

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: P399383

Luminaire Tested: **ARCH-L-PA3-130-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399383
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-PA3-130-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 575mA 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: 10731 lumens
Efficiency: N/A
Efficacy: 80.7 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

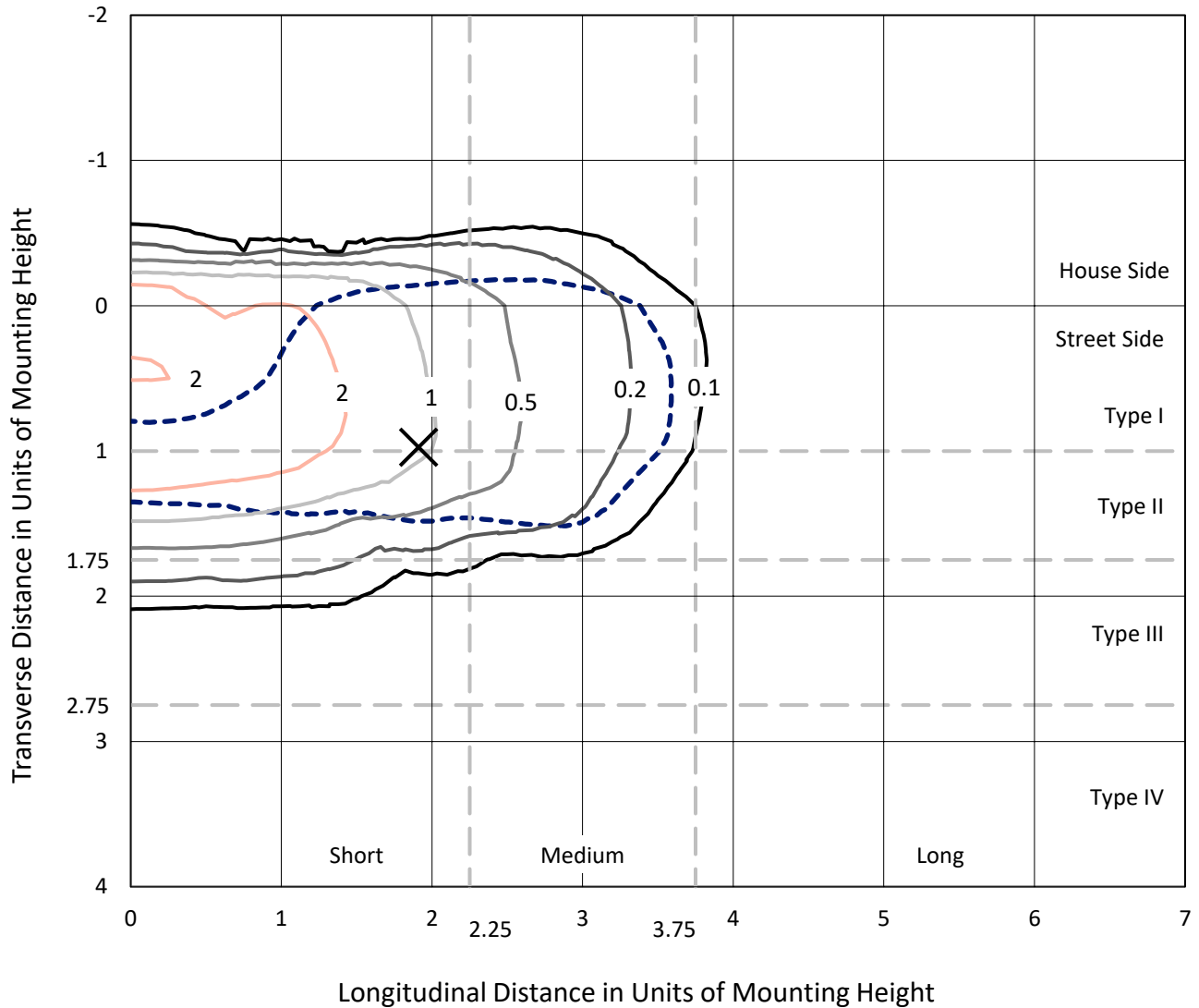
Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

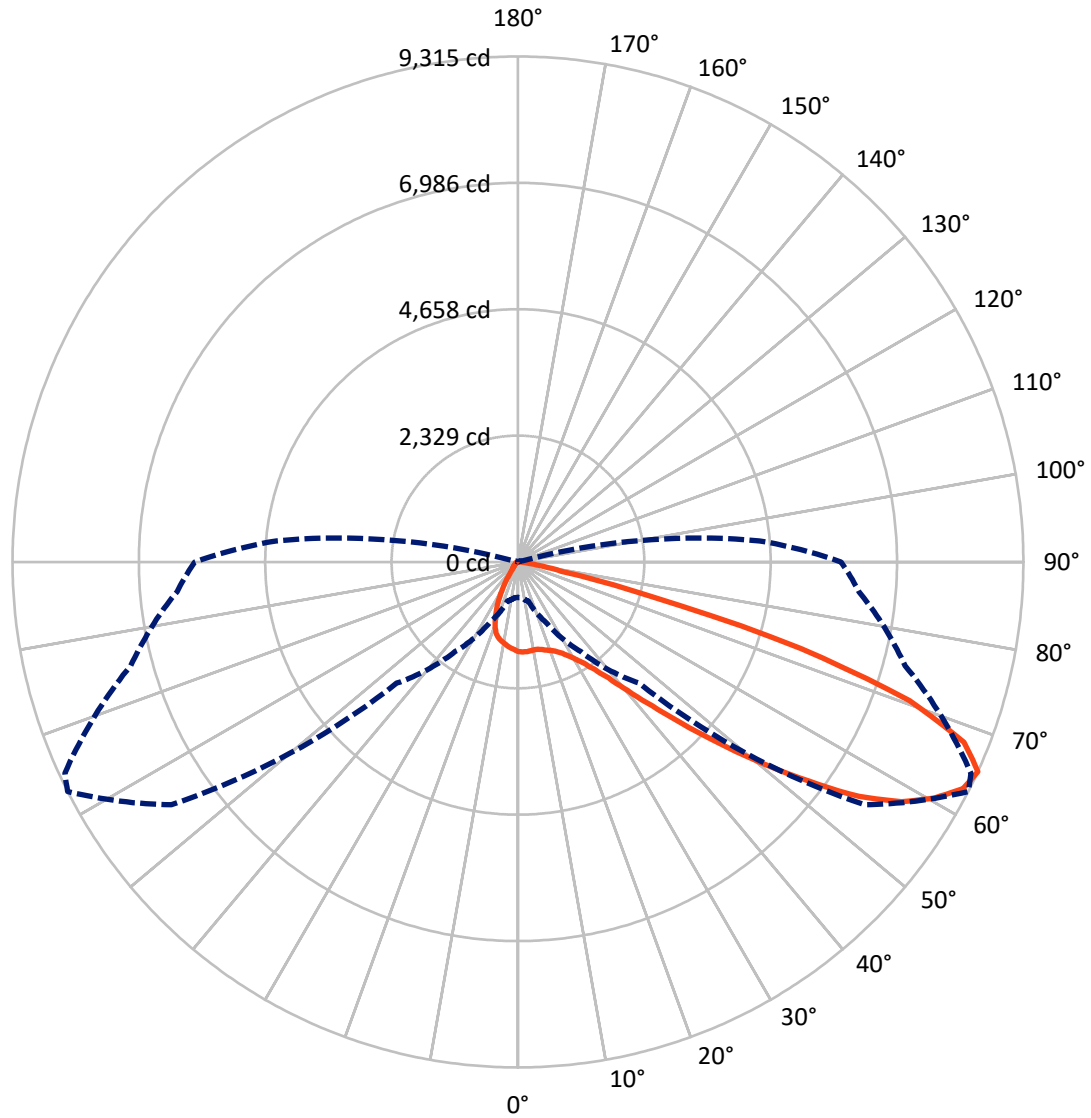
✕ Max cd
 - - - 1/2 Max cd



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	1381.1	0.0	1381.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9349.9	0.0	9349.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	10731.0	0.0	10731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.4
10°-20°	372.1	3.5
20°-30°	551.5	5.1
30°-40°	1024.1	9.5
40°-50°	2169.4	20.2
50°-60°	2999.8	28.0
60°-70°	2401.4	22.4
70°-80°	997.7	9.3
80°-90°	64.1	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°	10731.0	100.0
0°-180°	10731.0	100.0

Coefficient of Utilization

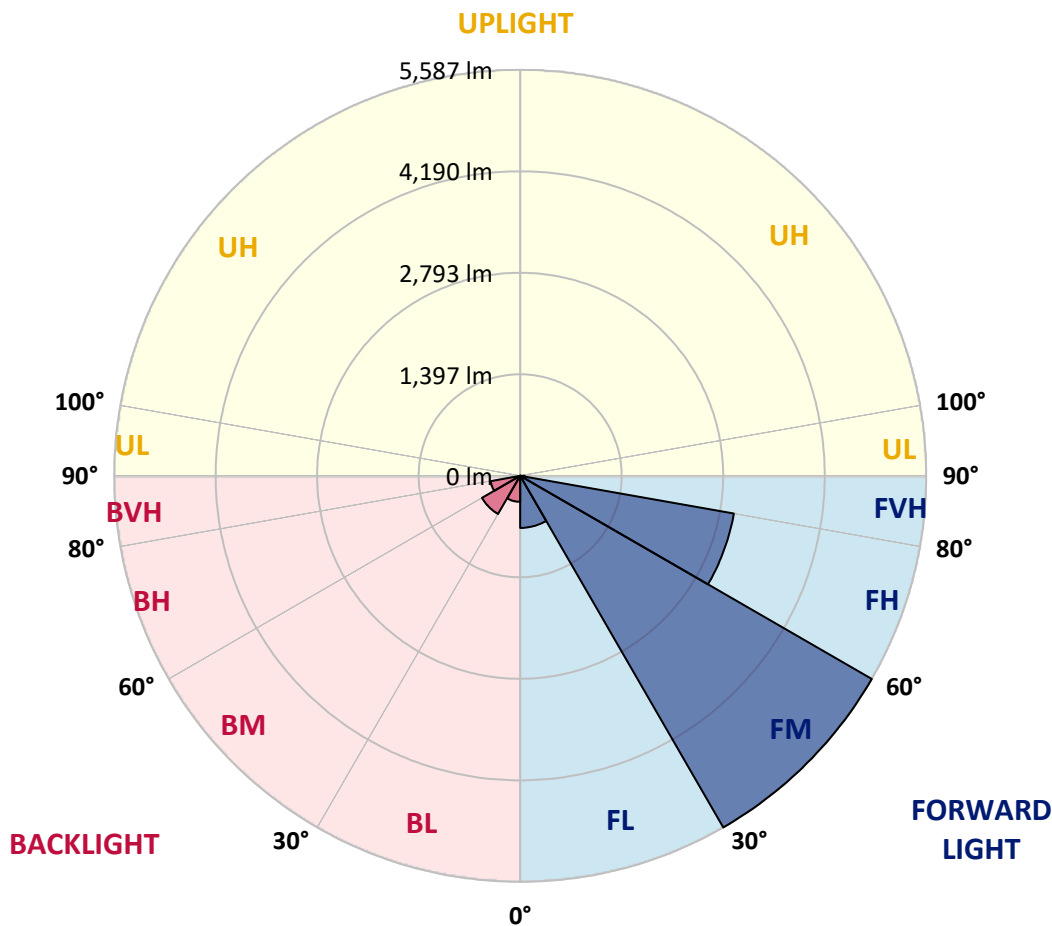


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.6	6.7			
FM (30°-60°)	5586.6	52.1			
FH (60°-80°)	2985.6	27.8			G2/5000
FVH (80°-90°)	61.1	0.6			G1/100
BL (0°-30°)	357.9	3.3	B1/500		
BM (30°-60°)	606.7	5.7	B1/1000		
BH (60°-80°)	413.5	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°	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1
2.5°	1681.5	1677.4	1673.4	1671.3	1671.3	1669.3	1661.2	1659.2	1655.1	1651.1	1647.0
5°	1665.3	1659.2	1657.2	1659.2	1661.2	1665.3	1661.2	1661.2	1657.2	1653.1	1645.0
7.5°	1624.8	1620.7	1622.7	1628.8	1630.8	1645.0	1647.0	1653.1	1653.1	1649.1	1643.0
10°	1576.1	1574.1	1574.1	1584.2	1594.4	1614.6	1628.8	1645.0	1647.0	1647.0	1636.9
12.5°	1539.7	1537.6	1543.7	1555.9	1576.1	1602.5	1626.8	1651.1	1655.1	1657.2	1641.0
15°	1517.4	1517.4	1525.5	1549.8	1578.2	1614.6	1643.0	1675.4	1679.5	1677.4	1655.1
17.5°	1497.1	1499.1	1515.4	1555.9	1588.3	1636.9	1671.3	1707.8	1709.8	1707.8	1671.3
20°	1489.0	1493.1	1517.4	1570.1	1606.5	1661.2	1705.8	1742.3	1744.3	1736.2	1687.6
22.5°	1511.3	1513.3	1543.7	1600.4	1634.9	1695.7	1752.4	1786.8	1788.9	1776.7	1711.9
25°	1588.3	1588.3	1614.6	1663.2	1693.6	1754.4	1815.2	1855.7	1855.7	1841.5	1766.6
27.5°	1768.6	1752.4	1746.3	1760.5	1770.6	1835.4	1900.3	1950.9	1948.9	1928.6	1837.5
30°	2117.0	2076.5	2011.7	1938.8	1902.3	1946.9	2007.6	2072.5	2070.4	2038.0	1924.6
32.5°	2702.5	2643.8	2489.8	2297.3	2141.4	2090.7	2147.4	2218.3	2220.4	2181.9	2064.4
35°	3523.0	3429.8	3154.3	2886.9	2530.3	2337.9	2354.1	2431.1	2455.4	2435.1	2299.4
37.5°	4313.1	4228.0	3964.6	3593.9	3109.7	2716.7	2647.8	2714.7	2743.0	2743.0	2599.2
40°	5109.3	5010.0	4777.0	4404.3	3893.7	3308.3	3061.1	3115.8	3146.2	3152.3	2963.9
42.5°	5747.4	5682.6	5504.3	5214.6	4736.5	4345.5	3656.7	3626.3	3654.7	3632.4	3387.3
45°	6189.1	6138.4	6014.8	5905.4	5672.5	5475.9	4452.9	4248.3	4266.5	4189.5	3863.3
47.5°	6280.2	6223.5	6197.2	6349.1	6515.2	6563.8	5431.4	4987.7	4969.5	4799.3	4357.7
50°	5883.1	5889.2	5986.5	6420.0	7112.9	7550.4	6565.9	5822.4	5755.5	5376.7	4817.5
52.5°	5026.2	5123.4	5368.6	6071.6	7295.2	8267.6	7700.4	6707.7	6604.4	5937.8	5161.9
55°	3932.2	4057.8	4461.0	5269.3	6914.3	8587.7	8656.6	7627.4	7392.4	6359.2	5429.4
57.5°	2923.3	2961.8	3431.8	4169.3	6012.8	8273.7	9146.8	8336.5	8034.6	6695.5	5694.7
60°	1821.3	1845.6	2341.9	3174.6	4554.2	7112.9	9146.8	8824.7	8537.0	6997.4	5937.8
62.5°	1132.5	1140.6	1326.9	2175.8	3095.5	5275.4	8768.0	9203.6	8972.6	7214.2	6146.5
65°	652.3	660.4	747.5	1229.7	2013.7	3158.3	7799.6	9315.0	9211.7	7386.4	6308.6
67.5°	476.1	480.1	514.6	690.8	1316.8	1622.7	5858.8	8867.3	8996.9	7471.4	6304.5
70°	413.3	419.4	463.9	538.9	950.1	996.7	2982.1	7657.8	8020.5	7349.9	6116.1
72.5°	318.1	326.2	393.0	506.5	696.9	717.2	1079.8	5449.6	5998.6	6590.2	5599.5
75°	218.8	226.9	293.8	417.3	575.3	536.9	593.6	2508.0	3164.4	4420.5	4262.4
77.5°	139.8	141.8	184.4	303.9	496.3	380.9	407.2	818.5	1148.7	1999.5	2011.7
80°	93.2	95.2	113.4	196.5	340.3	352.5	251.2	378.8	415.3	583.5	405.2
82.5°	56.7	56.7	77.0	123.6	206.6	291.7	164.1	198.5	212.7	224.9	105.3
85°	22.3	22.3	46.6	81.0	129.7	135.7	103.3	115.5	121.6	131.7	48.6
87.5°	6.1	6.1	26.3	44.6	56.7	62.8	62.8	56.7	60.8	75.0	24.3
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°	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1
2.5°	1645.0	1638.9	1630.8	1622.7	1614.6	1608.5	1602.5	1602.5	1598.4	1592.3	1588.3
5°	1641.0	1630.8	1612.6	1598.4	1576.1	1559.9	1547.8	1537.6	1531.6	1517.4	1515.4
7.5°	1634.9	1622.7	1596.4	1568.0	1531.6	1503.2	1474.8	1454.6	1434.3	1418.1	1414.1
10°	1624.8	1610.6	1572.1	1531.6	1480.9	1428.2	1361.4	1284.4	1213.5	1173.0	1160.8
12.5°	1624.8	1606.5	1555.9	1501.2	1428.2	1298.6	1128.4	958.2	826.6	767.8	751.6
15°	1634.9	1610.6	1543.7	1468.8	1333.0	1069.7	794.1	569.3	425.4	380.9	370.7
17.5°	1645.0	1610.6	1525.5	1424.2	1158.8	775.9	451.8	299.8	253.2	243.1	243.1
20°	1649.1	1606.5	1501.2	1341.1	925.8	482.2	269.4	224.9	206.6	200.6	200.6
22.5°	1665.3	1608.5	1482.9	1221.6	672.6	283.6	212.7	188.4	170.2	164.1	164.1
25°	1705.8	1632.9	1487.0	1069.7	431.5	214.7	180.3	156.0	137.8	129.7	129.7
27.5°	1770.6	1687.6	1509.3	893.4	271.5	184.4	151.9	125.6	111.4	103.3	103.3
30°	1843.5	1748.3	1519.4	690.8	202.6	156.0	123.6	99.3	89.1	83.1	81.0
32.5°	1971.2	1853.7	1511.3	474.1	166.1	131.7	99.3	79.0	70.9	68.9	68.9
35°	2175.8	2038.0	1495.1	297.8	137.8	105.3	79.0	64.8	58.8	56.7	54.7
37.5°	2453.3	2307.5	1446.5	196.5	113.4	83.1	64.8	54.7	48.6	46.6	46.6
40°	2791.7	2615.4	1353.3	149.9	97.2	66.9	54.7	46.6	42.5	40.5	40.5
42.5°	3178.6	2957.8	1205.4	129.7	81.0	56.7	46.6	38.5	36.5	34.4	34.4
45°	3602.0	3316.4	1000.8	115.5	68.9	46.6	38.5	34.4	30.4	30.4	28.4
47.5°	4051.8	3677.0	769.8	101.3	58.8	40.5	34.4	28.4	26.3	24.3	24.3
50°	4485.3	3999.1	540.9	87.1	48.6	34.4	28.4	24.3	22.3	20.3	20.3
52.5°	4791.2	4193.6	382.9	75.0	40.5	30.4	22.3	18.2	16.2	16.2	16.2
55°	5036.3	4315.1	267.4	62.8	34.4	26.3	18.2	14.2	14.2	12.2	12.2
57.5°	5267.3	4394.1	196.5	52.7	28.4	20.3	14.2	10.1	10.1	8.1	8.1
60°	5506.3	4436.7	149.9	42.5	24.3	16.2	10.1	8.1	6.1	6.1	6.1
62.5°	5747.4	4463.0	115.5	34.4	20.3	12.2	8.1	6.1	4.1	2.0	2.0
65°	5958.1	4471.1	89.1	26.3	16.2	8.1	6.1	2.0	0.0	0.0	0.0
67.5°	6020.9	4377.9	68.9	20.3	12.2	6.1	4.1	0.0	0.0	0.0	0.0
70°	5850.7	4130.8	52.7	16.2	10.1	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	5192.3	3464.3	40.5	10.1	8.1	4.1	2.0	0.0	0.0	0.0	0.0
75°	3715.5	1847.6	28.4	8.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1709.8	715.1	20.3	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
80°	334.3	178.3	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.0	30.4	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.3	10.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	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)