

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: P482832

Luminaire Tested: **IFLD-S-SA2B-740-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482832
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

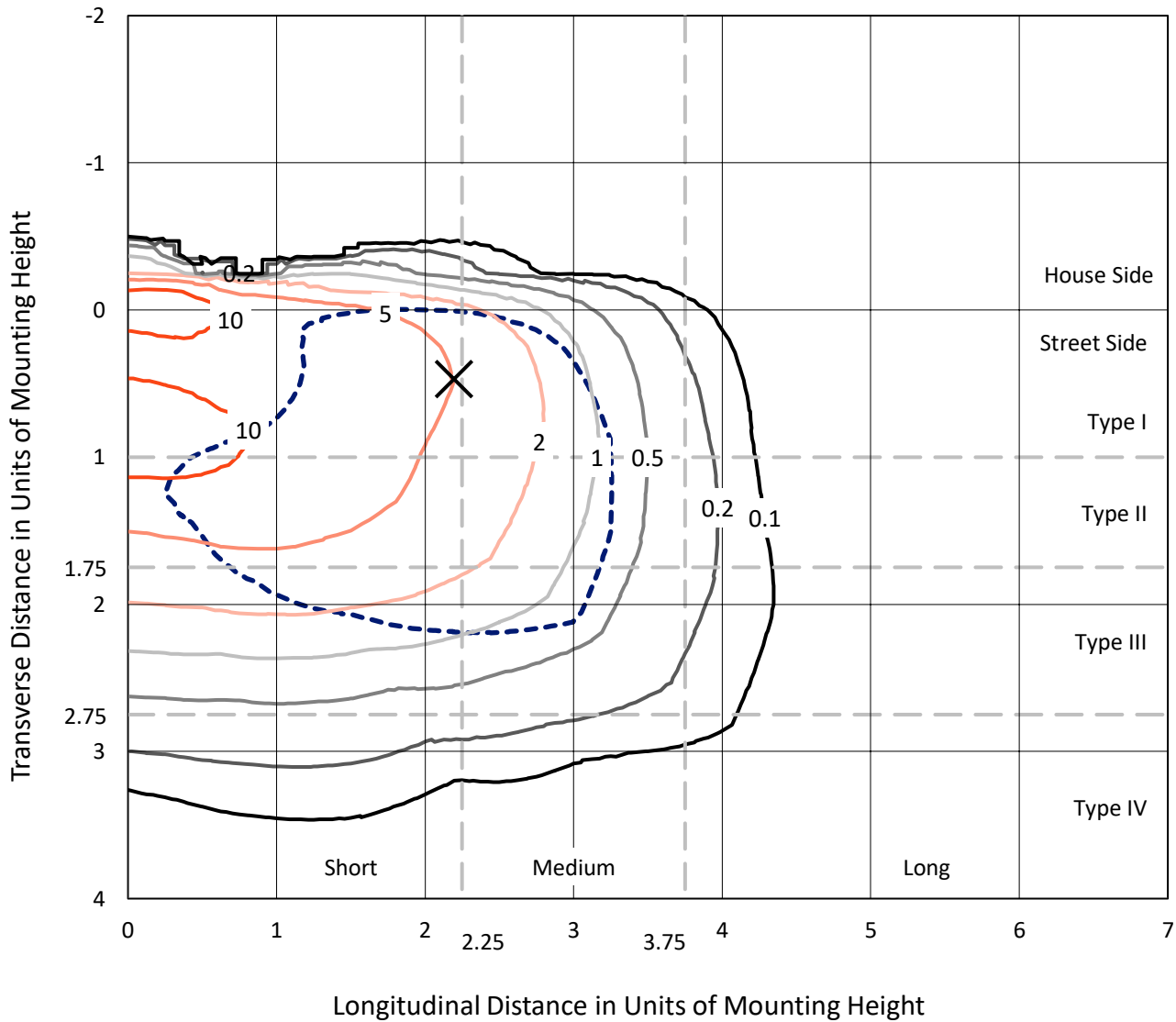
Lumens per Lamp: N/A
Luminaire Lumens: 8184.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

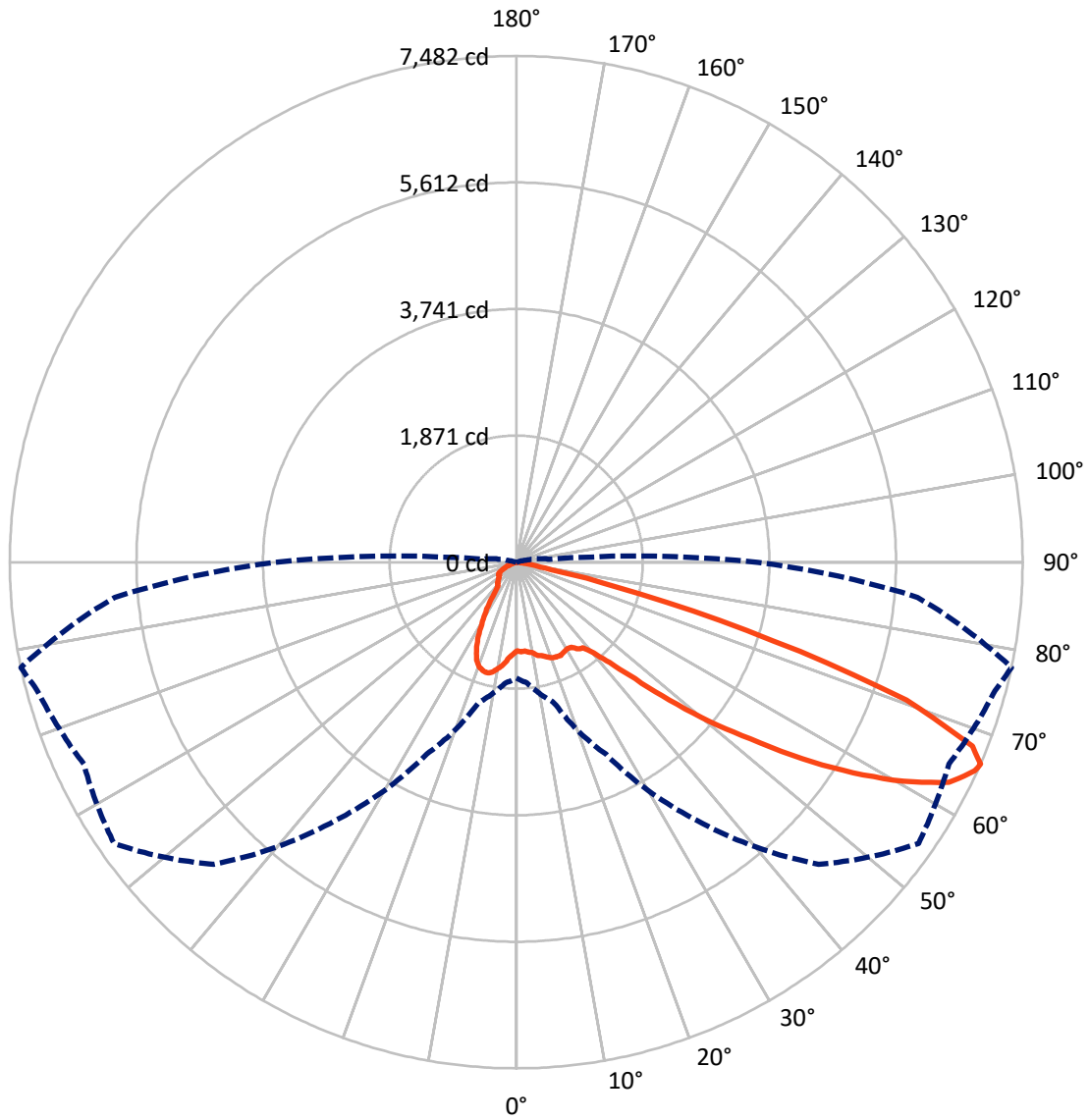
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.4	0.0	575.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7609.1	0.0	7609.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	8184.5	0.0	8184.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.5
10°-20°	270.7	3.3
20°-30°	386.9	4.7
30°-40°	662.3	8.1
40°-50°	1195.5	14.6
50°-60°	2044.4	25.0
60°-70°	2516.3	30.7
70°-80°	951.3	11.6
80°-90°	37.2	0.5
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°	8184.5	100.0
0°-180°	8184.5	100.0

Coefficient of Utilization



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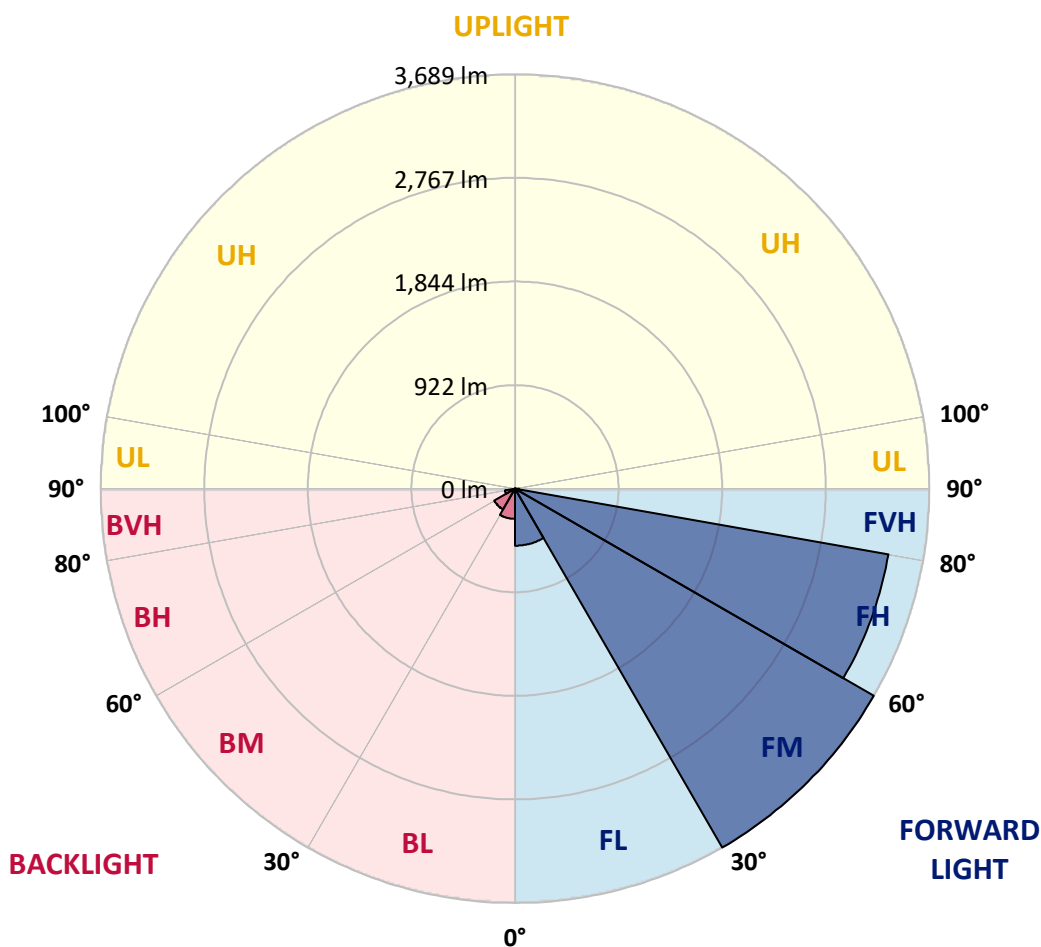
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.1	6.2			
FM (30°-60°)	3688.9	45.1			
FH (60°-80°)	3376.4	41.3			G2/5000
FVH (80°-90°)	35.7	0.4			G1/100
BL (0°-30°)	269.5	3.3	B1/500		
BM (30°-60°)	213.3	2.6	B0/220		
BH (60°-80°)	91.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	65°	75°	78°	85°
0°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1205.8	1194.6	1205.8	1221.8	1230.5	1237.9	1263.9	1286.2	1309.7	1325.7	1320.8
5°	1118.0	1139.0	1141.5	1146.4	1160.0	1204.5	1219.4	1257.7	1315.8	1320.8	1343.0
7.5°	1048.7	1042.5	1058.6	1090.8	1125.4	1151.4	1194.6	1261.4	1322.0	1343.0	1386.3
10°	948.5	960.9	978.2	1010.4	1052.4	1116.7	1193.4	1267.6	1354.2	1361.6	1442.0
12.5°	894.1	881.8	909.0	942.4	1014.1	1073.4	1167.4	1256.5	1374.0	1414.8	1507.5
15°	849.6	855.8	881.8	904.0	963.4	1038.8	1148.9	1283.7	1407.3	1435.8	1576.8
17.5°	831.1	827.3	847.1	869.4	942.4	1027.7	1141.5	1284.9	1437.0	1474.1	1623.8
20°	839.7	847.1	840.9	862.0	907.7	994.3	1152.6	1308.4	1459.3	1510.0	1674.5
22.5°	975.7	965.9	916.4	876.8	879.3	980.7	1143.9	1323.3	1479.1	1519.9	1709.1
25°	1330.7	1277.5	1155.1	1003.0	902.8	943.6	1134.0	1318.3	1475.4	1526.1	1730.1
27.5°	1688.1	1642.3	1522.4	1286.2	998.0	928.8	1099.4	1322.0	1456.8	1503.8	1695.5
30°	2065.3	2090.0	1911.9	1631.2	1247.8	1010.4	1077.2	1302.2	1444.4	1484.0	1702.9
32.5°	2452.3	2442.5	2334.9	2030.6	1605.2	1190.9	1113.0	1322.0	1460.5	1498.9	1746.2
35°	2755.3	2720.7	2611.9	2337.3	1900.8	1463.0	1236.7	1416.0	1531.0	1576.8	1808.0
37.5°	2905.0	2919.8	2856.7	2618.1	2224.8	1715.3	1391.3	1416.0	1553.3	1606.5	1908.2
40°	3021.2	3065.7	3042.2	2965.6	2546.3	1999.7	1561.9	1503.8	1665.8	1766.0	2096.2
42.5°	3161.0	3139.9	3278.5	3208.0	2966.8	2358.4	1861.2	1712.8	1931.7	2028.2	2378.1
45°	3235.2	3315.6	3420.7	3511.0	3356.4	2806.0	2252.0	2082.6	2338.6	2461.0	2797.4
47.5°	3425.6	3457.8	3628.4	3742.2	3673.0	3318.0	2845.6	2623.0	2850.6	3043.5	3277.2
50°	3536.9	3493.6	3732.3	3905.5	3945.0	3742.2	3377.4	3204.3	3459.0	3705.1	3726.1
52.5°	3439.2	3562.9	3801.6	4112.0	4222.0	4120.6	4001.9	3926.5	4105.8	4333.3	4231.9
55°	3096.7	3180.8	3762.0	4338.3	4693.2	4646.2	4756.3	4706.8	4887.4	5128.5	4823.1
57.5°	2820.9	2926.0	3436.8	4455.8	5132.2	5270.8	5409.3	5378.3	5596.0	5874.3	5323.9
60°	2649.0	2709.6	3201.8	4426.1	5392.0	5916.3	6229.2	6011.5	6366.5	6579.2	5716.0
62.5°	2350.9	2389.3	2859.2	4032.8	5469.9	6372.6	6903.2	6607.6	6915.6	7175.3	5997.9
65°	1884.7	1988.6	2376.9	3444.2	4955.4	6456.7	7323.7	6976.1	7274.2	7444.9	6083.3
66°	1715.3	1790.7	2146.9	3132.5	4662.3	6317.0	7253.2	7052.8	7326.1	7482.0	5952.2
67.5°	1423.4	1489.0	1772.2	2688.6	4062.5	6009.1	7302.6	7000.9	7365.7	7270.5	5776.6
70°	942.4	984.4	1212.0	1817.9	2829.5	4915.8	6773.3	6595.2	6475.3	6117.9	4516.4
72.5°	440.3	500.9	756.9	1101.9	1659.6	3439.2	5523.0	5284.4	4541.1	3969.8	2849.3
75°	199.1	226.3	415.5	631.9	744.5	1782.1	3562.9	3217.9	2260.7	1877.3	1247.8
77.5°	107.6	122.4	202.8	300.5	270.8	624.5	1763.5	1466.7	712.3	521.9	362.3
80°	82.9	97.7	169.4	171.9	100.2	162.0	655.4	453.9	178.1	134.8	86.6
82.5°	43.3	61.8	133.6	111.3	50.7	65.5	202.8	126.1	55.7	44.5	37.1
85°	17.3	27.2	75.4	74.2	29.7	22.3	56.9	38.3	22.3	18.6	17.3
87.5°	1.2	1.2	40.8	28.4	18.6	6.2	8.7	8.7	11.1	9.9	12.4
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°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1343.0	1357.9	1360.4	1401.2	1409.8	1401.2	1423.4	1419.7	1429.6	1422.2	1408.6
5°	1374.0	1395.0	1435.8	1466.7	1466.7	1442.0	1422.2	1396.2	1357.9	1348.0	1340.6
7.5°	1427.1	1493.9	1531.0	1511.2	1471.7	1378.9	1250.3	1156.3	1077.2	1047.5	1033.9
10°	1521.1	1558.2	1601.5	1521.1	1356.6	1160.0	943.6	801.4	690.1	665.3	646.8
12.5°	1581.7	1641.1	1665.8	1466.7	1143.9	850.8	615.9	455.1	377.2	317.8	307.9
15°	1660.9	1728.9	1678.2	1319.5	901.5	557.7	319.1	199.1	162.0	152.1	152.1
17.5°	1715.3	1789.5	1627.5	1136.5	639.4	296.8	158.3	137.3	134.8	136.0	133.6
20°	1810.5	1855.0	1550.8	923.8	382.1	152.1	127.4	122.4	120.0	123.7	121.2
22.5°	1846.4	1887.2	1425.9	669.0	171.9	101.4	95.2	91.5	94.0	92.8	91.5
25°	1843.9	1864.9	1220.6	383.4	50.7	39.6	35.9	35.9	33.4	34.6	33.4
27.5°	1862.4	1810.5	990.6	113.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1872.3	1722.7	704.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1877.3	1676.9	453.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1915.6	1585.4	194.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1941.6	1467.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2049.2	1430.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2188.9	1361.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2383.1	1258.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2640.3	1198.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2832.0	1103.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3075.6	1046.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3365.0	1048.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3628.4	1031.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3763.2	881.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3734.8	713.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3635.9	560.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3567.8	495.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3361.3	397.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2675.0	272.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1701.7	167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	784.1	76.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	246.1	47.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.3	29.7	9.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	21.0	8.7	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	8.7	3.7	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	4.9	2.5	2.5	1.2	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)