

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: P191089

Luminaire Tested: **GAN-AF-01-LED-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

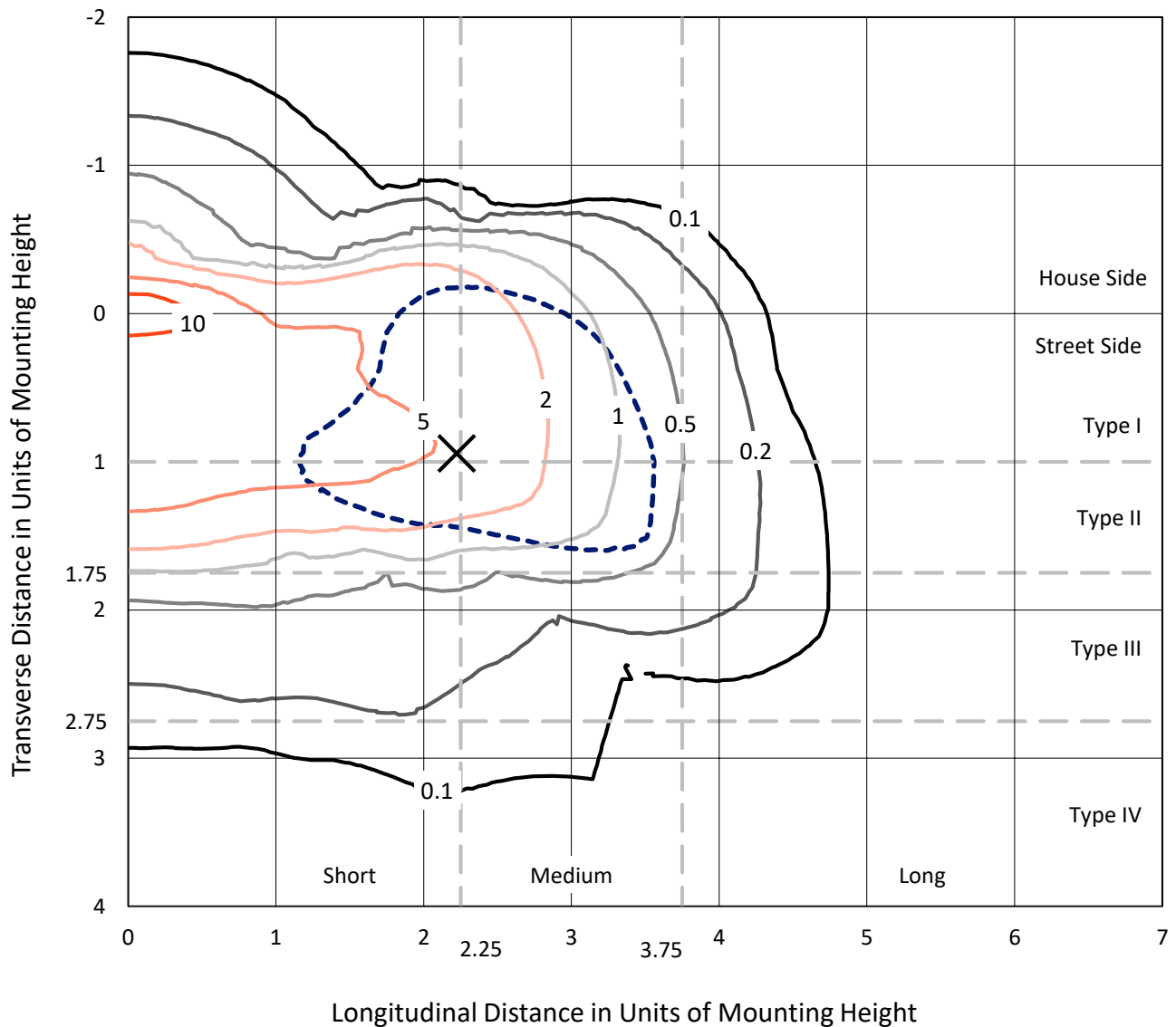
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

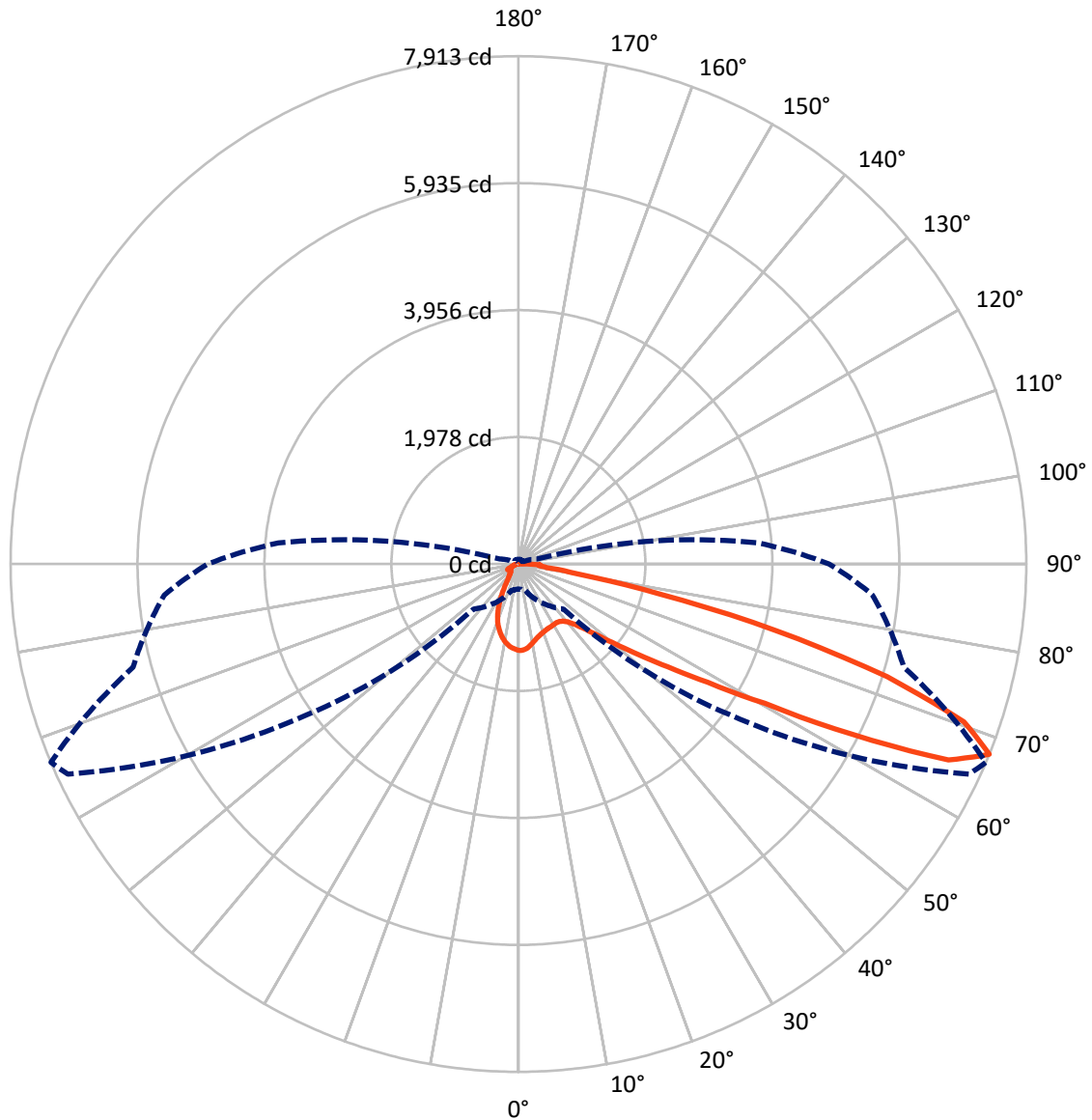


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.7	0.0	1034.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5210.4	0.0	5210.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	6245.1	0.0	6245.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.8
10°-20°	265.9	4.3
20°-30°	360.5	5.8
30°-40°	512.4	8.2
40°-50°	857.3	13.7
50°-60°	1356.2	21.7
60°-70°	1727.7	27.7
70°-80°	905.0	14.5
80°-90°	145.2	2.3
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°	6245.1	100.0
0°-180°	6245.1	100.0

Coefficient of Utilization



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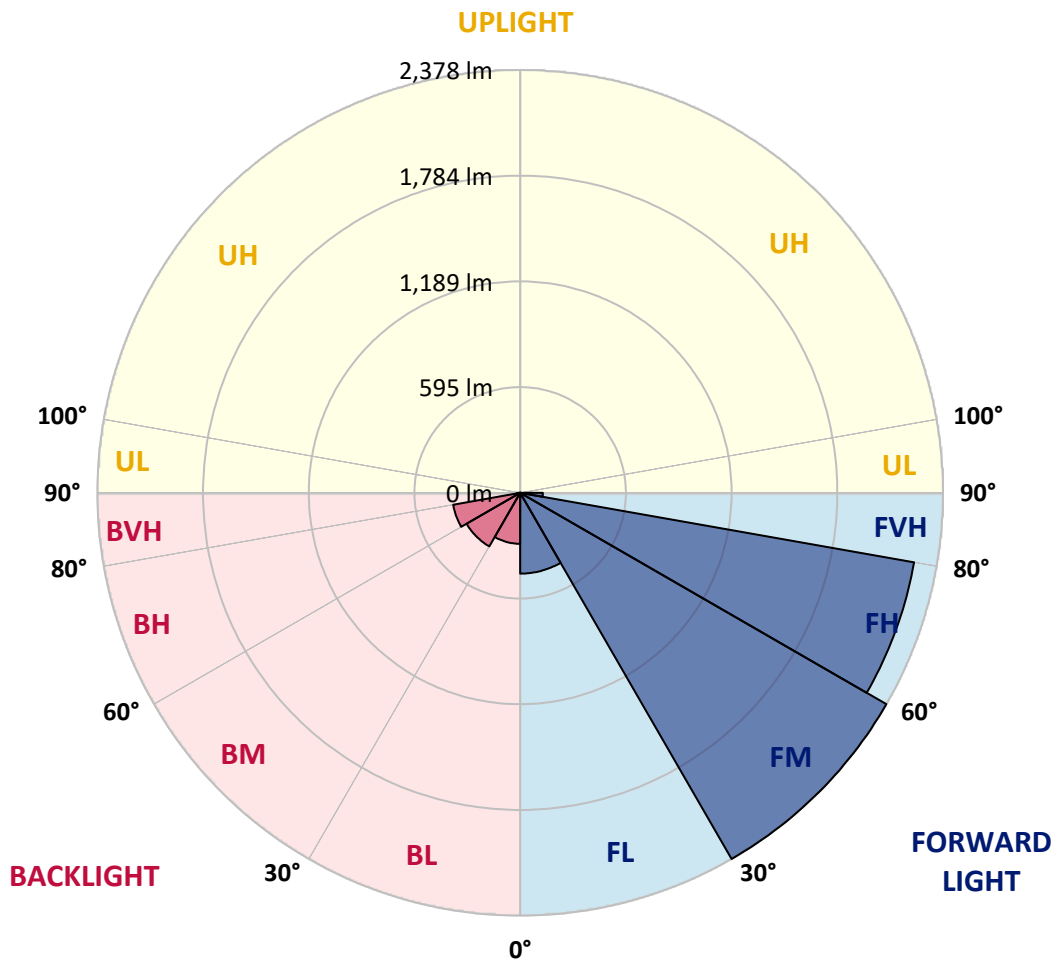
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.5	7.3			
FM (30°-60°)	2378.3	38.1			
FH (60°-80°)	2250.0	36.0			G2/5000
FVH (80°-90°)	127.6	2.0			G2/225
BL (0°-30°)	286.8	4.6	B1/500		
BM (30°-60°)	347.7	5.6	B1/1000		
BH (60°-80°)	382.7	6.1	B1/500		G1/500
BVH (80°-90°)	17.5	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1291.6	1293.8	1300.6	1304.9	1324.3	1332.6	1338.4	1344.3	1345.2	1347.9	1345.2
5°	1156.1	1160.7	1173.3	1187.5	1225.1	1254.6	1285.7	1318.1	1324.0	1344.9	1350.7
7.5°	1051.1	1049.9	1060.3	1077.3	1115.7	1156.8	1211.3	1275.6	1288.2	1335.4	1358.2
10°	974.5	973.4	984.6	1002.1	1038.8	1077.6	1139.2	1227.2	1245.1	1320.2	1365.2
12.5°	917.8	918.1	929.1	948.6	985.8	1024.9	1087.4	1180.5	1203.2	1302.7	1372.6
15°	880.1	882.6	891.6	912.2	948.6	987.7	1048.9	1145.3	1170.9	1288.8	1381.0
17.5°	867.6	871.6	874.6	889.8	920.9	959.9	1020.0	1119.5	1146.5	1279.3	1388.3
20°	879.2	883.8	878.0	883.2	903.0	937.4	997.2	1099.2	1126.9	1268.6	1389.3
22.5°	929.5	933.7	916.6	901.4	900.2	921.2	978.5	1083.1	1111.7	1260.5	1389.6
25°	1017.8	1020.6	991.6	956.6	922.4	915.2	965.2	1072.1	1102.5	1253.4	1383.7
27.5°	1126.3	1128.4	1095.2	1043.4	974.8	929.1	960.6	1065.6	1097.3	1247.3	1373.8
30°	1258.0	1268.3	1223.6	1158.3	1058.1	970.1	969.8	1062.2	1091.5	1236.8	1354.5
32.5°	1393.0	1397.2	1366.5	1300.3	1170.6	1042.2	995.6	1064.7	1089.9	1224.2	1329.8
35°	1529.7	1535.2	1515.2	1461.9	1324.3	1147.8	1046.2	1079.1	1099.5	1219.9	1312.5
37.5°	1706.8	1714.2	1686.4	1624.9	1511.2	1291.0	1130.3	1115.4	1128.7	1232.1	1307.3
40°	1986.7	1983.3	1902.3	1810.5	1715.7	1474.3	1250.4	1177.0	1184.8	1271.9	1323.4
42.5°	2312.6	2304.2	2164.7	2020.6	1940.5	1696.0	1409.2	1283.9	1282.4	1350.1	1379.7
45°	2572.4	2565.7	2440.0	2262.4	2198.3	1948.5	1614.7	1443.2	1431.7	1474.3	1483.8
47.5°	2713.2	2713.5	2641.2	2496.1	2494.6	2269.4	1878.6	1673.5	1653.8	1673.9	1663.6
50°	2664.0	2670.4	2662.7	2616.5	2764.9	2690.2	2223.2	1994.8	1955.0	1974.7	1935.6
52.5°	2425.5	2433.9	2479.4	2550.3	2878.6	3198.6	2729.5	2393.8	2347.7	2340.6	2297.1
55°	2003.0	2013.2	2106.2	2298.7	2784.1	3540.1	3528.4	2902.6	2829.0	2762.2	2743.7
57.5°	1380.6	1397.6	1547.2	1833.0	2478.2	3643.2	4479.7	3627.9	3478.2	3244.8	3249.1
60°	778.3	797.9	974.5	1234.0	1861.1	3531.1	5203.4	4726.4	4410.5	3809.9	3841.9
62.5°	494.9	516.2	650.1	857.3	1116.7	2927.6	5500.0	6253.6	5852.3	4506.5	4537.9
65°	400.7	409.9	473.0	707.7	810.9	1763.8	5274.8	7511.6	7362.0	5390.6	5244.1
67.5°	391.1	394.2	426.9	594.0	777.6	991.3	4207.5	7746.9	7912.9	6216.4	5538.3
70°	386.5	397.3	481.1	567.0	744.7	836.2	2528.4	7102.0	7364.1	6432.2	5146.8
72.5°	187.5	186.9	242.0	512.8	838.9	867.3	1299.0	5746.4	6009.4	5572.7	4229.3
75°	151.2	138.3	132.2	187.8	806.6	895.6	827.8	3954.0	4144.4	3736.3	2599.8
77.5°	143.5	128.1	117.3	117.6	340.9	949.8	701.2	2188.4	2243.8	1687.7	712.4
80°	118.9	104.8	97.0	109.4	165.1	904.5	758.2	990.4	908.8	414.5	237.1
82.5°	82.6	75.2	73.0	91.8	132.2	644.6	881.7	532.1	446.2	207.6	146.3
85°	52.7	45.0	49.9	66.8	102.9	297.5	908.2	414.8	329.8	131.9	82.6
87.5°	24.3	19.7	24.7	36.9	67.1	102.6	864.2	466.0	339.7	69.6	52.1
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°	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1347.6	1341.8	1337.2	1328.6	1319.0	1309.8	1301.5	1291.0	1287.9	1285.1	1289.4
5°	1352.0	1346.1	1329.2	1302.7	1273.5	1246.1	1218.6	1195.2	1180.8	1172.7	1177.3
7.5°	1358.5	1350.1	1315.0	1266.4	1213.7	1165.7	1116.0	1076.3	1047.1	1033.3	1037.3
10°	1364.3	1348.2	1291.0	1218.0	1141.0	1069.6	991.3	926.7	878.6	853.3	859.6
12.5°	1366.8	1341.2	1257.4	1157.7	1052.0	947.4	832.2	735.4	666.5	641.2	636.0
15°	1369.2	1333.2	1220.5	1088.9	944.5	796.4	635.0	519.2	462.0	449.3	446.5
17.5°	1369.8	1319.3	1178.6	1014.5	818.6	616.8	434.2	360.6	360.9	381.3	383.7
20°	1363.4	1298.7	1127.8	921.8	667.7	426.6	298.1	285.5	331.9	382.8	388.9
22.5°	1348.6	1271.3	1070.2	813.7	494.9	280.9	230.7	244.5	304.5	366.8	373.9
25°	1329.8	1238.1	1002.1	688.3	327.7	200.8	193.4	210.3	251.0	292.6	296.6
27.5°	1304.3	1198.6	925.8	544.8	212.8	165.4	170.3	181.7	198.4	216.8	218.7
30°	1271.3	1151.5	844.1	397.3	160.8	148.7	155.8	162.0	169.1	179.5	180.4
32.5°	1233.4	1106.2	760.4	274.4	142.6	140.1	145.7	148.7	154.3	160.8	161.4
35°	1201.7	1063.2	673.5	194.1	134.9	133.7	137.4	138.6	143.8	150.9	151.5
37.5°	1183.6	1028.0	583.9	156.4	129.6	127.8	129.9	129.9	137.4	147.8	149.4
40°	1184.8	1008.6	494.3	141.4	125.3	122.9	123.2	123.2	132.8	144.1	145.1
42.5°	1218.3	1013.5	414.8	135.5	121.9	119.2	117.6	118.6	126.5	134.0	134.6
45°	1297.2	1048.3	340.3	131.9	118.6	117.6	114.3	114.0	117.0	120.4	120.4
47.5°	1426.5	1117.0	289.8	129.3	115.8	115.5	111.5	107.5	107.2	108.4	108.4
50°	1636.8	1235.2	255.9	126.5	114.0	111.5	106.9	100.7	98.5	99.4	99.4
52.5°	1952.2	1446.2	243.0	122.9	110.0	106.0	100.7	94.5	92.7	93.0	93.0
55°	2365.8	1770.2	241.1	118.6	105.7	99.1	94.8	90.2	88.1	88.7	88.7
57.5°	2871.2	2218.3	274.0	111.8	99.7	92.4	89.9	86.8	85.3	86.2	85.9
60°	3485.6	2804.6	406.5	104.8	93.9	86.2	86.2	83.8	82.6	83.5	83.2
62.5°	4193.3	3478.2	571.6	99.4	87.8	81.3	82.6	81.3	80.1	80.7	80.4
65°	4821.0	3917.1	535.2	95.4	81.6	76.7	78.9	78.3	77.3	77.9	77.6
67.5°	4839.1	3754.4	300.5	91.1	75.8	72.0	75.2	74.9	74.3	74.9	74.6
70°	4318.7	3170.2	169.4	83.2	69.6	66.5	70.8	70.5	69.9	71.1	70.8
72.5°	3460.0	2300.5	123.8	73.3	63.4	60.7	65.6	65.3	65.3	67.1	66.2
75°	1991.0	1183.9	98.8	62.8	57.0	54.8	59.1	59.4	60.0	62.5	60.7
77.5°	567.6	369.0	80.7	53.3	49.0	48.1	52.4	53.0	53.3	56.1	53.6
80°	210.9	170.0	66.5	44.7	40.0	40.3	44.4	45.3	45.6	48.4	45.3
82.5°	134.6	112.1	53.9	34.5	31.4	31.1	36.0	37.2	37.2	37.5	35.7
85°	78.6	67.1	40.6	25.0	22.2	21.3	26.8	28.9	28.0	27.4	26.2
87.5°	52.7	46.2	25.0	13.8	12.0	11.4	15.8	17.3	16.7	15.8	14.8
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)