

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: P299701

Luminaire Tested: **GAA-AF-02-LED-U-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-02-LED-U-SL2-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5244.4 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

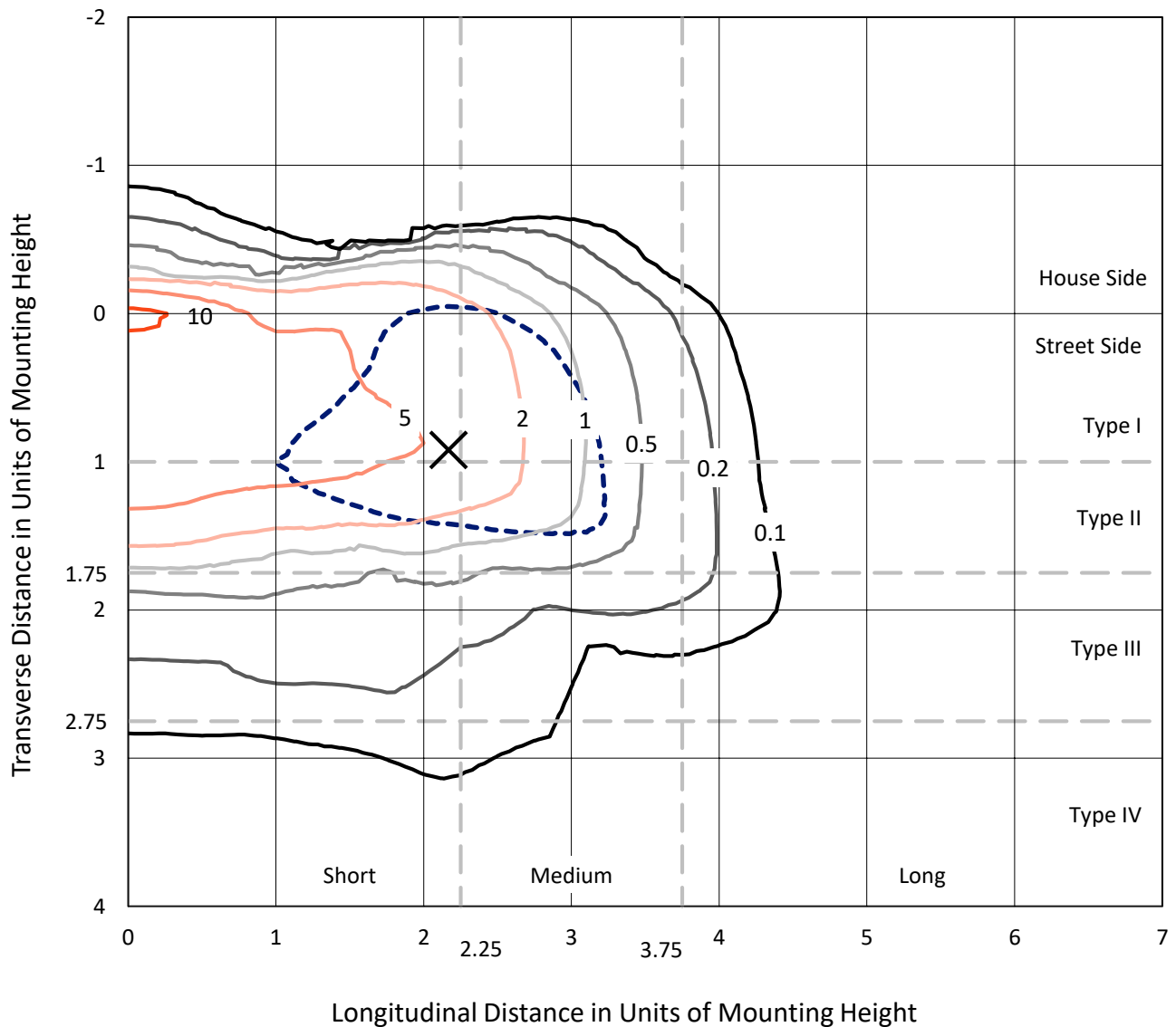


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

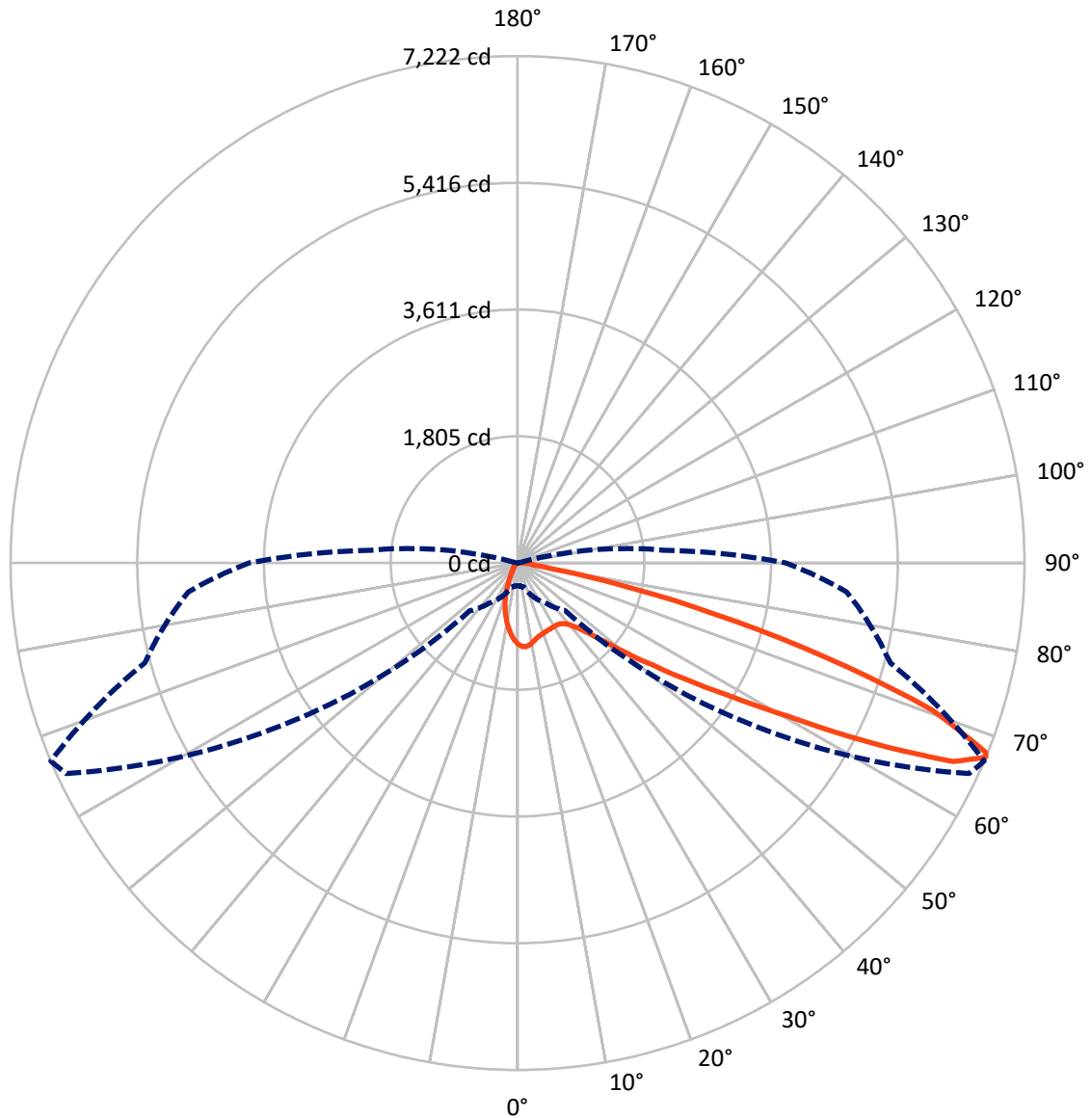


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.5	0.0	544.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4699.9	0.0	4699.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	5244.4	0.0	5244.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.8
10°-20°	200.3	3.8
20°-30°	291.2	5.6
30°-40°	454.3	8.7
40°-50°	804.8	15.3
50°-60°	1273.5	24.3
60°-70°	1458.6	27.8
70°-80°	605.0	11.5
80°-90°	62.5	1.2
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°	5244.4	100.0
0°-180°	5244.4	100.0

Coefficient of Utilization



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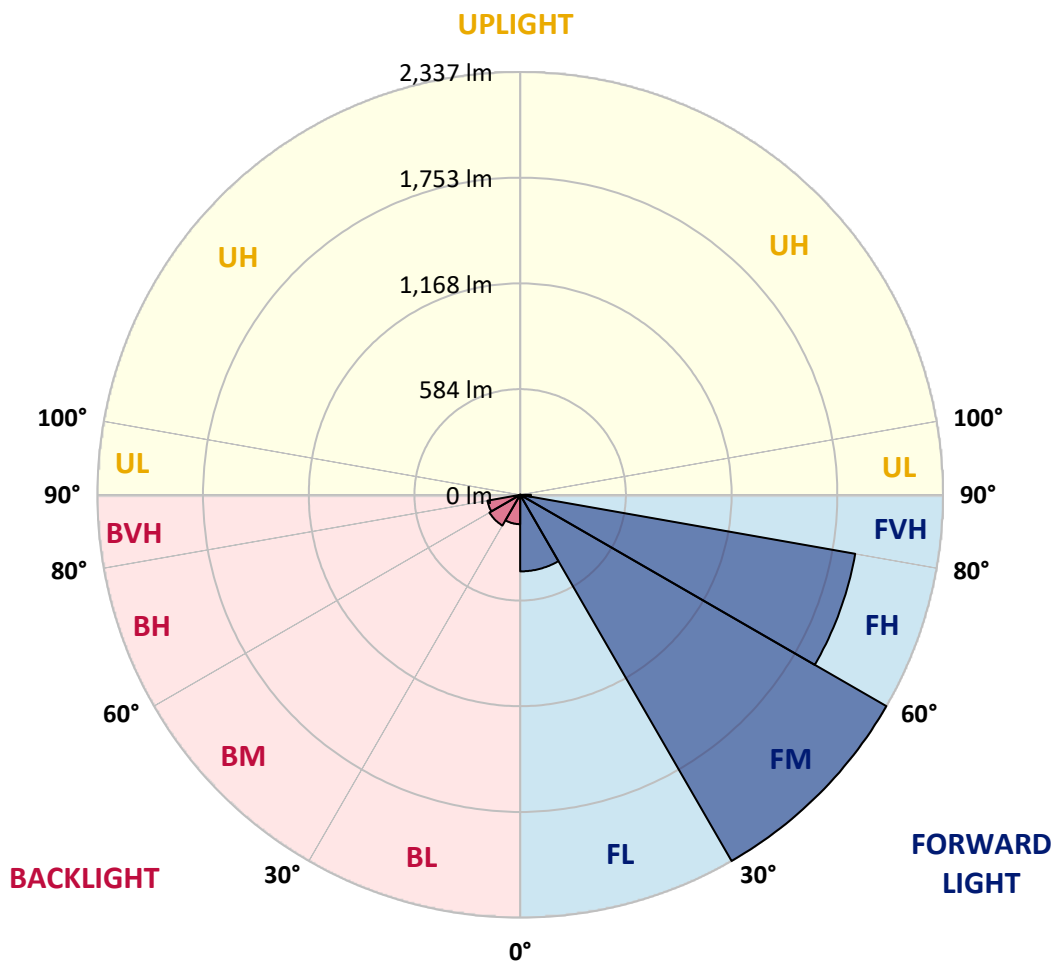
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.1	8.1			
FM (30°-60°)	2336.9	44.6			
FH (60°-80°)	1880.1	35.9			G2/5000
FVH (80°-90°)	59.7	1.1			G1/100
BL (0°-30°)	162.5	3.1	B1/500		
BM (30°-60°)	195.7	3.7	B0/220		
BH (60°-80°)	183.5	3.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6
2.5°	1195.7	1198.2	1197.9	1199.7	1204.0	1204.3	1200.0	1191.8	1189.9	1179.2	1160.6
5°	1102.8	1109.8	1114.1	1131.5	1151.1	1174.6	1192.4	1198.8	1197.9	1190.2	1162.1
7.5°	996.6	1003.6	1008.5	1029.0	1055.0	1095.4	1141.6	1179.5	1182.9	1191.2	1160.9
10°	925.9	927.2	933.9	953.5	980.7	1022.0	1077.1	1143.4	1153.5	1183.8	1157.8
12.5°	867.8	868.7	877.6	898.7	927.8	969.4	1027.2	1104.0	1119.6	1174.6	1157.2
15°	826.5	829.9	837.8	859.9	890.8	932.1	991.4	1074.9	1093.6	1171.3	1162.7
17.5°	812.8	816.4	818.9	834.8	862.9	903.3	964.2	1055.9	1077.1	1173.1	1173.4
20°	827.1	829.9	824.4	828.4	845.8	881.9	941.2	1039.7	1064.8	1175.2	1187.2
22.5°	880.7	881.9	866.9	849.5	846.4	866.3	923.2	1026.9	1053.8	1181.1	1203.4
25°	972.4	970.3	945.8	908.2	872.7	863.5	912.5	1018.9	1048.3	1187.2	1220.2
27.5°	1083.2	1086.2	1052.6	997.8	930.2	881.9	911.0	1015.6	1045.9	1191.5	1234.9
30°	1217.8	1222.0	1183.5	1114.7	1017.7	927.2	925.0	1015.0	1044.3	1188.7	1236.1
32.5°	1355.1	1360.3	1330.0	1259.1	1134.6	1003.0	956.8	1021.7	1047.4	1179.2	1229.1
35°	1498.9	1506.2	1486.0	1425.2	1293.0	1112.5	1012.8	1042.2	1061.8	1178.3	1222.0
37.5°	1697.4	1704.1	1666.2	1601.7	1484.8	1259.4	1102.8	1080.7	1095.7	1193.0	1223.9
40°	1993.8	1992.9	1895.0	1796.2	1695.6	1446.0	1229.1	1150.5	1158.1	1237.3	1246.5
42.5°	2316.8	2315.3	2170.6	2020.4	1929.6	1675.7	1395.2	1271.0	1265.8	1319.0	1305.3
45°	2565.8	2565.5	2447.5	2278.3	2211.3	1939.4	1609.9	1438.6	1430.7	1451.8	1413.5
47.5°	2672.0	2673.8	2614.5	2495.5	2523.6	2296.0	1880.6	1681.5	1669.6	1661.0	1602.9
50°	2589.4	2593.1	2598.0	2574.7	2752.7	2775.4	2243.7	2023.8	2018.0	1979.8	1888.9
52.5°	2319.6	2338.3	2395.8	2469.5	2832.3	3235.4	2813.0	2449.0	2417.8	2377.1	2277.1
55°	1865.0	1885.5	1994.7	2173.7	2713.9	3537.7	3610.8	2997.2	2945.2	2823.7	2679.3
57.5°	1234.3	1266.1	1424.6	1652.1	2370.1	3586.3	4406.7	3757.9	3576.8	3244.3	3081.6
60°	680.0	710.6	882.5	1088.7	1711.8	3345.9	4942.0	4748.4	4428.4	3714.5	3570.1
62.5°	418.8	435.3	562.2	754.0	1026.6	2640.8	5052.8	5993.1	5622.7	4319.8	4160.2
65°	333.4	340.5	402.6	616.4	736.0	1570.8	4695.2	6942.0	6818.4	5052.8	4688.4
67°	323.6	326.4	355.8	529.2	693.8	963.0	3933.5	7096.5	7221.9	5496.3	4705.0
67.5°	325.8	328.8	356.7	505.0	692.5	885.0	3671.0	7035.6	7194.0	5531.5	4631.9
70°	314.2	323.6	408.4	504.7	658.6	735.4	2198.5	6095.9	6260.7	5139.6	3930.1
72.5°	111.3	112.0	176.5	408.4	716.1	743.3	1104.0	4468.8	4590.9	3931.7	2833.5
75°	66.1	56.3	58.7	116.2	684.3	721.9	636.9	2855.5	2901.1	2252.9	1435.0
77.5°	45.6	39.8	41.0	51.4	260.6	711.8	506.0	1489.1	1440.5	790.1	305.6
80°	26.0	22.9	24.5	45.0	94.8	664.1	477.2	603.8	514.8	134.0	84.4
82.5°	13.8	11.6	14.1	37.0	66.1	413.9	478.1	291.8	231.3	45.3	57.5
85°	4.9	4.0	6.7	25.4	44.0	126.9	443.2	245.3	192.7	22.0	43.7
87.5°	0.9	0.9	2.8	10.4	17.7	38.8	262.2	145.6	97.6	13.2	30.0
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°	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6
2.5°	1152.9	1139.8	1122.0	1100.3	1074.6	1052.0	1035.1	1017.7	1014.0	1007.9	1007.0
5°	1145.3	1122.6	1078.6	1028.1	974.3	925.6	886.2	851.0	835.4	821.9	820.4
7.5°	1134.0	1100.0	1025.1	943.7	859.6	783.1	718.2	672.4	630.1	610.0	606.9
10°	1120.8	1072.2	964.8	851.9	735.7	627.7	531.3	450.6	401.6	372.6	368.9
12.5°	1108.6	1044.9	903.3	756.8	602.3	457.9	334.0	257.0	205.6	184.8	182.3
15°	1102.8	1022.9	845.8	659.5	462.8	291.5	182.6	141.3	124.5	119.6	119.3
17.5°	1102.1	1004.3	789.5	558.9	324.2	169.5	119.0	108.6	105.2	104.0	104.0
20°	1101.8	986.5	733.2	454.6	205.9	112.9	99.1	96.7	94.2	92.7	92.7
22.5°	1105.2	970.6	674.5	348.1	129.7	91.5	87.2	84.7	81.7	79.5	79.2
25°	1108.6	958.4	614.5	247.8	93.9	79.5	75.3	71.9	67.6	64.8	64.5
27.5°	1109.2	943.1	550.3	165.8	78.6	69.4	63.9	58.7	53.8	51.1	50.8
30°	1100.0	917.4	479.0	112.0	69.4	60.3	52.9	47.4	42.8	40.7	40.7
32.5°	1081.9	885.6	400.7	84.4	61.8	51.7	43.7	38.5	35.5	34.6	34.3
35°	1065.7	851.3	320.3	71.6	55.4	43.7	35.8	32.4	30.6	30.3	30.0
37.5°	1056.3	823.8	244.7	64.8	49.2	36.7	30.3	27.8	26.9	26.3	26.6
40°	1063.6	800.8	180.8	59.3	43.1	30.6	25.7	24.5	23.6	23.2	23.2
42.5°	1095.7	796.9	134.3	54.4	37.3	25.4	22.3	21.4	20.8	20.5	20.8
45°	1180.1	821.3	104.3	49.9	31.5	21.4	19.0	18.7	18.4	18.4	18.4
47.5°	1307.1	871.8	86.9	44.7	26.3	18.4	16.5	16.2	15.9	16.2	16.2
50°	1522.1	964.2	77.7	39.5	21.7	15.6	14.1	14.1	14.1	14.1	14.4
52.5°	1849.1	1145.9	71.6	34.3	17.7	13.2	11.9	11.9	12.2	12.2	12.5
55°	2213.5	1386.9	66.1	29.1	15.0	11.0	9.8	10.1	10.4	10.7	10.7
57.5°	2608.7	1654.0	61.5	23.9	12.8	8.9	8.3	8.6	8.9	9.5	9.5
60°	3085.6	1943.0	54.8	18.7	10.7	7.0	6.4	7.0	8.0	8.6	8.9
62.5°	3609.3	2222.6	46.2	14.7	8.9	5.5	5.2	6.4	7.6	8.3	8.6
65°	3967.1	2310.4	35.5	11.9	6.7	4.0	4.3	5.8	7.3	8.3	8.3
67°	3822.2	2094.8	29.1	10.1	5.5	3.1	4.0	5.8	7.3	8.0	8.3
67.5°	3721.5	2010.3	27.8	9.8	5.2	3.1	4.0	5.8	7.3	8.3	8.3
70°	3028.1	1510.2	23.2	7.3	4.3	2.8	3.4	5.5	7.0	8.0	8.0
72.5°	2103.9	931.1	20.8	5.2	3.7	2.4	3.1	5.2	6.7	7.6	8.0
75°	1000.3	337.1	17.7	4.0	3.4	2.1	2.8	5.2	6.7	7.6	7.6
77.5°	204.0	78.3	14.4	3.4	2.8	2.1	2.4	4.9	6.4	7.3	7.3
80°	67.0	30.3	10.7	3.1	2.8	2.1	2.4	4.6	6.4	7.0	7.3
82.5°	48.3	15.3	7.0	3.1	2.8	2.1	2.1	4.6	6.1	7.0	7.0
85°	37.0	10.7	4.6	3.1	2.8	2.1	2.1	4.3	5.8	6.7	6.7
87.5°	24.5	4.3	3.7	3.1	2.8	2.1	2.1	4.3	5.5	6.4	6.7
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)