

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: P481627

Luminaire Tested: **IFLD-S-SA3A-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481627
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

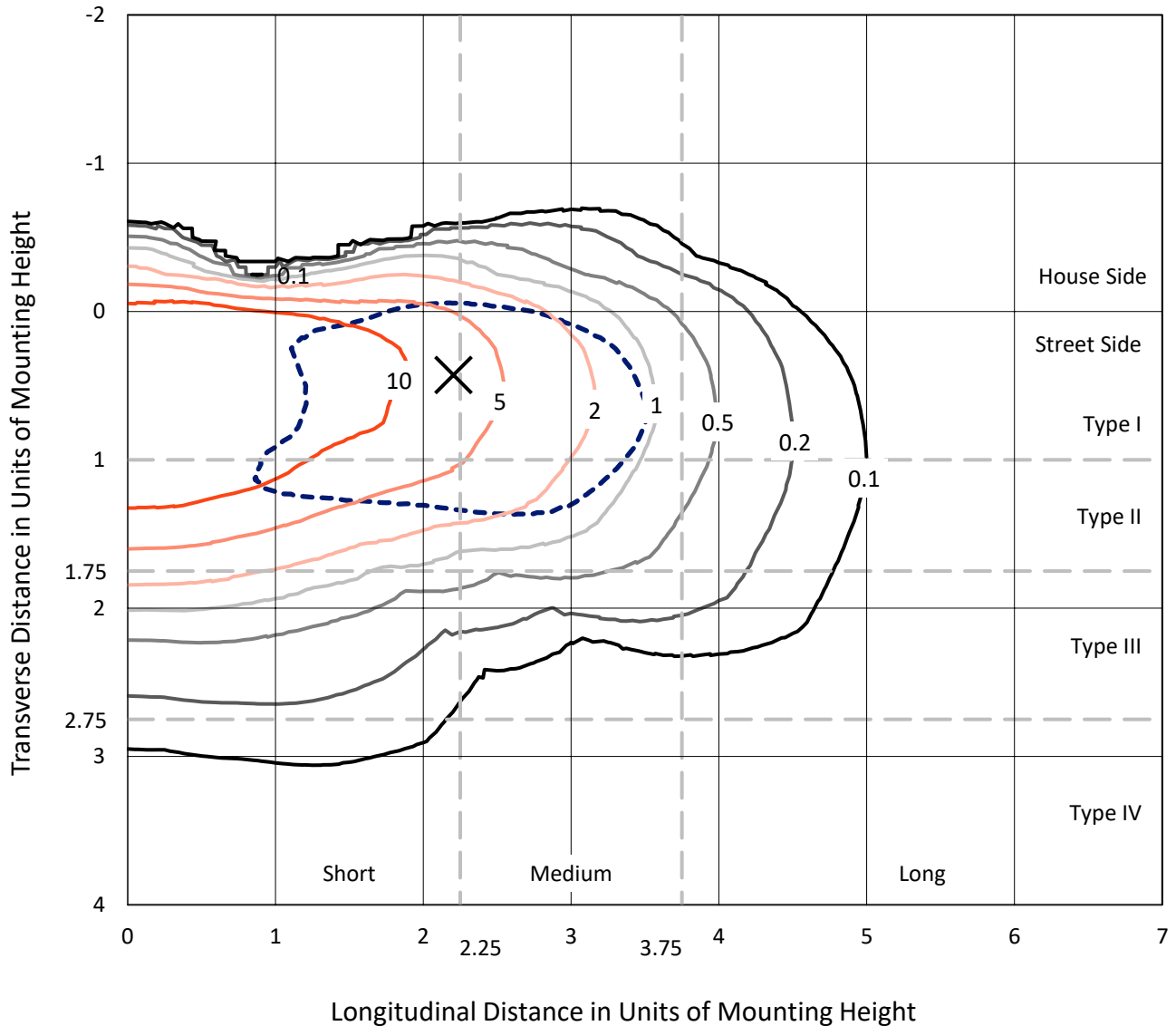
Lumens per Lamp: N/A
Luminaire Lumens: 9772.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

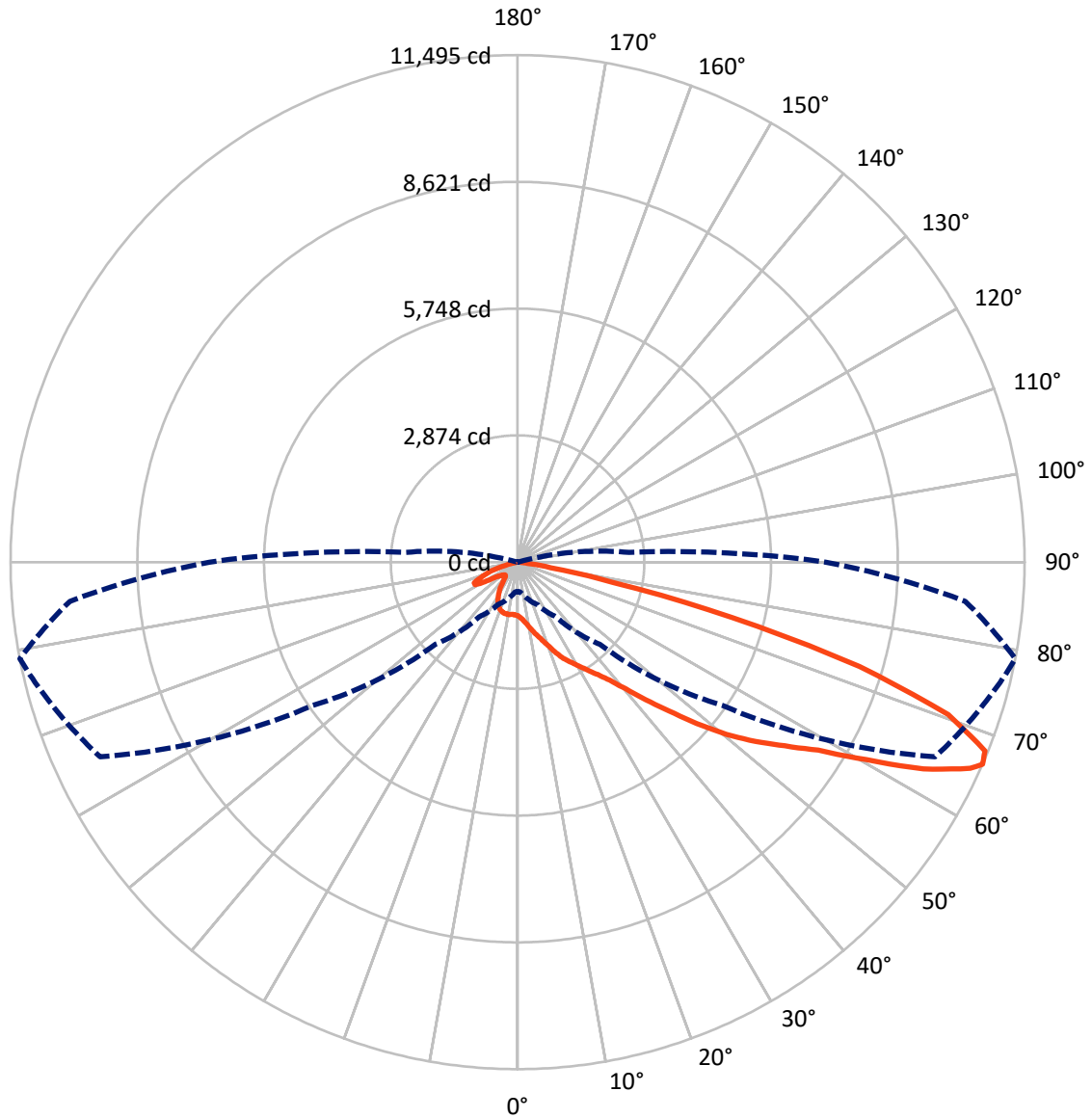
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.8	0.0	733.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9038.5	0.0	9038.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	9772.3	0.0	9772.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.2
10°-20°	316.4	3.2
20°-30°	525.7	5.4
30°-40°	902.9	9.2
40°-50°	1635.8	16.7
50°-60°	2585.7	26.5
60°-70°	2631.1	26.9
70°-80°	1003.4	10.3
80°-90°	56.3	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°	9772.3	100.0
0°-180°	9772.3	100.0



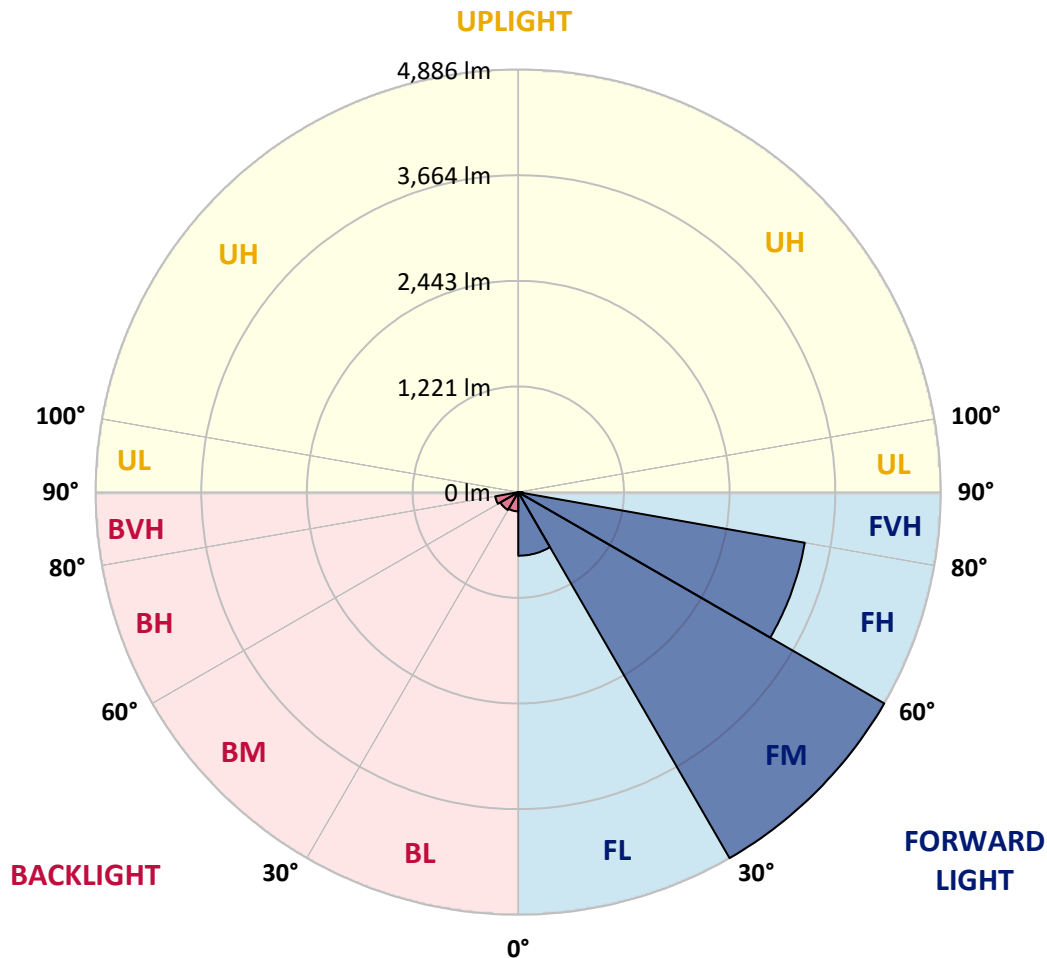
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.2	7.5			
FM (30°-60°)	4885.9	50.0			
FH (60°-80°)	3364.0	34.4			G2/5000
FVH (80°-90°)	53.4	0.5			G1/100
BL (0°-30°)	221.9	2.3	B1/500		
BM (30°-60°)	238.5	2.4	B1/1000		
BH (60°-80°)	270.5	2.8	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°	65°	75°	79°	85°
0°	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1377.0	1375.5	1369.5	1358.9	1345.4	1340.8	1321.3	1294.1	1279.1	1262.5	1255.0
5°	1471.9	1464.4	1482.5	1474.9	1477.9	1441.8	1417.7	1398.1	1340.8	1318.2	1282.1
7.5°	1493.0	1500.5	1499.0	1511.1	1523.1	1536.7	1520.1	1491.5	1434.2	1401.1	1361.9
10°	1493.0	1490.0	1502.0	1518.6	1553.3	1583.4	1628.6	1590.9	1547.2	1508.1	1437.3
12.5°	1465.9	1461.4	1473.4	1508.1	1569.8	1631.6	1681.3	1717.5	1655.7	1624.1	1532.2
15°	1383.0	1378.5	1428.2	1490.0	1571.3	1672.3	1776.2	1835.0	1792.8	1743.1	1640.6
17.5°	1280.6	1286.6	1339.3	1441.8	1571.3	1691.9	1824.4	1952.5	1946.5	1883.2	1776.2
20°	1245.9	1250.4	1303.2	1377.0	1524.6	1705.4	1899.8	2080.6	2116.7	2041.4	1901.3
22.5°	1312.2	1307.7	1312.2	1357.4	1493.0	1693.4	1949.5	2226.7	2291.5	2232.7	2065.5
25°	1538.2	1535.2	1497.5	1428.2	1474.9	1666.3	1975.1	2323.1	2472.3	2418.0	2198.1
27.5°	1869.6	1857.6	1798.8	1654.2	1559.3	1682.8	2017.3	2416.5	2630.4	2568.7	2317.1
30°	2225.2	2196.6	2119.7	1938.9	1777.7	1744.6	2041.4	2485.8	2806.7	2728.4	2421.0
32.5°	2470.8	2508.4	2484.3	2300.5	2053.4	1887.7	2080.6	2573.2	2969.4	2918.2	2598.8
35°	2850.4	2894.1	2793.2	2630.4	2381.9	2115.2	2163.4	2644.0	3219.5	3133.6	2764.5
37.5°	3329.5	3362.6	3290.3	2981.5	2719.3	2395.4	2333.7	2791.6	3434.9	3394.3	2977.0
40°	3570.5	3730.2	3627.8	3349.1	3067.3	2787.1	2615.4	2964.9	3810.1	3776.9	3270.7
42.5°	3903.5	3983.3	3930.6	3724.2	3430.4	3206.0	2963.4	3302.4	4265.1	4265.1	3668.5
45°	4256.0	4259.0	4256.0	4087.3	3826.7	3710.6	3433.4	3725.7	4754.7	4808.9	4144.5
47.5°	4545.3	4635.7	4628.1	4527.2	4325.3	4281.6	3903.5	4207.8	5369.4	5464.3	4608.6
50°	4694.4	4795.4	4825.5	4878.2	4869.2	4961.1	4417.2	4766.7	5899.7	6133.2	5205.2
52.5°	4653.8	4661.3	4846.6	5054.5	5385.9	5643.6	5036.4	5401.0	6520.4	6750.9	5666.2
55°	4320.8	4292.2	4673.3	4911.4	5596.9	6060.9	5893.7	6191.9	7004.0	7355.0	6142.2
57.5°	3590.1	3597.7	3950.2	4433.8	5440.2	6226.6	6809.6	7225.4	7681.9	8036.0	6811.1
60°	2478.3	2469.2	2864.0	3422.9	4519.7	5917.8	7336.9	8564.8	8588.9	9090.6	8011.9
62.5°	1393.6	1396.6	1696.4	2174.0	3162.3	4836.0	7311.3	9987.0	9884.5	10324.4	9376.8
65°	789.4	809.0	1015.4	1288.1	1893.7	3246.6	6288.4	10553.4	10883.4	11275.1	10205.4
66°	667.4	681.0	857.2	1063.6	1511.1	2633.5	5660.1	10443.5	11196.7	11495.0	10188.8
67.5°	516.7	534.8	682.5	843.7	1108.8	1822.9	4555.8	9896.6	11254.0	11428.7	9901.1
70°	354.0	366.1	479.1	640.3	757.8	932.6	2723.9	8182.1	10211.4	10359.1	8605.5
72.5°	248.6	254.6	336.0	485.1	583.0	533.3	1351.4	5821.3	7814.5	8102.3	6693.6
75°	179.3	185.3	230.5	348.0	455.0	349.5	619.2	3718.2	4792.4	5018.3	4031.5
77.5°	129.6	137.1	156.7	224.5	329.9	245.6	304.3	1942.0	2259.8	2220.7	1734.0
80°	78.3	85.9	116.0	144.6	241.0	173.3	167.2	810.5	801.5	760.8	545.4
82.5°	36.2	42.2	61.8	97.9	168.7	120.5	79.8	289.3	253.1	232.0	153.7
85°	10.5	13.6	36.2	73.8	85.9	58.8	48.2	99.4	104.0	88.9	51.2
87.5°	0.0	1.5	16.6	18.1	25.6	19.6	18.1	25.6	48.2	39.2	16.6
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°	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1227.8	1217.3	1191.7	1152.5	1117.9	1099.8	1074.2	1051.6	1039.5	1038.0	1036.5
5°	1258.0	1229.4	1167.6	1096.8	1044.0	986.8	947.6	919.0	891.9	866.3	881.3
7.5°	1298.7	1253.5	1152.5	1060.6	946.1	872.3	803.0	762.3	738.2	715.6	712.6
10°	1361.9	1304.7	1142.0	976.2	845.2	736.7	665.9	607.1	574.0	534.8	549.9
12.5°	1447.8	1345.4	1102.8	899.4	730.7	616.2	515.2	420.3	367.6	326.9	328.4
15°	1533.7	1399.6	1066.6	806.0	626.7	476.1	328.4	263.6	248.6	239.5	242.6
17.5°	1618.0	1443.3	1010.9	711.1	507.7	302.8	239.5	226.0	218.5	209.4	209.4
20°	1720.5	1471.9	941.6	623.7	349.5	224.5	204.9	195.9	183.8	171.7	173.3
22.5°	1819.9	1496.0	861.8	512.2	235.0	194.3	171.7	159.7	149.1	137.1	137.1
25°	1919.4	1503.5	757.8	367.6	189.8	155.2	134.1	117.5	107.0	96.4	97.9
27.5°	1987.1	1456.8	659.9	235.0	152.2	117.5	93.4	79.8	70.8	60.3	60.3
30°	2026.3	1371.0	554.4	165.7	114.5	79.8	55.7	42.2	33.1	25.6	24.1
32.5°	2065.5	1301.7	435.4	126.6	75.3	42.2	21.1	7.5	0.0	0.0	0.0
35°	2143.8	1223.3	292.3	70.8	25.6	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2193.5	1114.9	134.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2318.6	1060.6	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2522.0	1023.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2744.9	1007.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3041.7	1048.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3355.1	1158.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3698.6	1262.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3998.4	1387.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4549.8	1682.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5539.6	2262.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6654.5	2693.7	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7062.7	2683.2	28.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6990.4	2535.5	28.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6615.3	2252.3	25.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5681.2	1860.6	25.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4331.4	1449.3	24.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2613.9	771.4	19.6	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1041.0	271.2	15.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	281.7	81.4	9.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	73.8	30.1	7.5	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	28.6	12.1	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	4.5	3.0	3.0	1.5	1.5	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)