

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: P482388

Luminaire Tested: **IFLD-M-SA4A-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

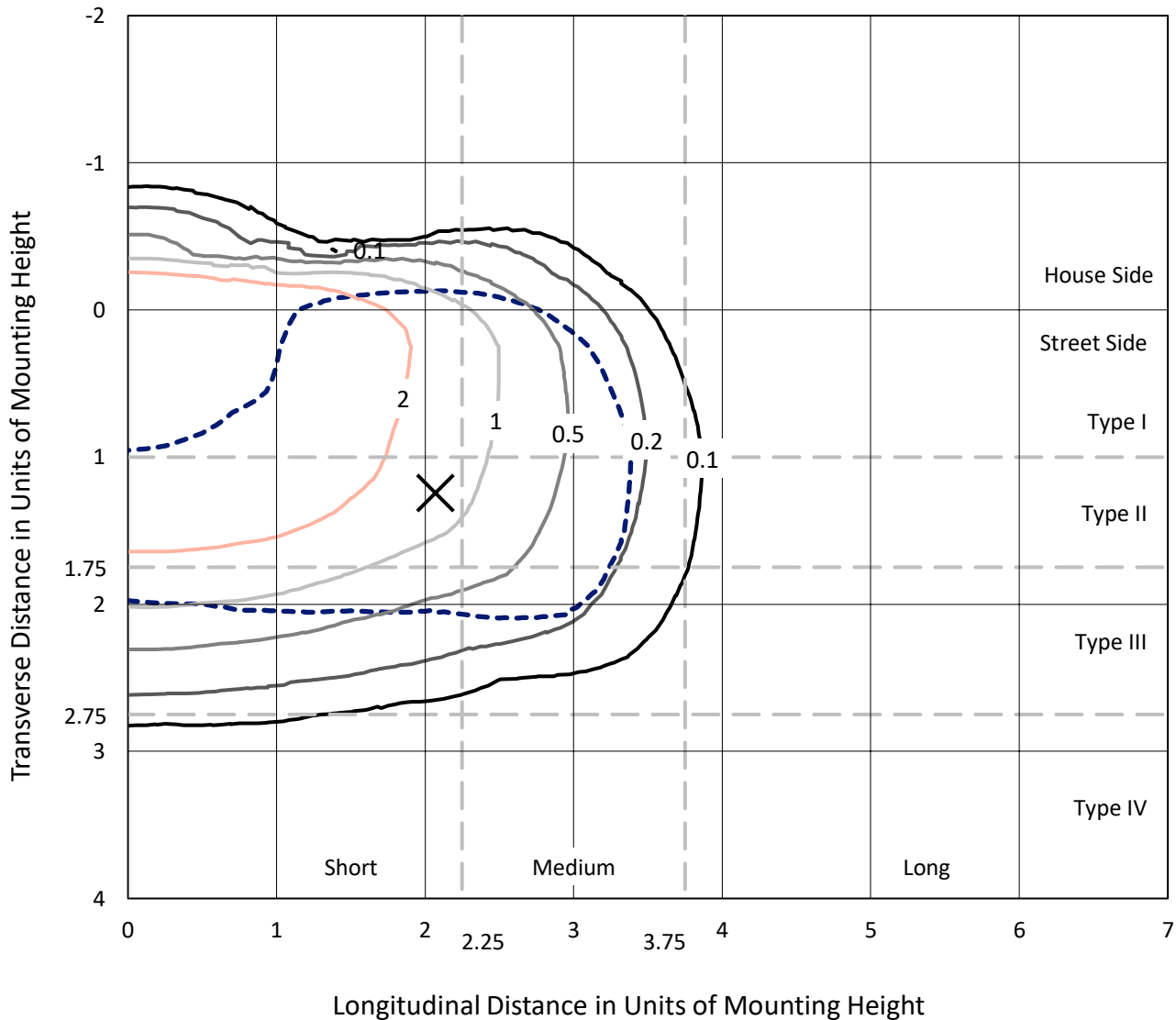
Lumens per Lamp: N/A
Luminaire Lumens: 12478.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

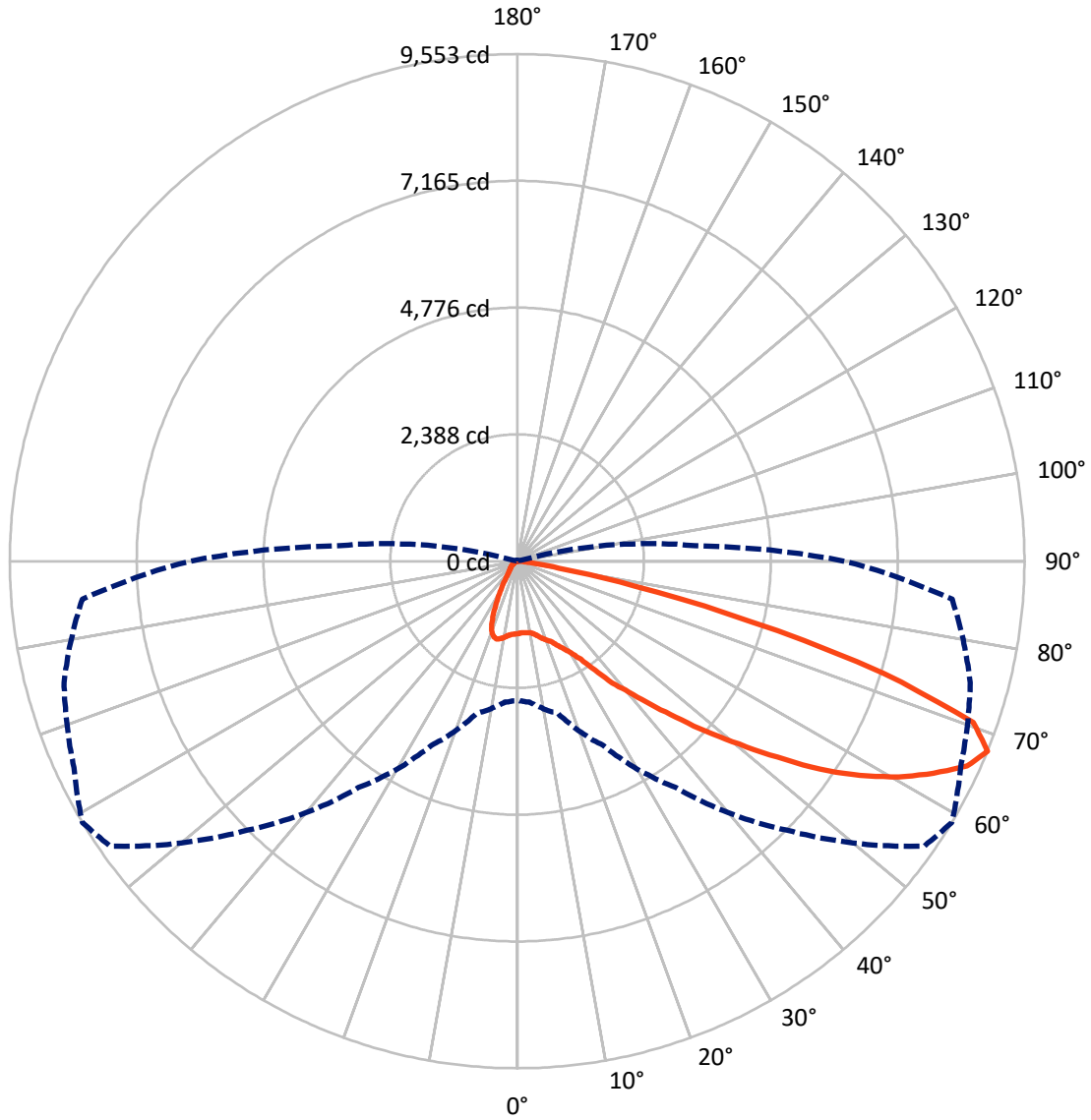
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1465.8	0.0	1465.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	11012.4	0.0	11012.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	12478.2	0.0	12478.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.0
10°-20°	375.5	3.0
20°-30°	656.3	5.3
30°-40°	1155.6	9.3
40°-50°	2042.7	16.4
50°-60°	3234.3	25.9
60°-70°	3587.7	28.8
70°-80°	1244.8	10.0
80°-90°	51.3	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°	12478.2	100.0
0°-180°	12478.2	100.0

Coefficient of Utilization

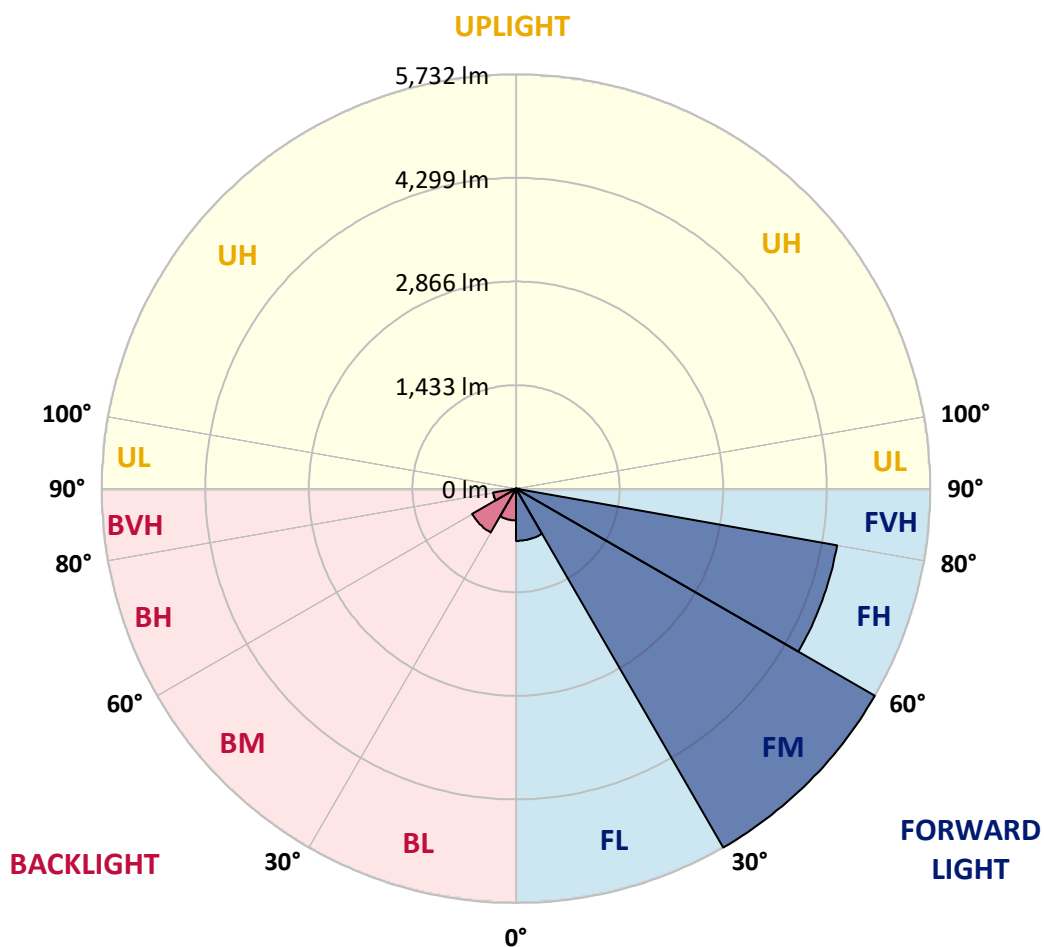


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.6	5.8			
FM (30°-60°)	5731.7	45.9			
FH (60°-80°)	4510.2	36.1			G2/5000
FVH (80°-90°)	47.9	0.4			G1/100
BL (0°-30°)	439.3	3.5	B1/500		
BM (30°-60°)	700.8	5.6	B1/1000		
BH (60°-80°)	322.3	2.6	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6
2.5°	1329.0	1310.0	1327.3	1329.0	1330.7	1346.2	1363.5	1351.4	1349.7	1363.5	1375.5
5°	1275.5	1266.9	1287.6	1298.0	1315.2	1329.0	1356.6	1358.3	1360.0	1375.5	1396.2
7.5°	1253.1	1232.5	1256.6	1268.7	1280.7	1313.5	1346.2	1363.5	1387.6	1406.6	1427.2
10°	1208.3	1223.8	1230.7	1251.4	1285.9	1323.8	1363.5	1372.1	1425.5	1441.0	1491.0
12.5°	1223.8	1234.2	1248.0	1253.1	1291.1	1347.9	1401.4	1404.8	1460.0	1527.2	1553.1
15°	1263.5	1256.6	1261.8	1268.7	1313.5	1360.0	1446.2	1461.7	1513.4	1589.3	1653.0
17.5°	1347.9	1335.9	1327.3	1325.5	1335.9	1379.0	1480.7	1527.2	1575.5	1678.9	1711.7
20°	1560.0	1549.6	1515.1	1425.5	1394.5	1411.7	1522.0	1587.5	1654.8	1770.3	1823.7
22.5°	1882.3	1892.6	1811.6	1685.8	1556.5	1489.3	1587.5	1644.4	1751.3	1897.8	1946.1
25°	2263.2	2242.6	2144.3	1997.8	1794.4	1635.8	1692.7	1756.5	1887.5	2008.1	2027.1
27.5°	2561.4	2537.3	2461.5	2283.9	2108.1	1851.3	1830.6	1870.2	2025.4	2134.0	2113.3
30°	2856.2	2864.8	2813.1	2602.8	2385.6	2115.0	1984.0	2001.2	2120.2	2259.8	2213.3
32.5°	3232.0	3211.3	3182.0	2997.5	2740.7	2451.1	2227.0	2199.5	2251.2	2435.6	2380.5
35°	3581.9	3569.8	3530.2	3344.0	3119.9	2804.5	2585.6	2523.5	2511.5	2716.6	2620.0
37.5°	3887.0	3866.3	3806.0	3687.0	3469.8	3204.4	2964.8	2909.6	2907.9	3049.3	2863.1
40°	4143.8	4159.3	4152.4	4021.4	3902.5	3690.5	3323.3	3235.4	3228.5	3304.4	3195.8
42.5°	4476.5	4512.7	4493.7	4467.9	4324.8	4242.1	3826.6	3692.2	3631.9	3787.0	3688.8
45°	4979.8	4993.6	5005.7	4941.9	4798.8	4816.1	4347.2	4186.9	4171.4	4402.4	4181.7
47.5°	5450.4	5414.2	5498.7	5502.1	5495.2	5415.9	4909.1	4790.2	4810.9	4986.7	4759.2
50°	5567.6	5660.7	5893.4	5936.5	6048.5	6120.9	5533.1	5414.2	5448.7	5648.6	5388.3
52.5°	5659.0	5800.3	6033.0	6348.4	6650.1	6822.5	6231.2	6134.7	6133.0	6255.4	5896.8
55°	5819.3	5905.5	6107.1	6541.5	7115.5	7398.2	7072.4	6917.3	6777.7	6863.8	6424.3
57.5°	5803.8	5836.5	6150.2	6686.3	7484.4	7998.0	7763.6	7615.4	7436.1	7386.1	7031.0
60°	5531.4	5609.0	5960.6	6588.0	7711.9	8465.2	8408.3	8256.6	7948.1	7830.8	7496.4
62.5°	4991.9	5095.3	5371.1	6243.3	7381.0	8489.3	8853.0	8796.1	8451.4	8241.1	8103.2
65°	4045.6	4093.8	4411.0	5367.7	6632.9	8118.7	9378.7	9308.1	8990.9	8677.2	8415.2
67.5°	2620.0	2666.6	2971.7	3831.8	5209.1	7162.0	9358.1	9552.8	9209.8	8832.3	8220.4
70°	1237.6	1225.6	1510.0	2128.8	3337.1	5469.4	8725.5	9109.8	8818.5	8006.7	6827.6
72.5°	377.5	410.2	627.4	942.9	1713.4	3411.2	6839.7	7200.0	7108.6	6396.7	4557.5
75°	167.2	181.0	246.5	386.1	694.7	1399.7	4224.8	4545.4	4505.8	3773.2	2080.5
77.5°	106.9	117.2	155.1	220.6	315.4	444.7	1946.1	2258.1	2189.1	1325.5	544.7
80°	75.8	81.0	110.3	151.7	198.2	182.7	670.5	796.4	763.6	360.3	146.5
82.5°	41.4	44.8	81.0	112.0	132.7	93.1	187.9	234.4	244.8	160.3	70.7
85°	15.5	19.0	50.0	79.3	68.9	43.1	55.2	67.2	87.9	87.9	32.8
87.5°	0.0	1.7	20.7	34.5	17.2	12.1	15.5	19.0	24.1	41.4	12.1
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°	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6	1368.6
2.5°	1384.1	1372.1	1377.2	1385.9	1366.9	1377.2	1356.6	1372.1	1377.2	1356.6	1366.9
5°	1401.4	1413.4	1406.6	1392.8	1380.7	1384.1	1379.0	1366.9	1377.2	1380.7	1373.8
7.5°	1451.4	1437.6	1441.0	1425.5	1401.4	1399.7	1366.9	1358.3	1361.7	1365.2	1353.1
10°	1497.9	1506.5	1489.3	1477.2	1437.6	1411.7	1366.9	1318.6	1313.5	1292.8	1310.0
12.5°	1580.6	1560.0	1553.1	1513.4	1473.8	1387.6	1291.1	1216.9	1154.9	1132.5	1110.1
15°	1649.6	1646.1	1634.1	1573.8	1482.4	1325.5	1142.8	970.5	851.5	777.4	767.1
17.5°	1744.4	1728.9	1706.5	1611.7	1418.6	1163.5	851.5	634.3	515.4	468.9	451.6
20°	1816.8	1804.7	1773.7	1603.1	1303.1	867.0	527.5	403.3	374.0	365.4	367.2
22.5°	1921.9	1884.0	1825.4	1560.0	1092.8	577.4	379.2	360.3	355.1	348.2	349.9
25°	2013.3	1978.8	1856.4	1485.8	779.1	382.7	351.6	341.3	332.7	324.1	322.3
27.5°	2094.3	2051.2	1889.2	1334.2	487.8	329.2	325.8	313.7	296.5	282.7	277.5
30°	2173.6	2123.6	1897.8	1049.7	329.2	298.2	289.6	270.6	248.2	229.3	225.8
32.5°	2306.3	2246.0	1885.7	749.8	284.4	265.5	246.5	224.1	191.3	175.8	172.4
35°	2513.2	2421.8	1870.2	441.3	255.1	234.4	205.1	175.8	151.7	136.2	132.7
37.5°	2751.1	2592.5	1825.4	294.8	234.4	206.8	168.9	139.6	118.9	106.9	103.4
40°	3104.4	2842.4	1653.0	241.3	208.6	175.8	136.2	110.3	94.8	86.2	82.7
42.5°	3494.0	3128.5	1387.6	217.2	184.4	150.0	108.6	89.6	77.6	68.9	68.9
45°	3961.1	3426.7	1070.4	198.2	163.8	124.1	89.6	72.4	62.1	55.2	51.7
47.5°	4481.7	3697.4	722.2	179.3	137.9	101.7	74.1	55.2	44.8	39.6	39.6
50°	4947.1	3937.0	460.2	156.9	120.7	84.5	60.3	44.8	36.2	29.3	27.6
52.5°	5369.4	4119.7	317.2	137.9	103.4	68.9	50.0	36.2	27.6	22.4	22.4
55°	5802.0	4212.8	234.4	118.9	89.6	58.6	41.4	32.8	24.1	19.0	17.2
57.5°	6157.1	4252.4	179.3	103.4	75.8	46.5	36.2	27.6	20.7	15.5	13.8
60°	6460.5	4233.4	139.6	86.2	60.3	39.6	31.0	22.4	17.2	12.1	10.3
62.5°	6638.0	4119.7	110.3	74.1	48.3	34.5	25.9	19.0	12.1	8.6	6.9
65°	6641.5	3878.4	86.2	55.2	36.2	29.3	22.4	15.5	8.6	3.4	1.7
67.5°	6165.7	3356.1	68.9	43.1	29.3	22.4	17.2	12.1	3.4	0.0	0.0
70°	4823.0	2539.0	56.9	34.5	24.1	19.0	12.1	6.9	1.7	0.0	0.0
72.5°	3073.4	1520.3	46.5	27.6	20.7	13.8	8.6	5.2	0.0	0.0	0.0
75°	1285.9	468.9	36.2	24.1	15.5	10.3	6.9	1.7	0.0	0.0	0.0
77.5°	331.0	148.2	29.3	20.7	15.5	8.6	5.2	1.7	0.0	0.0	0.0
80°	98.3	55.2	24.1	17.2	12.1	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	44.8	32.8	20.7	15.5	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	17.2	10.3	10.3	8.6	8.6	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	3.4	3.4	1.7	1.7	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)