

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: P399320

Luminaire Tested: **ARCH-L-PA3-120-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10822 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

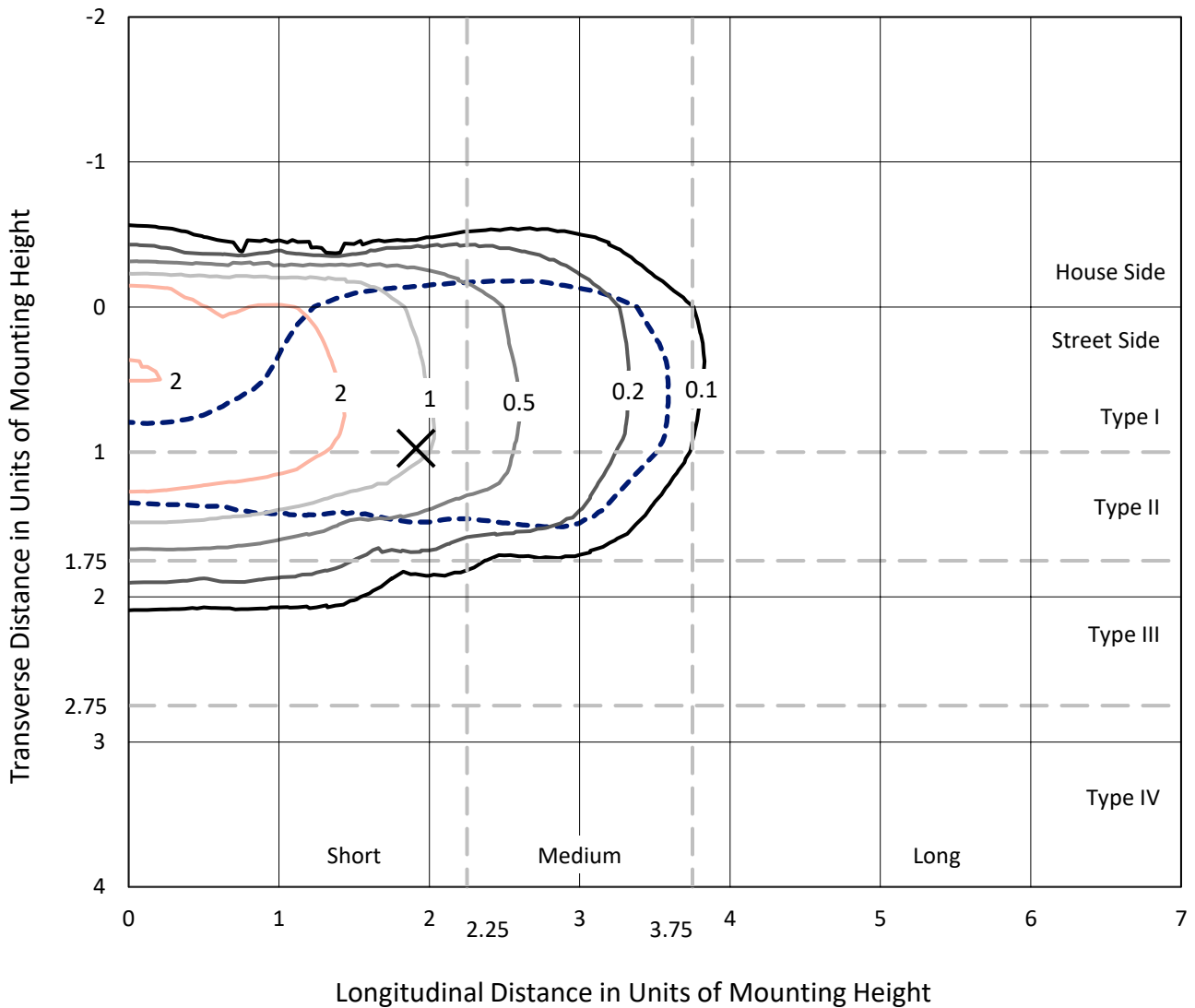
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

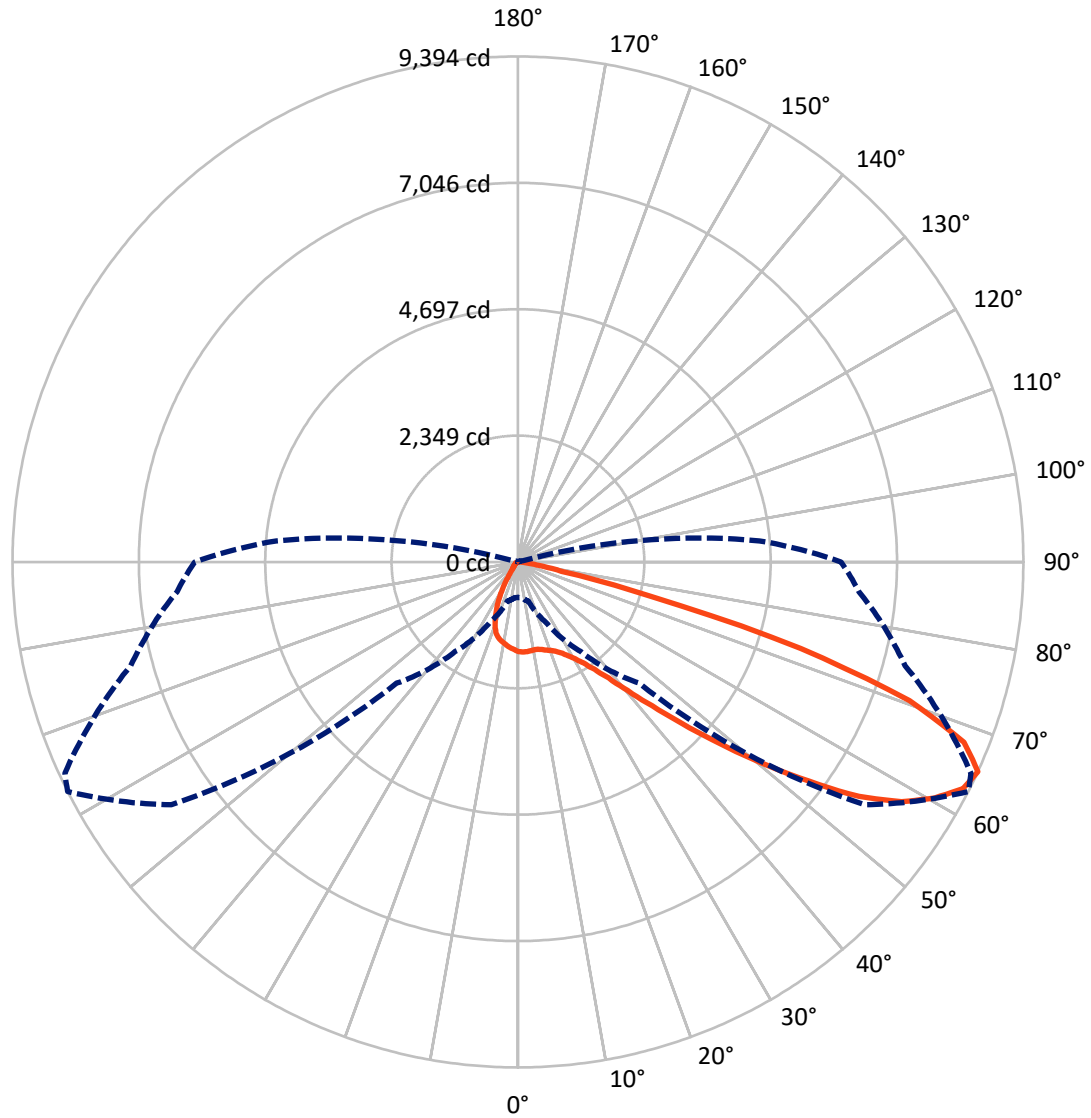
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.8	0.0	1392.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9429.2	0.0	9429.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	10822.0	0.0	10822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	1.4
10°-20°	375.3	3.5
20°-30°	556.2	5.1
30°-40°	1032.8	9.5
40°-50°	2187.8	20.2
50°-60°	3025.2	28.0
60°-70°	2421.8	22.4
70°-80°	1006.2	9.3
80°-90°	64.6	0.6
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°	10822.0	100.0
0°-180°	10822.0	100.0

Coefficient of Utilization

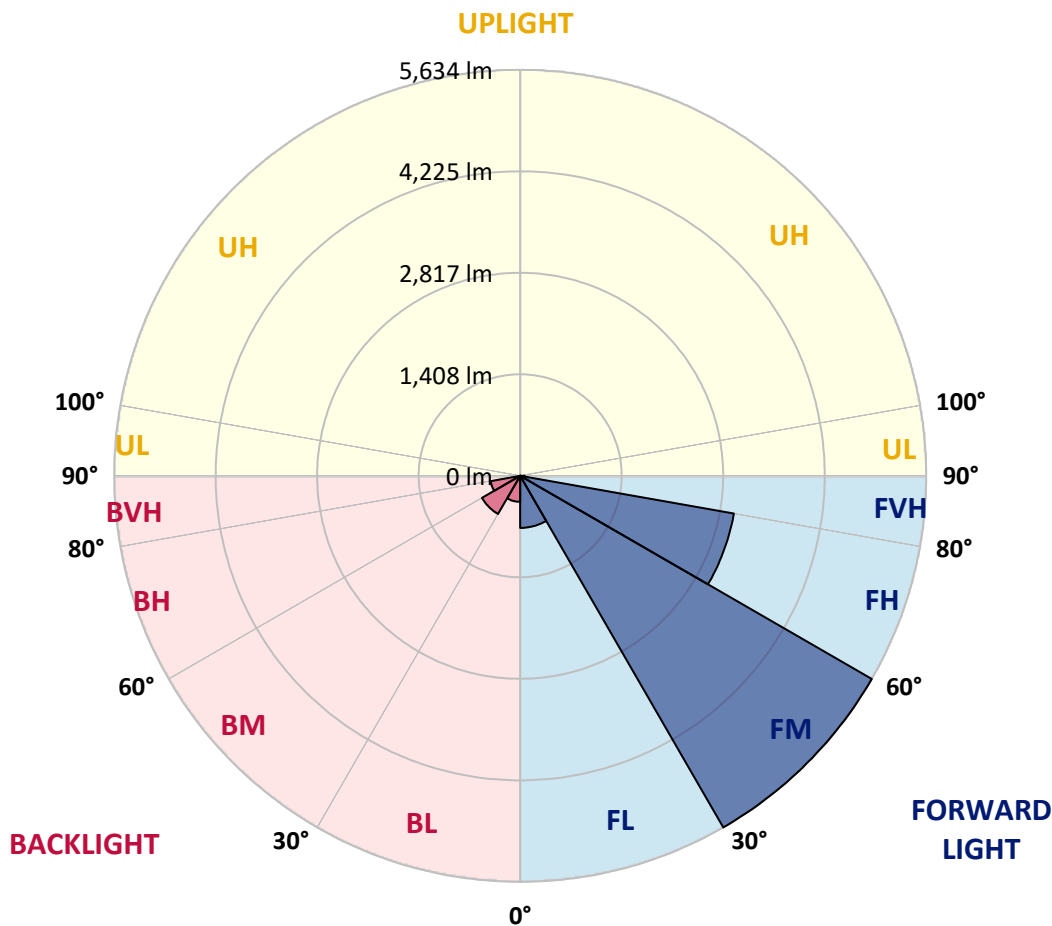


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.7	6.7			
FM (30°-60°)	5634.0	52.1			
FH (60°-80°)	3010.9	27.8			G2/5000
FVH (80°-90°)	61.7	0.6			G1/100
BL (0°-30°)	361.0	3.3	B1/500		
BM (30°-60°)	611.8	5.7	B1/1000		
BH (60°-80°)	417.0	3.9	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1
2.5°	1695.7	1691.7	1687.6	1685.5	1685.5	1683.5	1675.3	1673.3	1669.2	1665.1	1661.0
5°	1679.4	1673.3	1671.2	1673.3	1675.3	1679.4	1675.3	1675.3	1671.2	1667.1	1659.0
7.5°	1638.5	1634.4	1636.5	1642.6	1644.7	1659.0	1661.0	1667.1	1667.1	1663.0	1656.9
10°	1589.5	1587.5	1587.5	1597.7	1607.9	1628.3	1642.6	1659.0	1661.0	1661.0	1650.8
12.5°	1552.7	1550.7	1556.8	1569.1	1589.5	1616.1	1640.6	1665.1	1669.2	1671.2	1654.9
15°	1530.3	1530.3	1538.4	1562.9	1591.5	1628.3	1656.9	1689.6	1693.7	1691.7	1669.2
17.5°	1509.8	1511.9	1528.2	1569.1	1601.8	1650.8	1685.5	1722.3	1724.3	1722.3	1685.5
20°	1501.6	1505.7	1530.3	1583.4	1620.1	1675.3	1720.3	1757.0	1759.1	1750.9	1701.9
22.5°	1524.1	1526.2	1556.8	1614.0	1648.7	1710.0	1767.2	1802.0	1804.0	1791.8	1726.4
25°	1601.8	1601.8	1628.3	1677.4	1708.0	1769.3	1830.6	1871.4	1871.4	1857.1	1781.5
27.5°	1783.6	1767.2	1761.1	1775.4	1785.6	1851.0	1916.4	1967.5	1965.4	1945.0	1853.1
30°	2135.0	2094.1	2028.8	1955.2	1918.4	1963.4	2024.7	2090.0	2088.0	2055.3	1940.9
32.5°	2725.4	2666.2	2510.9	2316.8	2159.5	2108.4	2165.6	2237.1	2239.2	2200.4	2081.9
35°	3552.9	3458.9	3181.0	2911.4	2551.8	2357.7	2374.0	2451.7	2476.2	2455.8	2318.9
37.5°	4349.7	4263.9	3998.3	3624.4	3136.1	2739.7	2670.3	2737.7	2766.3	2766.3	2621.2
40°	5152.6	5052.5	4817.5	4441.6	3926.8	3336.3	3087.1	3142.2	3172.9	3179.0	2989.0
42.5°	5796.2	5730.8	5551.0	5258.8	4776.7	4382.4	3687.7	3657.1	3685.7	3663.2	3416.0
45°	6241.5	6190.5	6065.8	5955.5	5720.6	5522.4	4490.6	4284.3	4302.7	4225.0	3896.1
47.5°	6333.5	6276.3	6249.7	6402.9	6570.5	6619.5	5477.4	5030.0	5011.6	4840.0	4394.6
50°	5933.0	5939.2	6037.2	6474.4	7173.2	7614.5	6621.5	5871.7	5804.3	5422.3	4858.4
52.5°	5068.8	5166.9	5414.1	6123.0	7357.1	8337.7	7765.7	6764.6	6660.4	5988.2	5205.7
55°	3965.6	4092.2	4498.8	5314.0	6973.0	8660.5	8730.0	7692.1	7455.1	6413.2	5475.4
57.5°	2948.1	2987.0	3460.9	4204.6	6063.8	8343.8	9224.4	8407.2	8102.8	6752.3	5743.0
60°	1836.7	1861.2	2361.8	3201.5	4592.8	7173.2	9224.4	8899.6	8609.4	7056.7	5988.2
62.5°	1142.1	1150.2	1338.2	2194.2	3121.8	5320.1	8842.4	9281.6	9048.7	7275.3	6198.6
65°	657.9	666.0	753.9	1240.1	2030.8	3185.1	7865.8	9394.0	9289.8	7449.0	6362.1
67.5°	480.1	484.2	518.9	696.7	1328.0	1636.5	5908.5	8942.5	9073.2	7534.8	6358.0
70°	416.8	422.9	467.9	543.5	958.2	1005.2	3007.4	7722.8	8088.5	7412.2	6168.0
72.5°	320.8	328.9	396.4	510.8	702.8	723.2	1088.9	5495.8	6049.5	6646.1	5647.0
75°	220.7	228.8	296.2	420.9	580.2	541.4	598.6	2529.3	3191.3	4458.0	4298.6
77.5°	141.0	143.0	185.9	306.5	500.5	384.1	410.7	825.4	1158.4	2016.5	2028.8
80°	94.0	96.0	114.4	198.2	343.2	355.5	253.3	382.1	418.8	588.4	408.6
82.5°	57.2	57.2	77.6	124.6	208.4	294.2	165.5	200.2	214.5	226.8	106.2
85°	22.5	22.5	47.0	81.7	130.8	136.9	104.2	116.5	122.6	132.8	49.0
87.5°	6.1	6.1	26.6	44.9	57.2	63.3	63.3	57.2	61.3	75.6	24.5
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°	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1	1667.1
2.5°	1659.0	1652.8	1644.7	1636.5	1628.3	1622.2	1616.1	1616.1	1612.0	1605.8	1601.8
5°	1654.9	1644.7	1626.3	1612.0	1589.5	1573.2	1560.9	1550.7	1544.6	1530.3	1528.2
7.5°	1648.7	1636.5	1609.9	1581.3	1544.6	1515.9	1487.3	1466.9	1446.5	1430.1	1426.1
10°	1638.5	1624.2	1585.4	1544.6	1493.5	1440.4	1372.9	1295.3	1223.8	1182.9	1170.7
12.5°	1638.5	1620.1	1569.1	1513.9	1440.4	1309.6	1138.0	966.4	833.6	774.3	758.0
15°	1648.7	1624.2	1556.8	1481.2	1344.3	1078.7	800.9	574.1	429.0	384.1	373.9
17.5°	1659.0	1624.2	1538.4	1436.3	1168.6	782.5	455.6	302.4	255.4	245.2	245.2
20°	1663.0	1620.1	1513.9	1352.5	933.7	486.2	271.7	226.8	208.4	202.3	202.3
22.5°	1679.4	1622.2	1495.5	1232.0	678.3	286.0	214.5	190.0	171.6	165.5	165.5
25°	1720.3	1646.7	1499.6	1078.7	435.2	216.6	181.8	157.3	138.9	130.8	130.8
27.5°	1785.6	1701.9	1522.1	901.0	273.8	185.9	153.2	126.7	112.4	104.2	104.2
30°	1859.2	1763.2	1532.3	696.7	204.3	157.3	124.6	100.1	89.9	83.8	81.7
32.5°	1987.9	1869.4	1524.1	478.1	167.5	132.8	100.1	79.7	71.5	69.5	69.5
35°	2194.2	2055.3	1507.8	300.3	138.9	106.2	79.7	65.4	59.2	57.2	55.2
37.5°	2474.1	2327.0	1458.7	198.2	114.4	83.8	65.4	55.2	49.0	47.0	47.0
40°	2815.3	2637.6	1364.8	151.2	98.1	67.4	55.2	47.0	42.9	40.9	40.9
42.5°	3205.6	2982.9	1215.6	130.8	81.7	57.2	47.0	38.8	36.8	34.7	34.7
45°	3632.6	3344.5	1009.3	116.5	69.5	47.0	38.8	34.7	30.6	30.6	28.6
47.5°	4086.1	3708.1	776.4	102.2	59.2	40.9	34.7	28.6	26.6	24.5	24.5
50°	4523.3	4033.0	545.5	87.9	49.0	34.7	28.6	24.5	22.5	20.4	20.4
52.5°	4831.8	4229.1	386.1	75.6	40.9	30.6	22.5	18.4	16.3	16.3	16.3
55°	5079.0	4351.7	269.7	63.3	34.7	26.6	18.4	14.3	14.3	12.3	12.3
57.5°	5311.9	4431.4	198.2	53.1	28.6	20.4	14.3	10.2	10.2	8.2	8.2
60°	5553.0	4474.3	151.2	42.9	24.5	16.3	10.2	8.2	6.1	6.1	6.1
62.5°	5796.2	4500.9	116.5	34.7	20.4	12.3	8.2	6.1	4.1	2.0	2.0
65°	6008.6	4509.0	89.9	26.6	16.3	8.2	6.1	2.0	0.0	0.0	0.0
67.5°	6072.0	4415.0	69.5	20.4	12.3	6.1	4.1	0.0	0.0	0.0	0.0
70°	5900.4	4165.8	53.1	16.3	10.2	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	5236.4	3493.6	40.9	10.2	8.2	4.1	2.0	0.0	0.0	0.0	0.0
75°	3747.0	1863.3	28.6	8.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1724.3	721.2	20.4	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
80°	337.1	179.8	8.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.6	30.6	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.6	10.2	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.1	2.0	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)