

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: P400537

Luminaire Tested: **ARCH-L-PA3-90-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8340 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

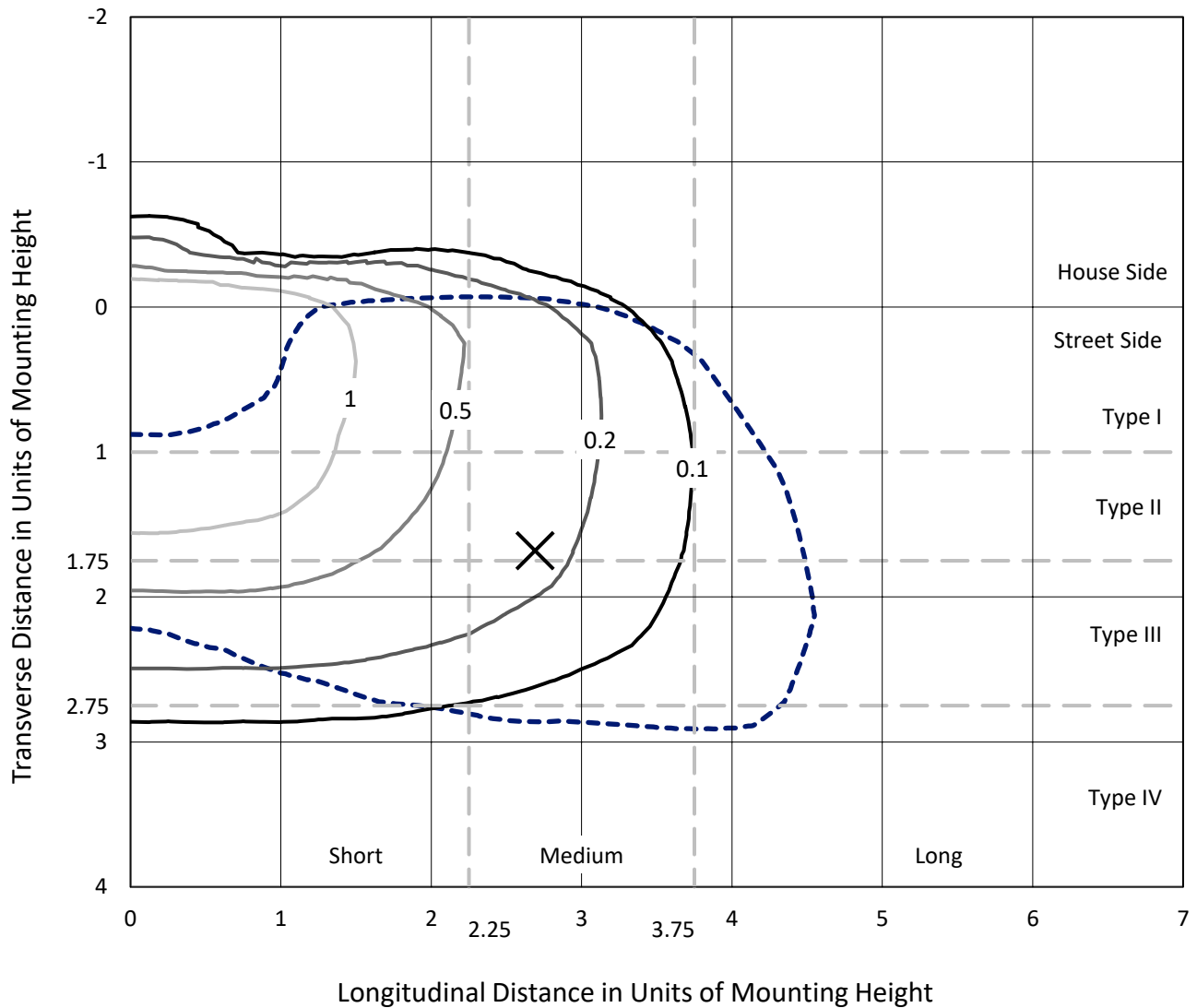
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

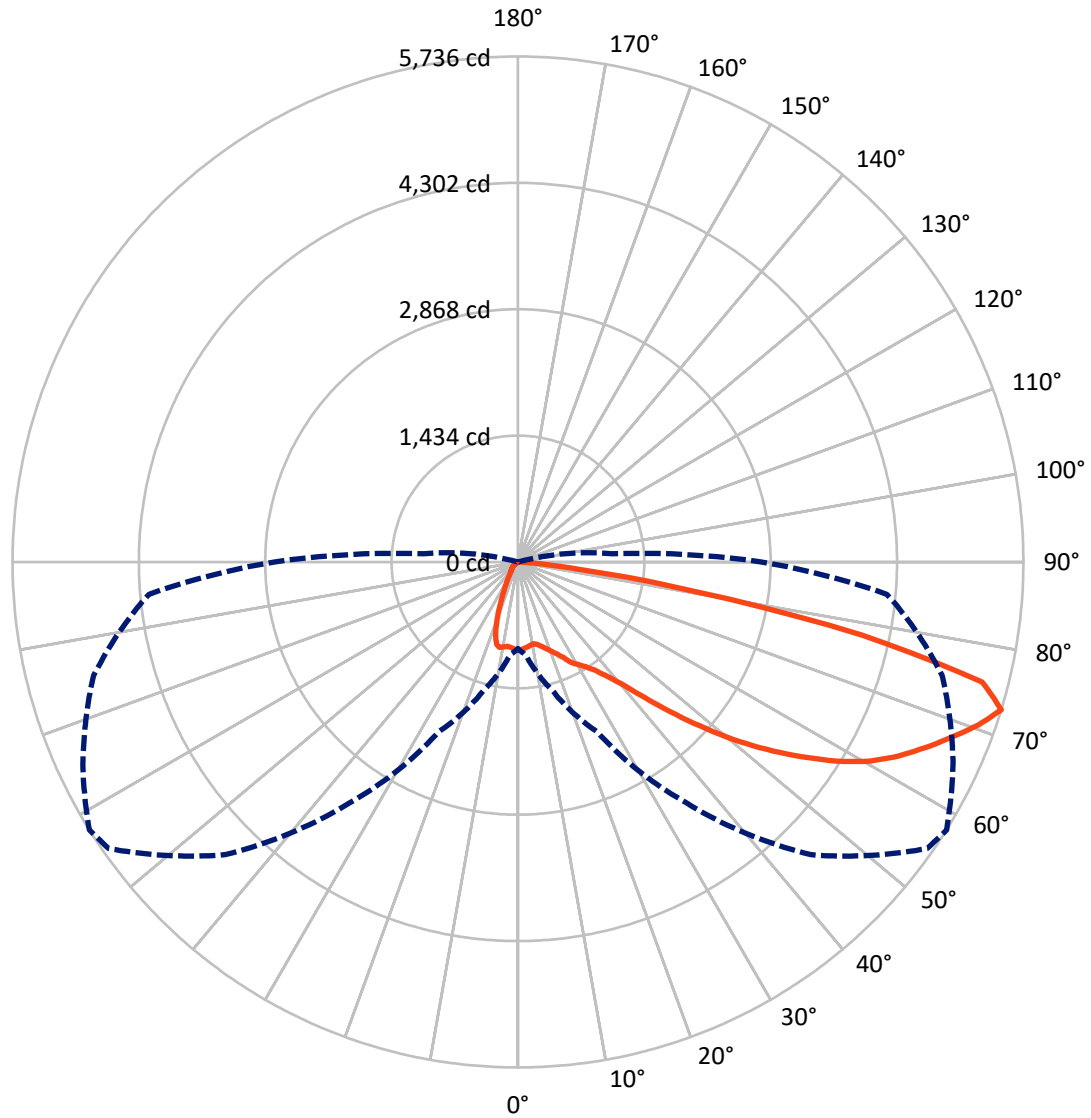
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	811.0	0.0	811.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	7529.0	0.0	7529.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	8340.0	0.0	8340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.1
10°-20°	239.2	2.9
20°-30°	375.8	4.5
30°-40°	648.1	7.8
40°-50°	1233.0	14.8
50°-60°	1952.7	23.4
60°-70°	2278.6	27.3
70°-80°	1427.1	17.1
80°-90°	93.7	1.1
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°	8340.0	100.0
0°-180°	8340.0	100.0

Coefficient of Utilization



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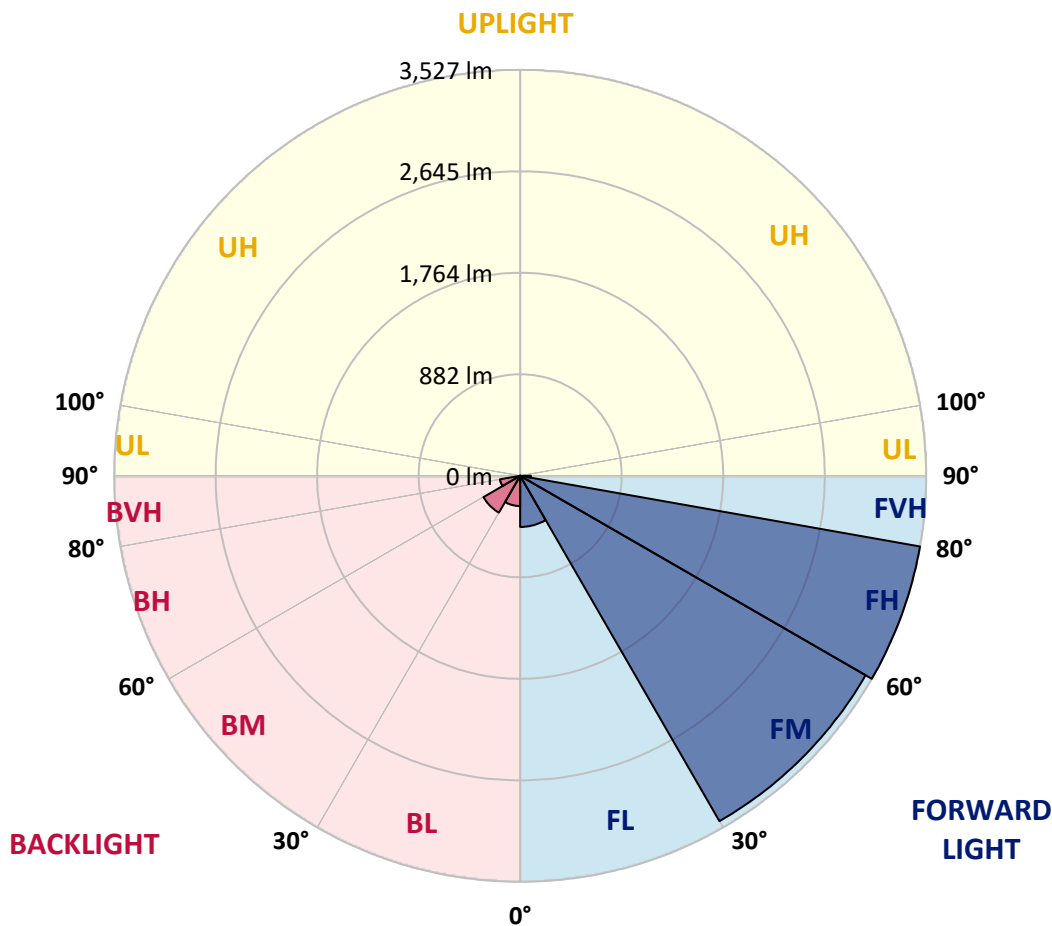
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.2	5.3			
FM (30°-60°)	3464.8	41.5			
FH (60°-80°)	3527.2	42.3			G2/5000
FVH (80°-90°)	92.8	1.1			G1/100
BL (0°-30°)	262.6	3.1	B1/500		
BM (30°-60°)	369.0	4.4	B1/1000		
BH (60°-80°)	178.5	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	996.3	991.8	990.3	988.8	990.3	991.8	987.3	991.8	988.8	990.3	993.3
5°	960.5	956.0	954.5	956.0	960.5	967.9	970.9	975.4	975.4	979.9	981.4
7.5°	920.2	917.2	915.7	918.7	927.7	944.1	953.0	959.0	965.0	973.9	982.9
10°	897.8	896.3	894.9	899.3	908.3	923.2	935.1	944.1	966.4	991.8	1008.2
12.5°	882.9	882.9	885.9	894.9	906.8	918.7	947.1	959.0	993.3	1032.1	1054.4
15°	871.0	871.0	875.5	891.9	908.3	936.6	978.4	991.8	1032.1	1079.8	1109.6
17.5°	862.0	865.0	868.0	884.4	915.7	963.5	1012.7	1032.1	1081.3	1133.5	1166.3
20°	863.5	866.5	868.0	884.4	929.2	994.8	1057.4	1079.8	1136.5	1191.7	1224.5
22.5°	872.5	877.0	878.5	900.8	953.0	1027.6	1108.1	1133.5	1194.6	1252.8	1278.2
25°	909.8	912.8	903.8	923.2	987.3	1078.3	1173.8	1200.6	1261.7	1315.4	1336.3
27.5°	1036.5	1039.5	990.3	967.9	1014.2	1120.1	1254.3	1291.6	1367.6	1403.4	1406.4
30°	1311.0	1313.9	1217.0	1111.1	1078.3	1155.9	1299.0	1351.2	1449.7	1489.9	1472.0
32.5°	1664.4	1661.5	1528.7	1372.1	1230.4	1218.5	1363.2	1418.3	1525.7	1564.5	1551.1
35°	2019.4	2023.9	1910.5	1674.9	1472.0	1336.3	1445.2	1509.3	1639.1	1694.3	1670.4
37.5°	2262.5	2292.3	2243.1	1988.1	1768.8	1554.1	1577.9	1646.5	1809.1	1883.7	1833.0
40°	2605.5	2598.1	2478.8	2290.8	2096.9	1876.2	1792.7	1825.5	2011.9	2111.9	2032.8
42.5°	3066.4	3051.5	2848.6	2665.2	2448.9	2268.5	2098.4	2092.5	2244.6	2360.9	2246.1
45°	3484.0	3461.6	3322.9	3145.4	2908.3	2701.0	2471.3	2419.1	2525.0	2623.4	2489.2
47.5°	3816.6	3779.3	3680.8	3586.9	3528.7	3206.6	2862.1	2783.0	2836.7	2909.8	2720.4
50°	4210.3	4107.4	3964.2	3907.5	4028.4	3779.3	3237.9	3161.8	3158.8	3200.6	2959.0
52.5°	4389.3	4202.8	4122.3	4170.0	4383.3	4311.7	3643.6	3534.7	3491.4	3495.9	3181.2
55°	4173.0	4152.1	4195.4	4344.5	4623.4	4581.7	4032.8	3898.6	3834.5	3753.9	3394.5
57.5°	3926.9	3991.1	4162.6	4447.4	4927.7	4863.6	4416.1	4264.0	4146.2	3961.2	3631.6
60°	3700.2	3765.9	4049.2	4471.3	5094.7	5135.0	4735.3	4590.6	4416.1	4173.0	3892.6
62.5°	3355.7	3406.4	3804.6	4437.0	5021.6	5293.1	4957.5	4848.6	4686.1	4374.4	4192.4
65°	2967.9	3000.8	3394.5	4162.6	4878.5	5275.2	5141.0	5079.8	4921.7	4584.7	4489.2
67.5°	2542.9	2581.7	2909.8	3668.9	4598.1	5191.7	5314.0	5308.0	5127.5	4817.3	4704.0
70°	2053.7	2056.7	2328.1	3042.5	4108.9	5024.6	5528.7	5542.2	5324.4	4991.8	4712.9
72.5°	982.9	1063.4	1509.3	2123.8	3339.3	4696.5	5668.9	5736.0	5448.2	4985.8	4204.3
75°	225.2	232.7	440.0	1009.7	1958.2	3604.8	5318.4	5443.7	5146.9	4311.7	2962.0
77.5°	82.0	86.5	123.8	295.3	753.2	1862.8	3806.1	3989.6	3804.6	2787.5	1400.5
80°	55.2	53.7	64.1	131.2	346.0	528.0	1946.3	2055.2	1876.2	951.5	335.6
82.5°	28.3	29.8	44.7	73.1	232.7	183.4	650.3	706.9	581.7	190.9	62.6
85°	13.4	13.4	25.4	46.2	98.4	64.1	144.7	174.5	156.6	83.5	20.9
87.5°	13.4	13.4	23.9	29.8	50.7	26.8	35.8	44.7	41.8	44.7	7.5
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°	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	993.3	991.8	990.3	993.3	991.8	994.8	994.8	997.8	997.8	994.8	993.3
5°	979.9	976.9	973.9	973.9	972.4	975.4	984.3	991.8	993.3	988.8	987.3
7.5°	981.4	981.4	978.4	972.4	962.0	962.0	962.0	970.9	975.4	972.4	970.9
10°	1008.2	1009.7	1002.2	988.8	970.9	954.5	923.2	877.0	833.7	821.8	817.3
12.5°	1054.4	1055.9	1041.0	1017.2	979.9	882.9	763.6	653.2	568.2	544.4	539.9
15°	1109.6	1111.1	1084.3	1045.5	932.1	706.9	529.5	404.2	329.6	311.7	310.2
17.5°	1166.3	1163.3	1123.0	1048.5	790.5	501.1	322.1	258.0	238.6	234.2	235.6
20°	1221.5	1212.5	1157.3	993.3	608.5	328.1	235.6	220.7	216.3	213.3	213.3
22.5°	1272.2	1254.3	1185.7	884.4	426.5	235.6	210.3	207.3	201.3	196.9	195.4
25°	1322.9	1297.5	1203.6	742.7	286.4	205.8	198.4	192.4	184.9	179.0	177.5
27.5°	1384.0	1348.3	1194.6	563.8	214.8	190.9	184.9	176.0	165.5	156.6	153.6
30°	1442.2	1401.9	1143.9	389.3	183.4	176.0	167.0	153.6	140.2	129.8	126.8
32.5°	1515.3	1469.1	1052.9	255.0	159.6	153.6	144.7	128.3	110.4	98.4	95.5
35°	1619.7	1567.5	936.6	179.0	140.2	129.8	117.8	99.9	80.5	71.6	70.1
37.5°	1765.9	1695.8	790.5	144.7	123.8	108.9	91.0	73.1	59.7	52.2	50.7
40°	1944.8	1837.4	627.9	128.3	110.4	91.0	68.6	52.2	43.3	37.3	37.3
42.5°	2138.7	1970.2	462.3	117.8	96.9	74.6	50.7	37.3	31.3	28.3	26.8
45°	2338.6	2088.0	311.7	108.9	85.0	56.7	35.8	25.4	20.9	20.9	19.4
47.5°	2545.9	2167.0	201.3	98.4	71.6	41.8	23.9	17.9	14.9	14.9	14.9
50°	2751.7	2208.8	143.2	89.5	58.2	28.3	17.9	13.4	11.9	11.9	11.9
52.5°	2900.8	2182.0	114.8	77.6	44.7	20.9	13.4	10.4	8.9	8.9	8.9
55°	3030.6	2135.7	99.9	67.1	32.8	14.9	10.4	8.9	7.5	7.5	7.5
57.5°	3163.3	2076.1	89.5	56.7	23.9	10.4	7.5	6.0	6.0	6.0	6.0
60°	3284.1	1974.7	77.6	44.7	16.4	7.5	6.0	4.5	4.5	4.5	4.5
62.5°	3402.0	1888.1	67.1	34.3	11.9	6.0	3.0	3.0	1.5	1.5	1.5
65°	3469.1	1771.8	53.7	22.4	7.5	4.5	1.5	1.5	0.0	0.0	0.0
67.5°	3448.2	1633.1	37.3	13.4	4.5	3.0	1.5	0.0	0.0	0.0	0.0
70°	3303.5	1446.7	22.4	7.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	2766.6	1070.8	13.4	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1847.9	492.2	7.5	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	845.6	147.7	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.0	38.8	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	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)