

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: P268200

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.7 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

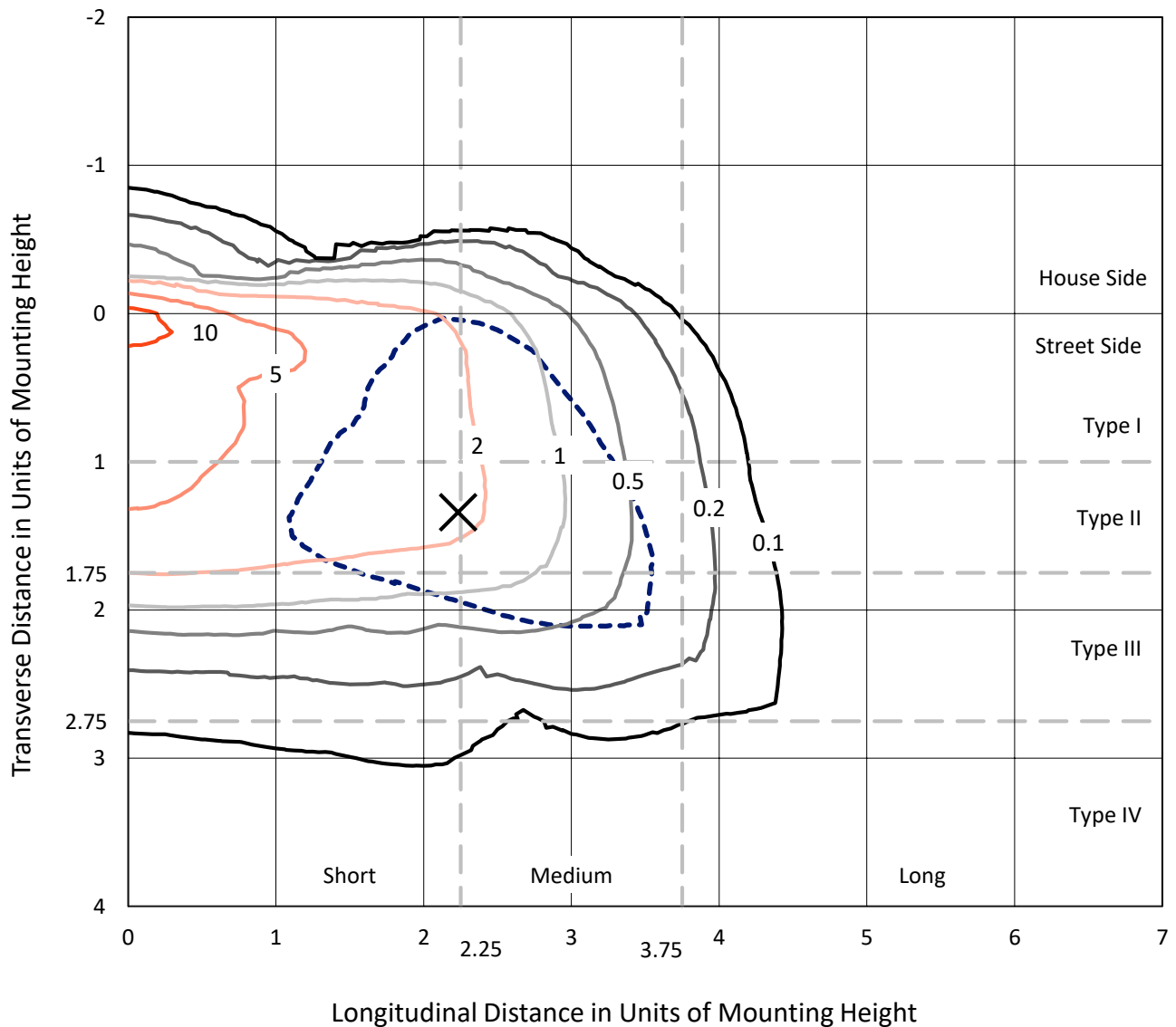
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

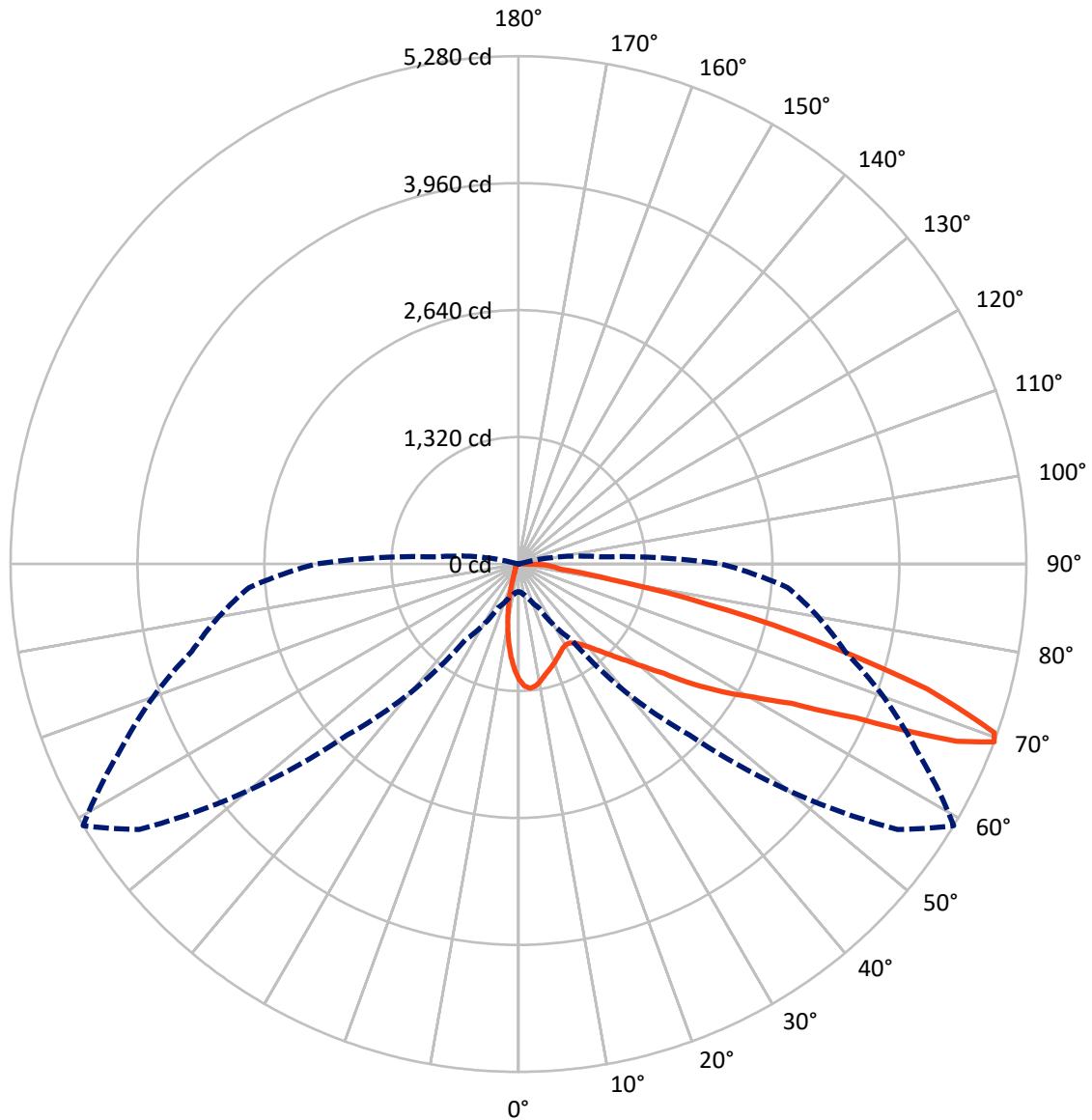
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.7	0.0	376.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	4249.0	0.0	4249.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	4625.7	0.0	4625.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	2.1
10°-20°	201.9	4.4
20°-30°	271.7	5.9
30°-40°	394.5	8.5
40°-50°	656.9	14.2
50°-60°	1024.8	22.2
60°-70°	1268.1	27.4
70°-80°	642.7	13.9
80°-90°	67.2	1.5
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°	4625.7	100.0
0°-180°	4625.7	100.0



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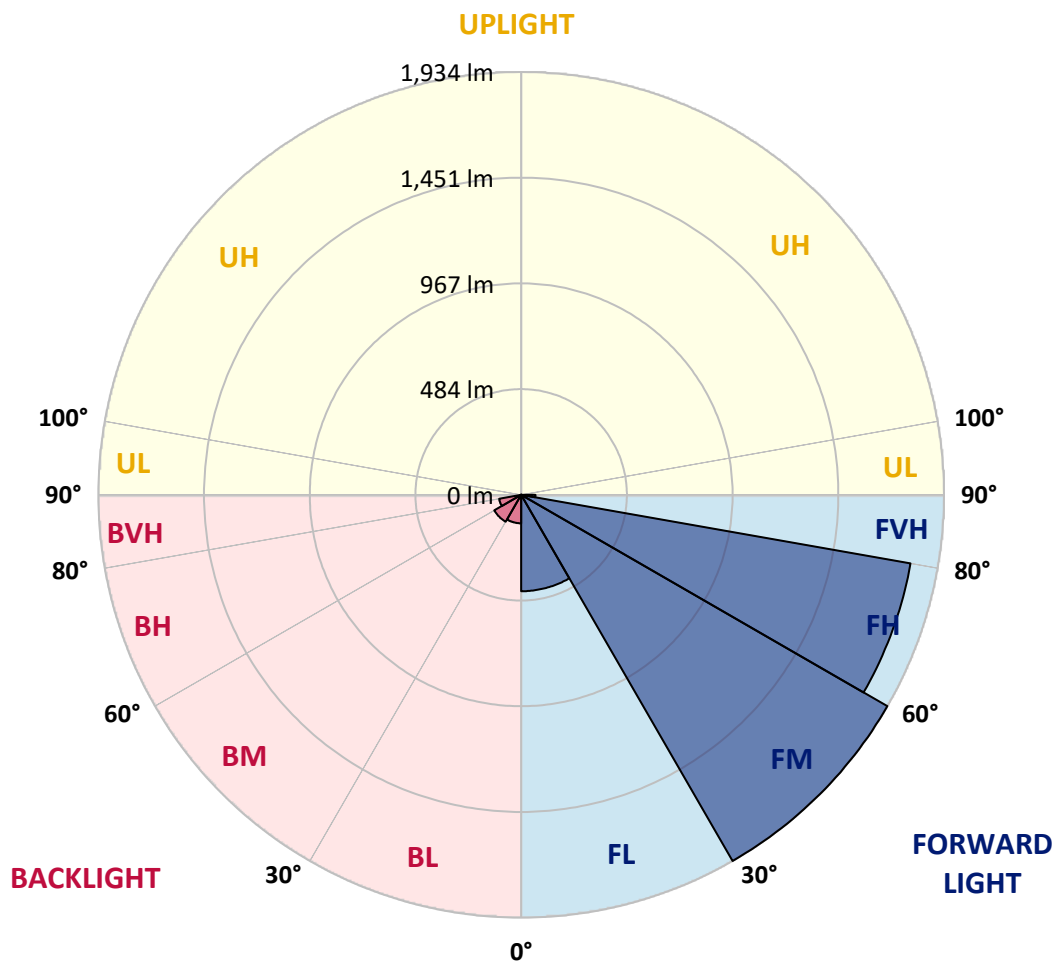
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.0	9.5			
FM	(30°-60°)	1934.3	41.8			
FH	(60°-80°)	1808.5	39.1			G2/5000
FVH	(80°-90°)	65.2	1.4			G1/100
BL	(0°-30°)	130.4	2.8	B1/500		
BM	(30°-60°)	141.9	3.1	B0/220		
BH	(60°-80°)	102.3	2.2	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0
2.5°	1319.6	1319.2	1313.3	1310.7	1306.0	1296.1	1280.7	1272.5	1259.5	1236.6	1206.2
5°	1307.7	1314.0	1317.3	1317.5	1321.0	1317.3	1303.4	1296.7	1278.6	1241.9	1187.0
7.5°	1225.9	1228.3	1238.0	1246.4	1262.6	1278.1	1283.0	1280.2	1269.5	1230.1	1157.1
10°	1138.6	1140.9	1152.4	1163.5	1185.5	1209.3	1234.4	1239.7	1244.1	1213.4	1128.5
12.5°	1063.2	1065.6	1077.3	1091.8	1117.4	1146.7	1185.8	1194.3	1214.0	1197.5	1105.5
15°	998.5	999.5	1011.0	1028.7	1059.5	1097.0	1141.2	1155.1	1185.1	1186.2	1085.2
17.5°	943.2	945.8	952.9	969.9	1003.3	1049.9	1101.5	1121.4	1156.7	1176.8	1065.6
20°	909.4	912.0	911.8	921.2	951.3	1001.0	1061.6	1085.5	1128.5	1167.2	1048.1
22.5°	902.9	902.9	896.1	894.8	912.6	954.2	1020.4	1049.4	1103.1	1162.9	1035.8
25°	926.2	925.2	908.1	894.4	895.2	920.0	980.4	1014.8	1081.6	1165.8	1029.3
27.5°	975.4	974.1	952.7	926.2	905.0	904.8	950.0	987.1	1064.6	1179.5	1032.0
30°	1043.4	1042.9	1019.5	986.3	947.9	912.6	939.5	973.4	1053.6	1204.0	1037.9
32.5°	1117.8	1117.0	1099.3	1064.3	1015.7	947.9	950.5	978.9	1056.8	1236.6	1052.5
35°	1196.5	1195.1	1187.5	1156.9	1103.3	1013.1	986.7	1008.5	1076.6	1285.7	1081.3
37.5°	1281.7	1283.0	1288.4	1259.2	1203.0	1104.3	1047.1	1061.9	1116.7	1352.0	1128.1
40°	1407.6	1407.3	1409.1	1370.6	1316.5	1216.0	1131.5	1136.3	1183.5	1440.3	1199.2
42.5°	1635.9	1620.0	1571.6	1493.1	1438.6	1343.7	1238.0	1233.1	1265.5	1549.2	1298.9
45°	1942.7	1908.7	1783.1	1632.7	1563.1	1487.6	1369.0	1353.0	1373.8	1680.3	1421.8
47.5°	2206.5	2171.4	1993.7	1778.1	1695.2	1624.0	1522.5	1493.8	1500.6	1827.1	1577.9
50°	2296.3	2279.1	2124.0	1904.8	1823.1	1795.9	1700.8	1665.6	1656.0	1996.8	1758.5
52.5°	2265.2	2263.9	2160.6	1987.0	1940.2	1973.8	1924.9	1884.4	1848.8	2175.8	1942.4
55°	2215.2	2221.8	2175.4	2058.8	2057.3	2136.3	2231.5	2197.8	2094.7	2370.1	2101.0
57.5°	2077.4	2105.4	2167.2	2194.9	2259.1	2340.1	2486.8	2506.6	2384.7	2518.9	2232.5
60°	1685.6	1747.1	1949.0	2214.4	2519.4	2720.8	2794.8	2811.9	2622.8	2642.6	2410.2
62.5°	1196.5	1259.2	1515.4	1964.5	2523.3	3221.2	3253.9	3187.2	2884.8	2826.0	2716.5
65°	635.1	683.5	892.7	1418.0	2187.8	3337.5	4056.7	3858.0	3347.4	3186.6	3112.2
67.5°	324.8	339.5	422.7	693.9	1504.0	2964.3	4776.3	4916.2	4144.3	3544.5	3093.0
69°	287.5	296.1	351.2	501.8	963.2	2510.9	4811.3	5279.6	4561.6	3514.7	2810.8
70°	278.4	285.9	336.1	454.2	752.8	2105.6	4677.1	5247.7	4668.2	3401.3	2600.1
72.5°	236.3	242.7	299.2	401.3	611.8	1045.3	3799.3	4446.7	4189.1	2833.3	1881.9
75°	158.0	179.4	287.2	376.1	569.2	593.8	2504.8	3213.3	2985.1	1911.1	980.4
77.5°	37.9	40.9	81.0	299.2	520.5	522.6	1288.2	1997.7	1629.3	681.2	231.8
80°	20.4	19.7	22.7	59.4	484.6	490.5	579.9	969.6	581.7	112.9	76.4
82.5°	14.5	13.7	14.6	24.9	152.5	446.7	419.6	438.9	241.1	43.4	34.2
85°	5.2	5.0	8.2	22.5	47.9	256.8	431.0	361.9	195.4	19.9	25.2
87.5°	1.8	1.5	3.1	12.2	14.6	109.4	266.0	273.7	77.0	12.0	11.8
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°	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0
2.5°	1193.3	1177.0	1147.2	1116.7	1088.3	1054.4	1037.5	1020.7	1013.6	1011.0	998.6
5°	1158.8	1131.2	1067.9	1004.5	945.8	883.7	842.5	809.6	790.1	780.7	765.9
7.5°	1114.5	1069.5	973.6	875.5	784.2	694.2	627.5	576.3	540.9	523.9	508.5
10°	1071.7	1011.8	875.2	741.6	617.6	498.3	406.3	339.5	296.9	277.2	264.7
12.5°	1033.2	955.4	780.3	611.0	455.4	315.8	222.2	169.1	142.6	133.4	128.9
15°	998.9	903.8	690.5	487.1	308.4	180.5	121.5	103.3	99.2	99.2	98.6
17.5°	966.4	853.0	604.0	370.6	193.6	110.4	92.3	90.0	90.0	91.0	91.0
20°	935.3	804.6	520.3	266.0	121.9	87.7	83.5	83.0	83.5	84.7	84.7
22.5°	908.6	760.7	442.1	182.5	90.5	79.1	77.0	76.1	76.4	77.2	77.8
25°	888.9	723.6	368.2	123.7	78.0	72.0	69.6	68.4	67.3	67.3	67.7
27.5°	876.2	692.1	296.9	90.0	70.1	65.3	61.8	59.6	57.3	56.0	56.6
30°	867.1	662.3	230.0	73.5	62.8	58.1	53.4	49.9	46.5	44.9	45.5
32.5°	863.7	638.2	171.8	64.9	56.2	51.1	45.3	40.9	37.1	35.8	36.1
35°	872.9	619.1	125.9	58.6	51.1	44.5	37.9	33.0	30.1	29.3	29.6
37.5°	897.0	609.0	94.1	53.4	46.4	38.9	31.6	26.9	25.2	25.2	25.4
40°	942.4	608.7	75.5	49.6	42.1	33.7	26.2	22.7	21.6	22.3	22.5
42.5°	1008.8	622.5	65.9	46.4	38.4	28.7	21.6	19.4	19.1	19.7	19.9
45°	1099.6	647.9	60.6	43.4	34.6	24.1	18.3	16.8	16.8	17.5	17.7
47.5°	1210.8	685.0	56.2	40.6	30.6	20.1	15.7	14.6	14.9	15.7	16.0
50°	1344.8	731.8	51.8	37.4	27.7	16.8	13.7	12.8	13.0	14.2	14.5
52.5°	1497.2	794.9	48.1	34.6	24.1	13.8	11.5	11.0	11.5	12.5	12.8
55°	1628.0	851.5	43.7	32.2	19.4	11.5	9.4	9.4	9.9	11.3	11.5
57.5°	1753.9	910.5	39.7	27.7	15.2	9.2	7.8	8.2	9.0	10.2	10.5
60°	1938.5	1010.8	35.0	23.3	11.5	7.4	6.6	6.7	7.8	9.2	9.4
62.5°	2252.1	1163.2	30.4	19.4	9.0	5.7	5.2	5.7	7.0	8.7	9.0
65°	2535.1	1225.2	24.9	16.2	6.7	4.4	4.4	5.2	6.7	8.4	8.7
67.5°	2377.5	1031.3	19.4	12.8	5.2	3.5	3.7	5.0	6.6	8.4	8.7
69°	2102.6	843.2	16.4	10.2	4.4	3.1	3.5	5.0	6.6	8.2	8.4
70°	1888.2	711.9	14.6	8.7	4.0	3.1	3.5	4.8	6.6	8.2	8.4
72.5°	1264.8	384.6	11.8	6.3	3.7	2.9	2.9	4.8	6.3	7.8	8.2
75°	543.6	106.2	9.4	4.4	3.1	2.6	2.6	4.4	6.0	7.5	8.2
77.5°	99.4	26.9	7.5	4.0	3.1	2.6	2.3	4.2	5.7	7.4	7.5
80°	39.4	13.4	6.0	3.5	2.9	2.3	2.1	4.0	5.5	7.0	7.4
82.5°	23.9	7.5	5.0	3.1	2.9	2.1	1.8	3.5	5.2	6.7	7.0
85°	19.4	5.2	4.0	3.1	2.6	2.1	1.5	3.1	4.8	6.6	6.7
87.5°	9.4	3.7	3.7	2.9	2.6	2.1	1.5	2.9	4.4	6.3	6.6
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)