0	107.5	114.9	127.7	154.7	156.2
67.5°	809.9	309.9	112.2	95.9	92.6	100.3	106.2	114.7	130.4	157.7	158.8
70°	535.5	231.9	98.5	90.4	88.0	96.8	106.9	120.6	127.5	151.4	148.6
72.5°	277.9	162.9	87.3	83.4	82.9	94.0	117.0	120.0	124.4	142.4	138.9
75°	146.0	113.0	77.8	75.5	76.4	93.2	138.2	116.7	120.6	136.3	142.9
77.5°	89.3	91.3	69.4	68.6	70.3	91.1	138.0	112.6	115.0	125.4	132.7
80°	59.7	74.0	63.2	63.3	64.5	83.4	124.0	106.4	108.2	118.4	126.0
82.5°	37.8	43.7	57.3	60.2	58.7	68.7	105.3	96.8	99.4	135.6	143.3
85°	19.1	27.4	49.8	58.0	52.9	48.1	85.5	84.9	86.1	97.7	102.1
87.5°	8.9	15.1	38.8	50.7	40.0	30.1	62.1	62.9	67.8	69.4	69.4
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)