

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: P482427

Luminaire Tested: **IFLD-M-SA4A-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482427
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

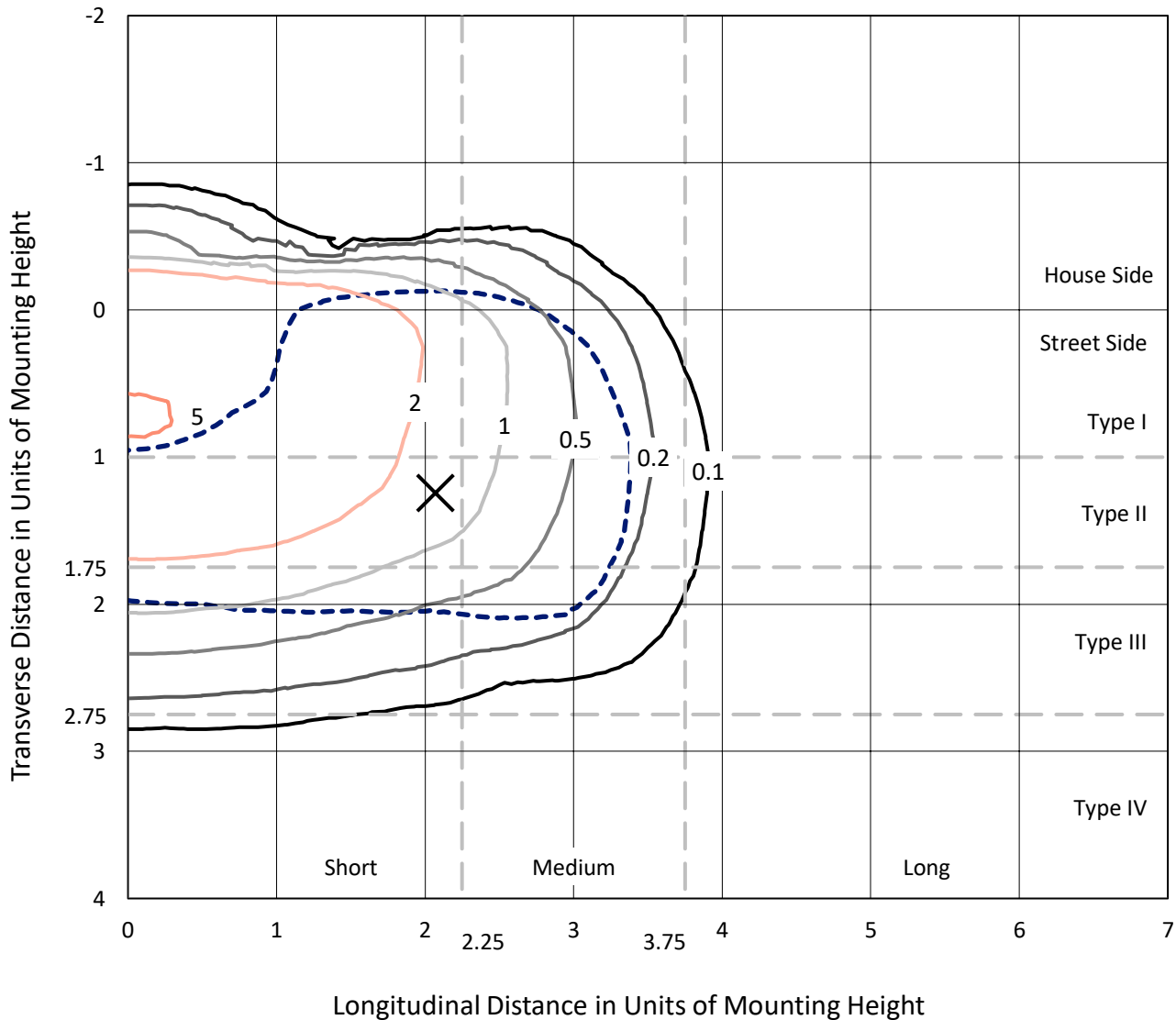
Lumens per Lamp: N/A
Luminaire Lumens: 13515.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

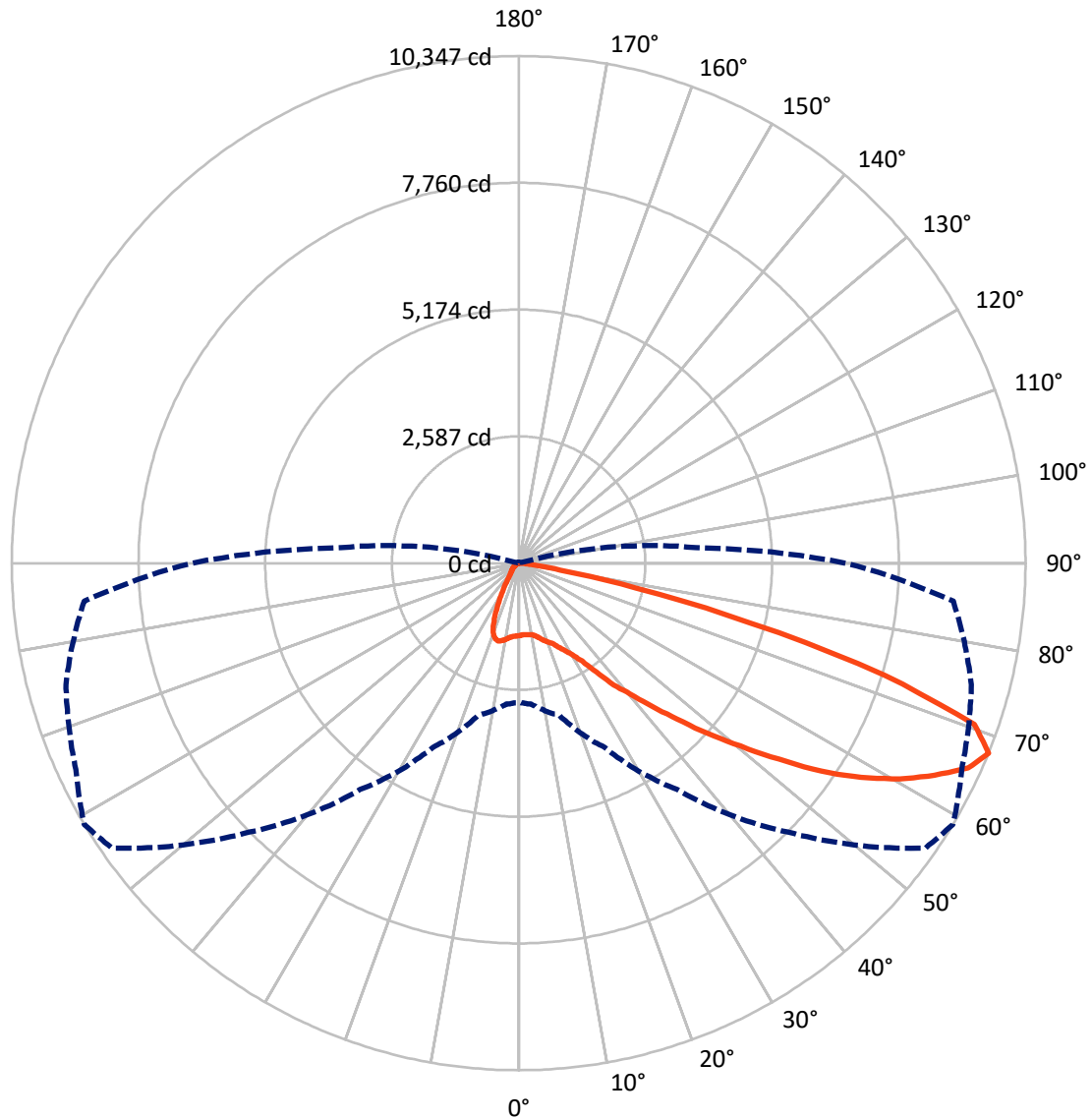
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1587.6	0.0	1587.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	11927.9	0.0	11927.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	13515.5	0.0	13515.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.0
10°-20°	406.7	3.0
20°-30°	710.9	5.3
30°-40°	1251.6	9.3
40°-50°	2212.5	16.4
50°-60°	3503.1	25.9
60°-70°	3885.9	28.8
70°-80°	1348.3	10.0
80°-90°	55.5	0.4
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°	13515.5	100.0
0°-180°	13515.5	100.0

Coefficient of Utilization

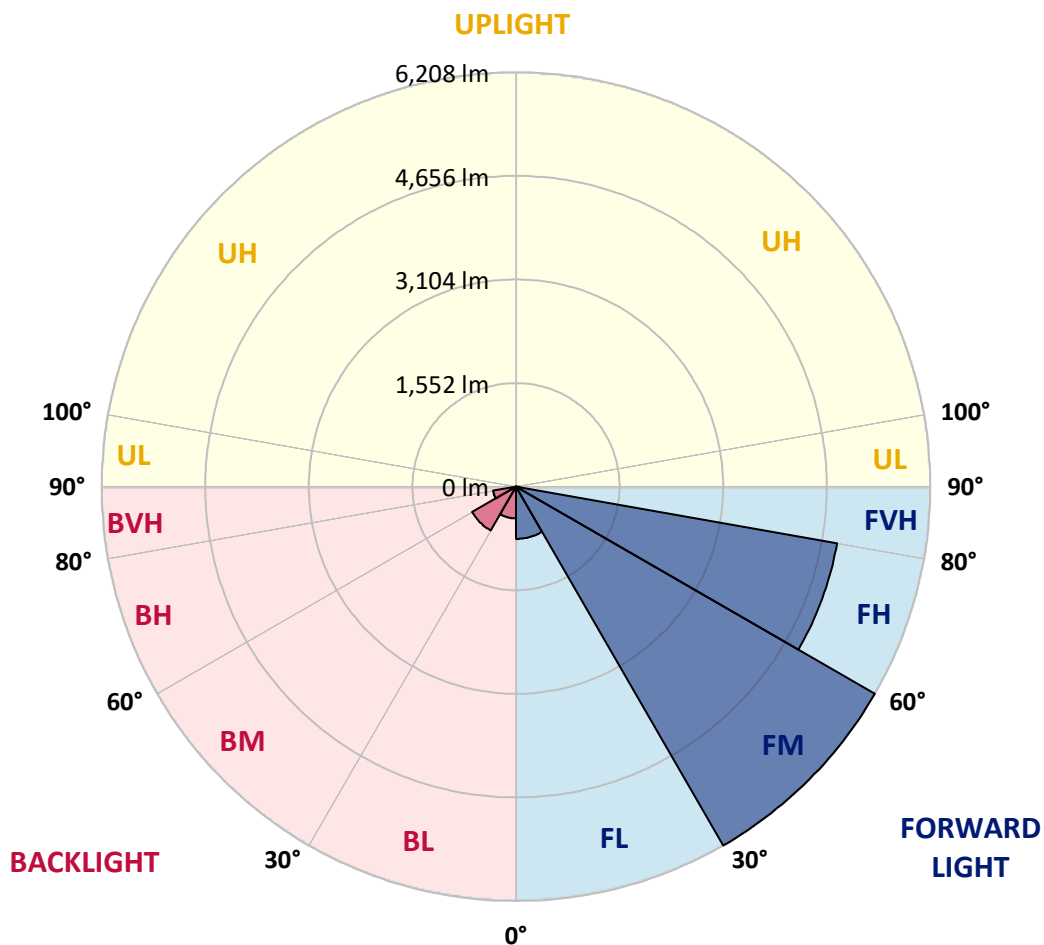


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.7	5.8			
FM (30°-60°)	6208.2	45.9			
FH (60°-80°)	4885.1	36.1			G2/5000
FVH (80°-90°)	51.9	0.4			G1/100
BL (0°-30°)	475.8	3.5	B1/500		
BM (30°-60°)	759.1	5.6	B1/1000		
BH (60°-80°)	349.1	2.6	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1439.5	1418.9	1437.6	1439.5	1441.3	1458.1	1476.8	1463.7	1461.9	1476.8	1489.9
5°	1381.6	1372.3	1394.7	1405.9	1424.5	1439.5	1469.3	1471.2	1473.1	1489.9	1512.3
7.5°	1357.3	1334.9	1361.1	1374.1	1387.2	1422.7	1458.1	1476.8	1502.9	1523.5	1545.9
10°	1308.8	1325.6	1333.0	1355.5	1392.8	1433.9	1476.8	1486.1	1544.0	1560.8	1615.0
12.5°	1325.6	1336.8	1351.7	1357.3	1398.4	1460.0	1517.9	1521.6	1581.4	1654.2	1682.2
15°	1368.5	1361.1	1366.7	1374.1	1422.7	1473.1	1566.4	1583.2	1639.2	1721.4	1790.5
17.5°	1460.0	1446.9	1437.6	1435.7	1446.9	1493.6	1603.8	1654.2	1706.4	1818.5	1853.9
20°	1689.6	1678.4	1641.1	1544.0	1510.4	1529.1	1648.6	1719.5	1792.3	1917.4	1975.3
22.5°	2038.8	2050.0	1962.2	1825.9	1685.9	1613.1	1719.5	1781.1	1896.9	2055.6	2107.9
25°	2451.4	2429.0	2322.6	2163.9	1943.6	1771.8	1833.4	1902.5	2044.4	2175.1	2195.6
27.5°	2774.4	2748.2	2666.1	2473.8	2283.4	2005.2	1982.8	2025.7	2193.7	2311.4	2289.0
30°	3093.6	3103.0	3047.0	2819.2	2583.9	2290.8	2148.9	2167.6	2296.4	2447.7	2397.2
32.5°	3500.6	3478.2	3446.5	3246.7	2968.5	2654.9	2412.2	2382.3	2438.3	2638.1	2578.3
35°	3879.7	3866.6	3823.6	3622.0	3379.3	3037.6	2800.5	2733.3	2720.2	2942.4	2837.9
37.5°	4210.1	4187.7	4122.4	3993.5	3758.3	3470.8	3211.3	3151.5	3149.6	3302.7	3101.1
40°	4488.3	4505.1	4497.6	4355.7	4226.9	3997.3	3599.6	3504.4	3496.9	3579.1	3461.4
42.5°	4848.6	4887.8	4867.3	4839.3	4684.3	4594.7	4144.8	3999.1	3933.8	4101.8	3995.4
45°	5393.8	5408.7	5421.8	5352.7	5197.8	5216.4	4708.6	4535.0	4518.2	4768.3	4529.4
47.5°	5903.5	5864.3	5955.8	5959.5	5952.0	5866.2	5317.3	5188.4	5210.8	5401.3	5154.8
50°	6030.4	6131.3	6383.3	6430.0	6551.3	6629.8	5993.1	5864.3	5901.6	6118.2	5836.3
52.5°	6129.4	6282.5	6534.5	6876.2	7202.9	7389.6	6749.2	6644.7	6642.8	6775.4	6387.0
55°	6303.0	6396.4	6614.8	7085.3	7707.0	8013.2	7660.4	7492.3	7341.1	7434.4	6958.4
57.5°	6286.2	6321.7	6661.5	7242.1	8106.6	8662.9	8409.0	8248.5	8054.3	8000.1	7615.5
60°	5991.2	6075.3	6456.1	7135.7	8353.0	9168.9	9107.3	8943.0	8608.8	8481.8	8119.6
62.5°	5406.9	5518.9	5817.6	6762.3	7994.5	9195.0	9589.0	9527.4	9154.0	8926.2	8776.8
65°	4381.9	4434.2	4777.7	5813.9	7184.3	8793.6	10158.4	10081.9	9738.3	9398.5	9114.8
67.5°	2837.9	2888.3	3218.7	4150.4	5642.1	7757.4	10136.0	10347.0	9975.4	9566.6	8903.8
70°	1340.5	1327.4	1635.5	2305.8	3614.5	5924.0	9450.8	9867.2	9551.6	8672.3	7395.2
72.5°	408.9	444.3	679.6	1021.3	1855.8	3694.8	7408.3	7798.5	7699.6	6928.5	4936.4
75°	181.1	196.0	267.0	418.2	752.4	1516.0	4576.0	4923.3	4880.4	4086.9	2253.5
77.5°	115.8	127.0	168.0	239.0	341.7	481.7	2107.9	2445.8	2371.1	1435.7	590.0
80°	82.1	87.7	119.5	164.3	214.7	197.9	726.3	862.6	827.1	390.2	158.7
82.5°	44.8	48.5	87.7	121.4	143.8	100.8	203.5	253.9	265.1	173.6	76.5
85°	16.8	20.5	54.1	85.9	74.7	46.7	59.7	72.8	95.2	95.2	35.5
87.5°	0.0	1.9	22.4	37.3	18.7	13.1	16.8	20.5	26.1	44.8	13.1
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°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1499.2	1486.1	1491.7	1501.1	1480.5	1491.7	1469.3	1486.1	1491.7	1469.3	1480.5
5°	1517.9	1530.9	1523.5	1508.5	1495.5	1499.2	1493.6	1480.5	1491.7	1495.5	1488.0
7.5°	1572.0	1557.1	1560.8	1544.0	1517.9	1516.0	1480.5	1471.2	1474.9	1478.7	1465.6
10°	1622.4	1631.8	1613.1	1600.0	1557.1	1529.1	1480.5	1428.3	1422.7	1400.3	1418.9
12.5°	1712.1	1689.6	1682.2	1639.2	1596.3	1502.9	1398.4	1318.1	1250.9	1226.6	1202.4
15°	1786.7	1783.0	1769.9	1704.6	1605.6	1435.7	1237.8	1051.1	922.3	842.0	830.8
17.5°	1889.4	1872.6	1848.3	1745.7	1536.6	1260.2	922.3	687.1	558.2	507.8	489.2
20°	1967.8	1954.8	1921.2	1736.3	1411.5	939.1	571.3	436.9	405.1	395.8	397.7
22.5°	2081.7	2040.6	1977.2	1689.6	1183.7	625.4	410.7	390.2	384.6	377.1	379.0
25°	2180.7	2143.3	2010.8	1609.4	843.9	414.5	380.9	369.7	360.3	351.0	349.1
27.5°	2268.4	2221.7	2046.2	1445.1	528.4	356.6	352.9	339.8	321.1	306.2	300.6
30°	2354.3	2300.2	2055.6	1137.0	356.6	323.0	313.7	293.1	268.8	248.3	244.6
32.5°	2498.1	2432.7	2042.5	812.2	308.1	287.5	267.0	242.7	207.2	190.4	186.7
35°	2722.1	2623.2	2025.7	478.0	276.3	253.9	222.2	190.4	164.3	147.5	143.8
37.5°	2979.8	2808.0	1977.2	319.3	253.9	224.0	183.0	151.2	128.8	115.8	112.0
40°	3362.5	3078.7	1790.5	261.4	225.9	190.4	147.5	119.5	102.7	93.4	89.6
42.5°	3784.4	3388.6	1502.9	235.2	199.8	162.4	117.6	97.1	84.0	74.7	74.7
45°	4290.4	3711.6	1159.4	214.7	177.4	134.4	97.1	78.4	67.2	59.7	56.0
47.5°	4854.2	4004.7	782.3	194.2	149.4	110.2	80.3	59.7	48.5	42.9	42.9
50°	5358.3	4264.3	498.5	169.9	130.7	91.5	65.3	48.5	39.2	31.7	29.9
52.5°	5815.7	4462.2	343.5	149.4	112.0	74.7	54.1	39.2	29.9	24.3	24.3
55°	6284.4	4563.0	253.9	128.8	97.1	63.5	44.8	35.5	26.1	20.5	18.7
57.5°	6669.0	4605.9	194.2	112.0	82.1	50.4	39.2	29.9	22.4	16.8	14.9
60°	6997.6	4585.4	151.2	93.4	65.3	42.9	33.6	24.3	18.7	13.1	11.2
62.5°	7189.9	4462.2	119.5	80.3	52.3	37.3	28.0	20.5	13.1	9.3	7.5
65°	7193.6	4200.8	93.4	59.7	39.2	31.7	24.3	16.8	9.3	3.7	1.9
67.5°	6678.3	3635.1	74.7	46.7	31.7	24.3	18.7	13.1	3.7	0.0	0.0
70°	5223.9	2750.1	61.6	37.3	26.1	20.5	13.1	7.5	1.9	0.0	0.0
72.5°	3328.9	1646.7	50.4	29.9	22.4	14.9	9.3	5.6	0.0	0.0	0.0
75°	1392.8	507.8	39.2	26.1	16.8	11.2	7.5	1.9	0.0	0.0	0.0
77.5°	358.5	160.6	31.7	22.4	16.8	9.3	5.6	1.9	0.0	0.0	0.0
80°	106.4	59.7	26.1	18.7	13.1	7.5	3.7	1.9	0.0	0.0	0.0
82.5°	48.5	35.5	22.4	16.8	11.2	7.5	3.7	0.0	0.0	0.0	0.0
85°	18.7	11.2	11.2	9.3	9.3	5.6	1.9	0.0	0.0	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	1.9	1.9	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)