

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: P268175

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2919.9 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

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

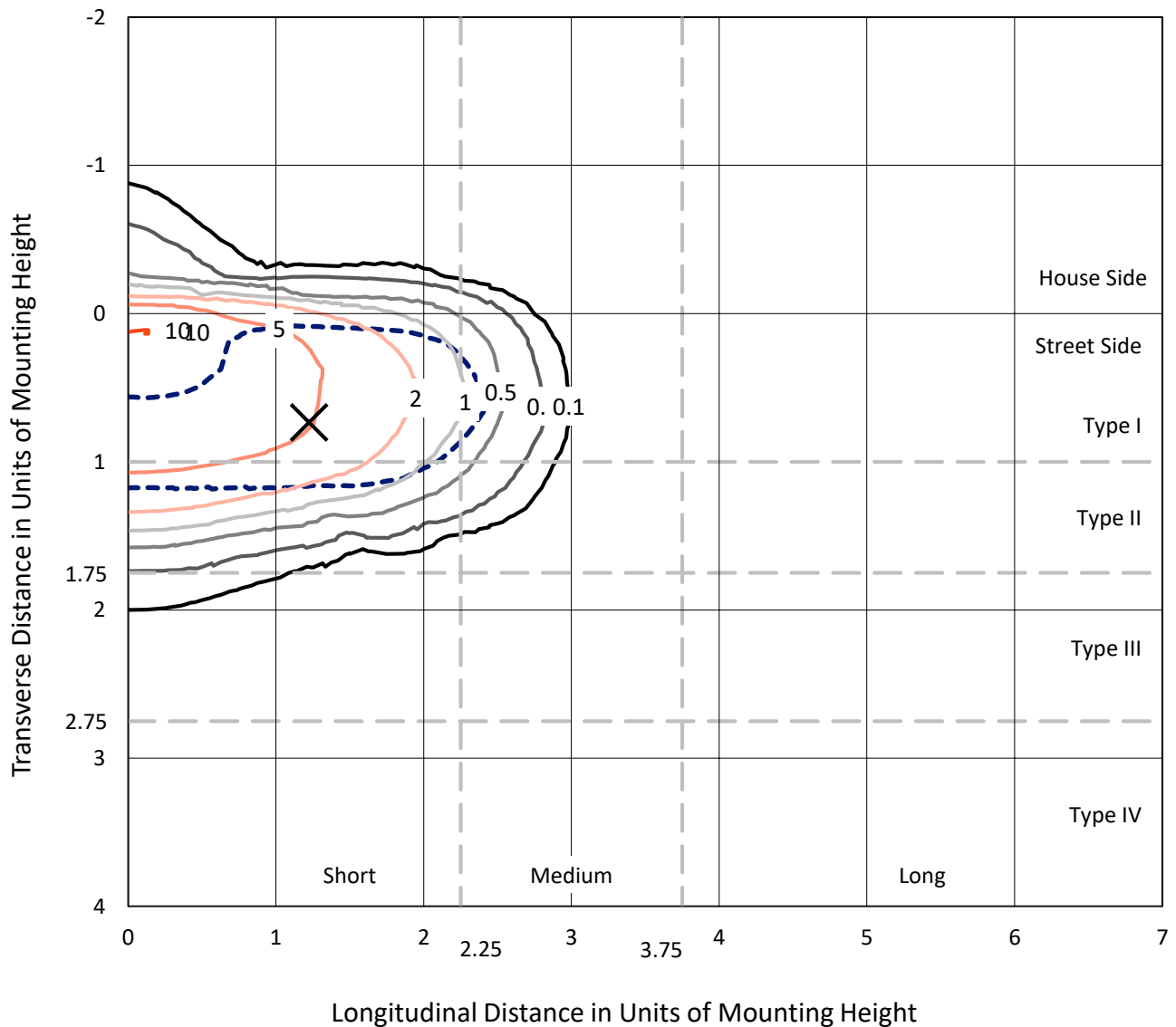


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

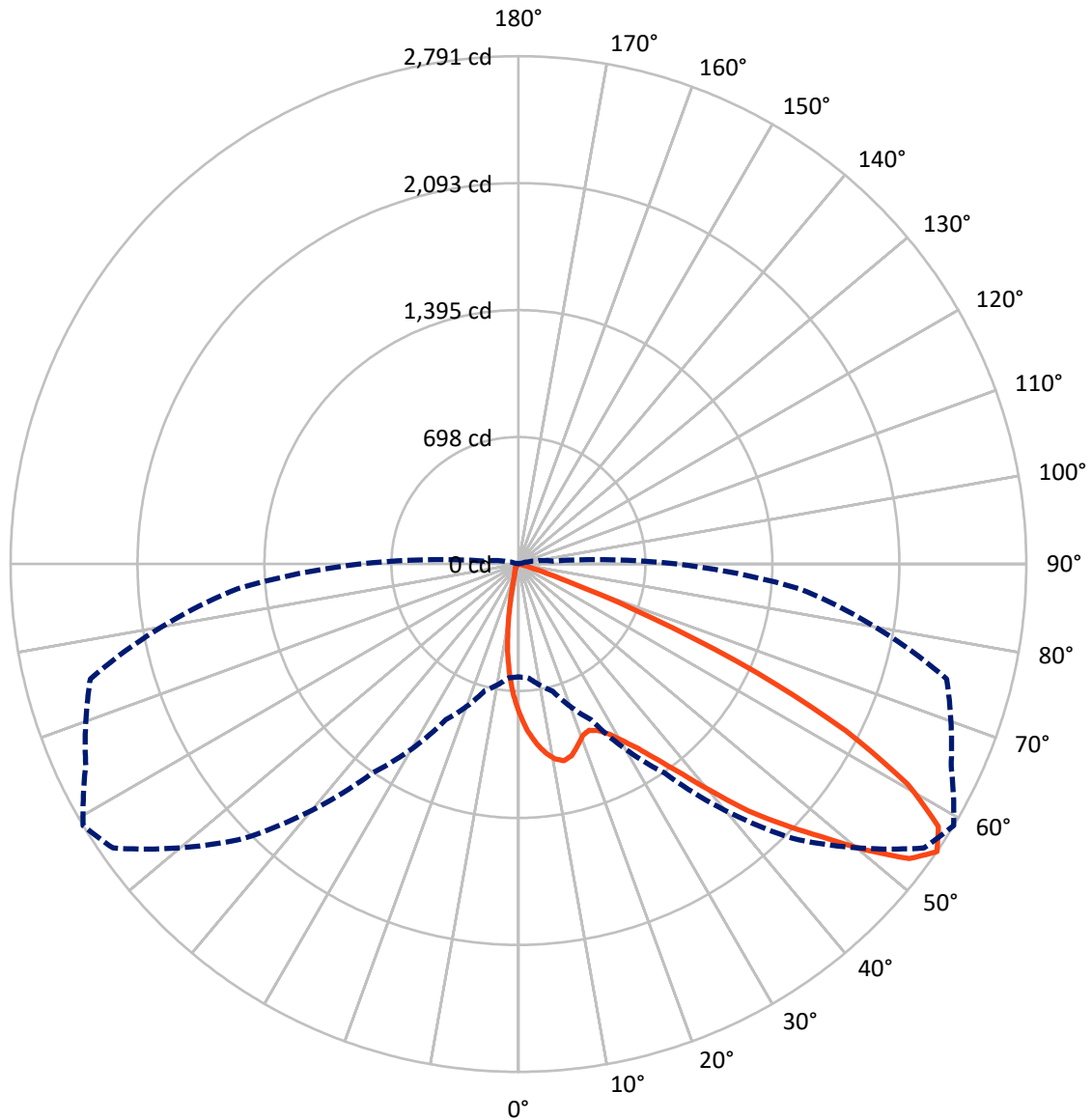


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.1	0.0	163.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	2756.8	0.0	2756.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	2919.9	0.0	2919.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	2.4
10°-20°	164.8	5.6
20°-30°	280.5	9.6
30°-40°	482.4	16.5
40°-50°	744.7	25.5
50°-60°	748.7	25.6
60°-70°	383.9	13.1
70°-80°	41.6	1.4
80°-90°	4.4	0.1
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°	2919.9	100.0
0°-180°	2919.9	100.0

Coefficient of Utilization



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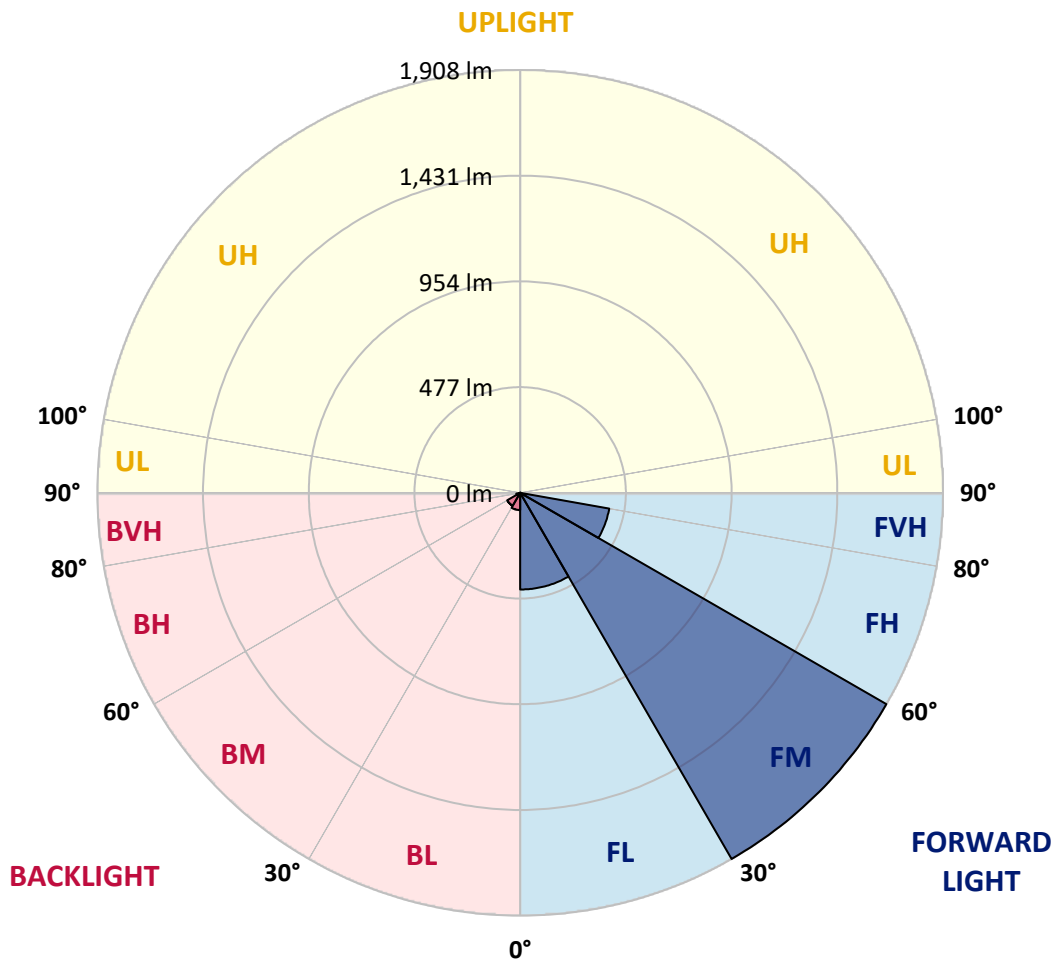
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.3	14.9			
FM (30°-60°)	1908.1	65.3			
FH (60°-80°)	408.1	14.0			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	77.8	2.7	B0/110		
BM (30°-60°)	67.7	2.3	B0/220		
BH (60°-80°)	17.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	972.5	962.3	959.1	957.1	947.5	935.7	919.4	911.9	896.4	871.4	840.8
5°	1061.6	1059.7	1052.9	1049.0	1038.9	1022.0	996.1	983.7	959.1	917.1	862.2
7.5°	1022.7	1034.6	1044.1	1059.9	1079.9	1079.3	1057.6	1044.5	1017.1	961.5	885.9
10°	872.3	881.9	897.3	933.3	1006.8	1071.6	1097.1	1087.8	1065.7	1002.4	908.7
12.5°	842.8	841.7	844.5	855.0	893.5	985.8	1090.5	1109.1	1104.7	1039.8	930.6
15°	858.5	857.3	857.0	860.5	869.9	908.7	1039.9	1093.9	1128.5	1074.5	948.9
17.5°	902.3	897.2	894.5	891.6	888.9	898.5	979.2	1050.9	1132.1	1104.7	964.3
20°	977.7	969.1	958.9	942.4	927.0	922.1	953.8	1006.8	1119.2	1127.8	974.3
22.5°	1072.2	1061.3	1043.7	1013.6	982.0	963.7	966.3	992.8	1099.9	1153.0	979.0
25°	1178.7	1164.6	1141.0	1099.2	1052.9	1020.5	1003.5	1012.8	1091.1	1182.3	984.3
27.5°	1292.5	1276.9	1246.2	1189.1	1136.5	1092.8	1058.4	1057.1	1106.2	1221.1	992.8
30°	1405.4	1403.1	1363.0	1302.7	1233.2	1179.8	1130.2	1123.8	1147.9	1274.4	1010.0
32.5°	1556.0	1537.9	1489.0	1427.0	1346.6	1282.7	1223.9	1209.1	1212.3	1336.7	1036.4
35°	1745.9	1726.1	1657.2	1571.6	1481.8	1406.2	1341.3	1321.1	1313.5	1438.5	1080.8
37.5°	1868.6	1868.3	1824.9	1737.9	1641.5	1558.2	1487.7	1464.0	1448.6	1561.6	1149.7
40°	1871.9	1880.0	1885.6	1884.7	1816.3	1739.5	1676.7	1647.8	1612.0	1726.0	1238.8
42.5°	1771.4	1792.3	1842.5	1927.6	1968.1	1937.6	1884.7	1856.2	1803.1	1901.8	1347.4
45°	1635.6	1650.0	1737.9	1894.6	2050.6	2134.2	2093.8	2042.7	1972.7	2085.3	1444.7
47.5°	1574.8	1577.3	1634.0	1806.2	2056.8	2295.1	2319.6	2236.3	2126.6	2233.1	1520.8
50°	1393.0	1397.7	1475.8	1653.1	1984.0	2371.0	2546.2	2467.4	2294.7	2347.1	1548.6
52.5°	1049.8	1056.4	1155.7	1401.3	1784.2	2338.6	2708.6	2689.4	2478.8	2402.7	1550.1
55°	619.6	628.0	722.9	943.3	1403.3	2132.5	2720.6	2790.9	2623.9	2435.7	1547.7
57.5°	289.3	295.4	349.6	486.0	872.8	1685.4	2539.1	2721.3	2704.2	2453.1	1564.8
60°	153.7	155.4	168.5	210.5	394.4	1068.8	2184.6	2457.5	2631.0	2477.2	1585.7
62.5°	117.5	118.0	117.4	122.3	165.7	474.3	1651.4	2020.2	2336.9	2459.1	1562.5
65°	101.9	102.6	97.8	96.7	106.3	169.2	980.9	1440.1	1836.3	2215.0	1405.2
67.5°	91.4	91.6	85.8	80.8	82.6	91.4	387.0	788.4	1215.4	1623.5	1018.6
70°	84.1	83.7	77.3	69.4	67.3	62.5	123.1	289.0	580.8	823.3	473.6
72.5°	74.4	74.6	71.5	61.2	55.9	43.7	57.0	84.4	173.4	224.3	111.0
75°	65.9	65.1	61.4	54.7	46.1	28.7	28.2	37.5	53.4	53.1	24.0
77.5°	47.7	46.9	48.1	44.9	35.4	18.7	14.2	18.1	21.6	21.0	6.6
80°	34.9	34.5	31.0	37.4	31.3	12.8	8.9	9.6	11.1	9.5	2.1
82.5°	24.0	23.7	21.9	20.8	17.7	7.7	5.5	6.0	7.2	5.3	1.1
85°	3.9	4.3	15.9	12.5	10.5	3.5	3.9	4.1	4.9	3.0	0.4
87.5°	0.0	0.0	7.4	6.6	2.1	1.3	2.2	2.4	2.4	1.5	0.0
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°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	825.1	807.8	776.0	743.0	712.5	676.2	651.2	632.3	610.7	604.7	617.6
5°	830.8	798.1	729.6	655.0	584.8	507.2	447.6	400.6	358.1	343.6	356.6
7.5°	839.6	791.2	679.5	556.6	434.6	313.2	230.2	175.6	140.8	130.4	136.0
10°	848.7	781.3	621.4	440.1	273.3	152.5	99.3	79.3	71.9	70.2	71.1
12.5°	856.1	767.8	550.5	312.9	146.2	81.7	64.9	61.8	60.6	60.6	61.1
15°	860.5	747.5	466.6	199.1	84.1	61.8	56.8	55.7	55.7	55.9	56.1
17.5°	860.0	721.7	374.9	120.5	62.9	54.6	51.7	50.8	50.7	51.1	51.2
20°	853.7	687.9	282.5	79.4	54.7	49.8	46.9	45.4	45.2	45.5	45.9
22.5°	841.6	646.2	202.1	61.2	49.4	45.2	41.5	40.2	40.2	40.6	40.9
25°	826.9	595.1	138.2	51.8	44.6	40.2	36.7	35.6	35.8	36.7	36.9
27.5°	808.7	537.7	94.0	44.5	38.7	35.2	32.6	31.7	32.6	33.7	34.1
30°	793.1	478.0	67.1	38.4	32.9	30.4	28.7	28.7	30.0	32.2	32.8
32.5°	780.9	420.0	51.7	34.0	28.6	26.4	25.5	26.4	28.2	30.5	31.0
35°	779.4	372.3	43.7	30.4	25.5	23.3	22.9	24.4	26.4	28.0	28.4
37.5°	791.2	328.3	39.4	27.4	22.7	20.8	20.3	22.2	24.2	26.2	26.7
40°	813.9	293.7	36.3	24.7	20.5	18.2	17.5	19.0	21.5	24.3	25.1
42.5°	843.1	265.0	32.9	21.9	18.2	15.1	14.4	15.9	18.7	21.5	22.4
45°	871.0	240.3	29.1	18.8	15.4	11.7	11.4	13.5	14.8	17.7	18.4
47.5°	886.4	218.6	25.8	15.4	11.9	9.5	9.5	10.1	11.4	14.8	15.5
50°	881.1	201.3	22.4	11.4	8.3	7.2	7.2	7.0	9.2	11.9	12.3
52.5°	870.8	191.2	19.4	8.9	5.7	5.2	4.6	5.2	6.4	7.5	7.7
55°	869.3	189.5	16.2	7.0	4.0	3.5	2.5	2.5	2.5	2.4	2.1
57.5°	881.3	192.2	13.7	5.7	3.0	2.2	1.3	0.0	0.0	0.0	0.0
60°	893.9	195.2	11.7	4.0	2.1	1.2	0.2	0.0	0.0	0.0	0.0
62.5°	873.2	188.6	9.8	2.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0
65°	767.0	160.5	7.7	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	545.5	107.5	5.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	249.0	44.9	3.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	53.3	14.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.9	10.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)