

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: P482989

Luminaire Tested: **IFLD-S-SA2C-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482989
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

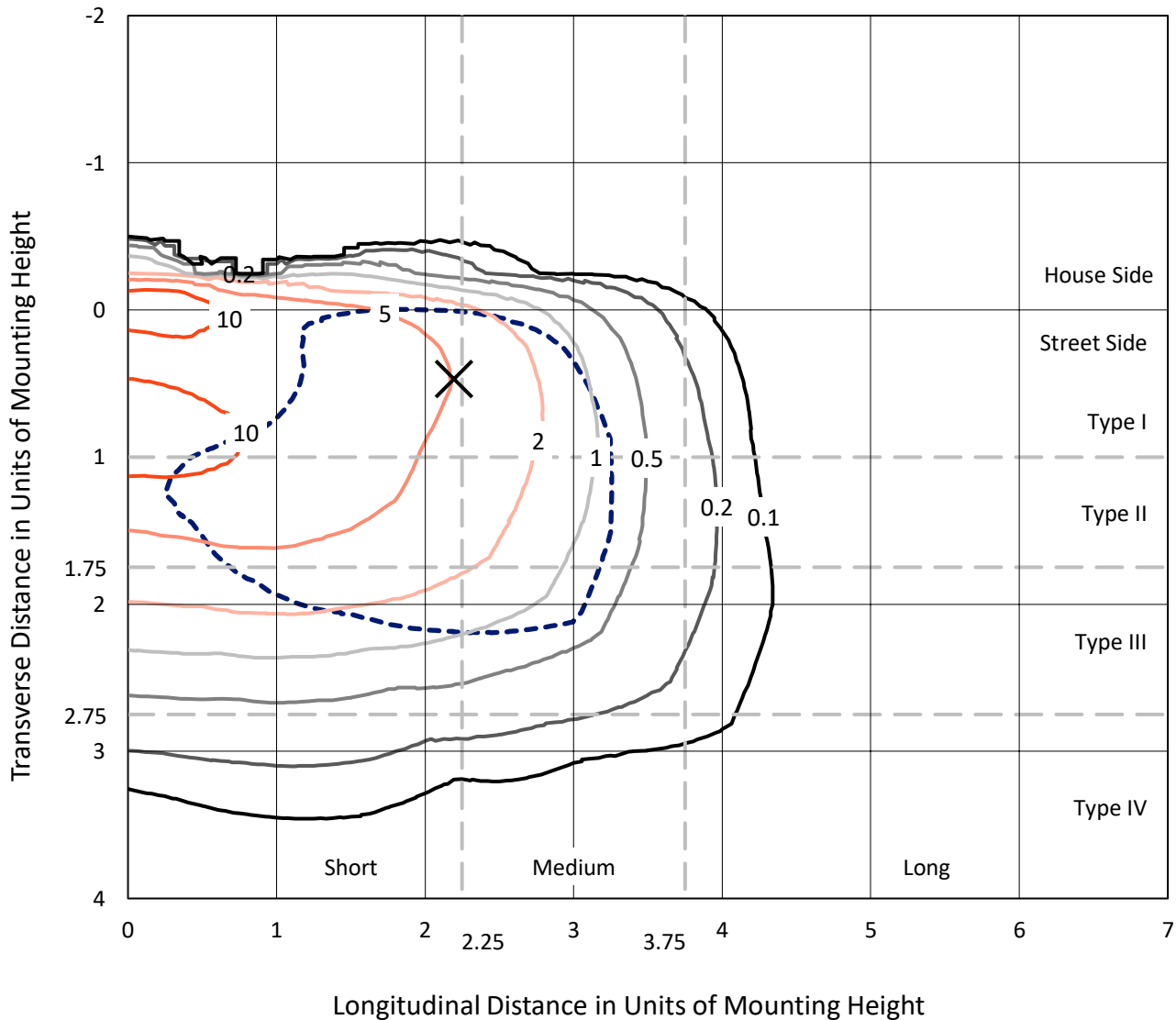
Lumens per Lamp: N/A
Luminaire Lumens: 8095.7 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

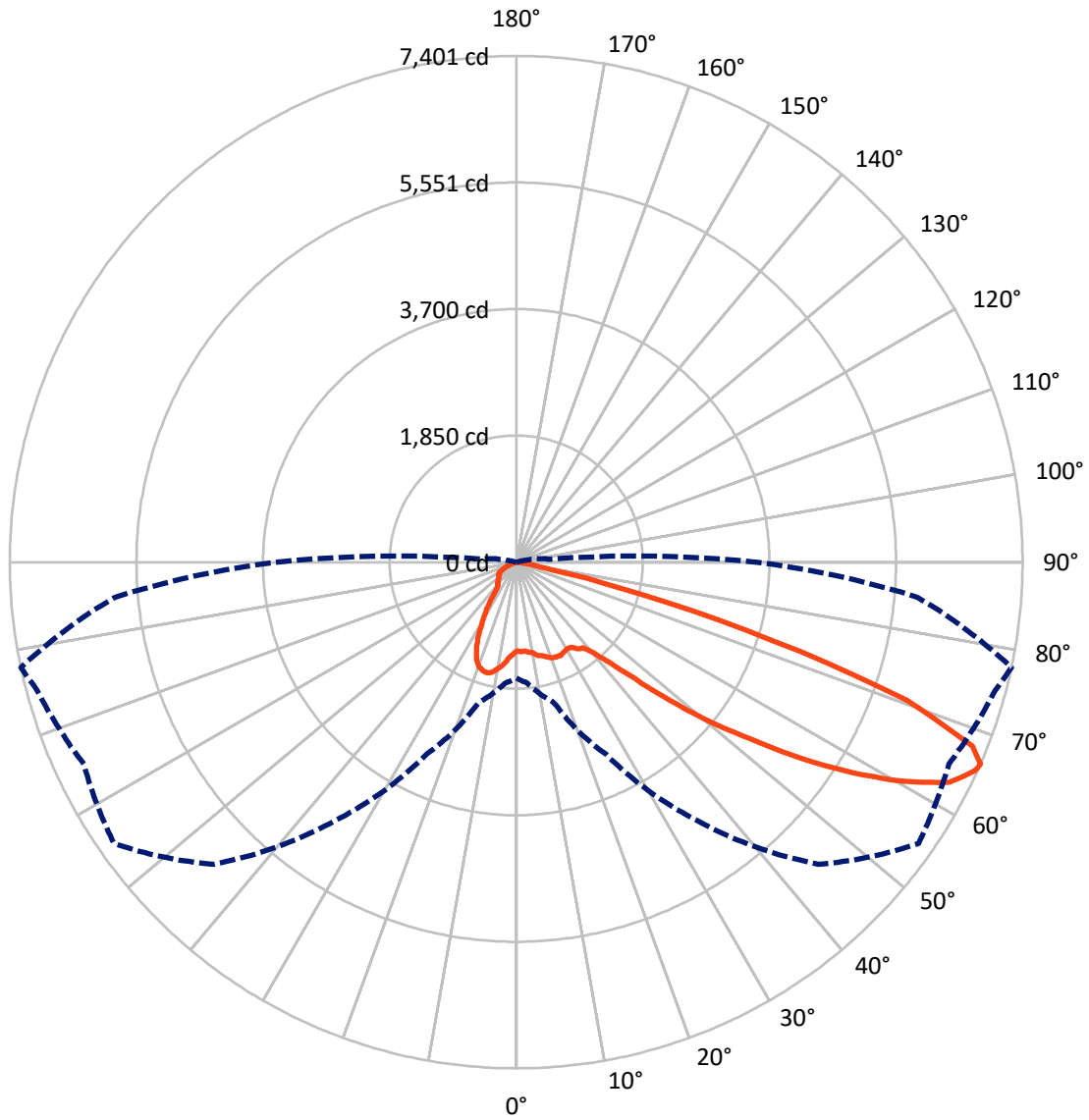
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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	569.2	0.0	569.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7526.6	0.0	7526.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	8095.7	0.0	8095.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.5
10°-20°	267.8	3.3
20°-30°	382.7	4.7
30°-40°	655.2	8.1
40°-50°	1182.5	14.6
50°-60°	2022.2	25.0
60°-70°	2489.0	30.7
70°-80°	941.0	11.6
80°-90°	36.8	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°	8095.7	100.0
0°-180°	8095.7	100.0

Coefficient of Utilization

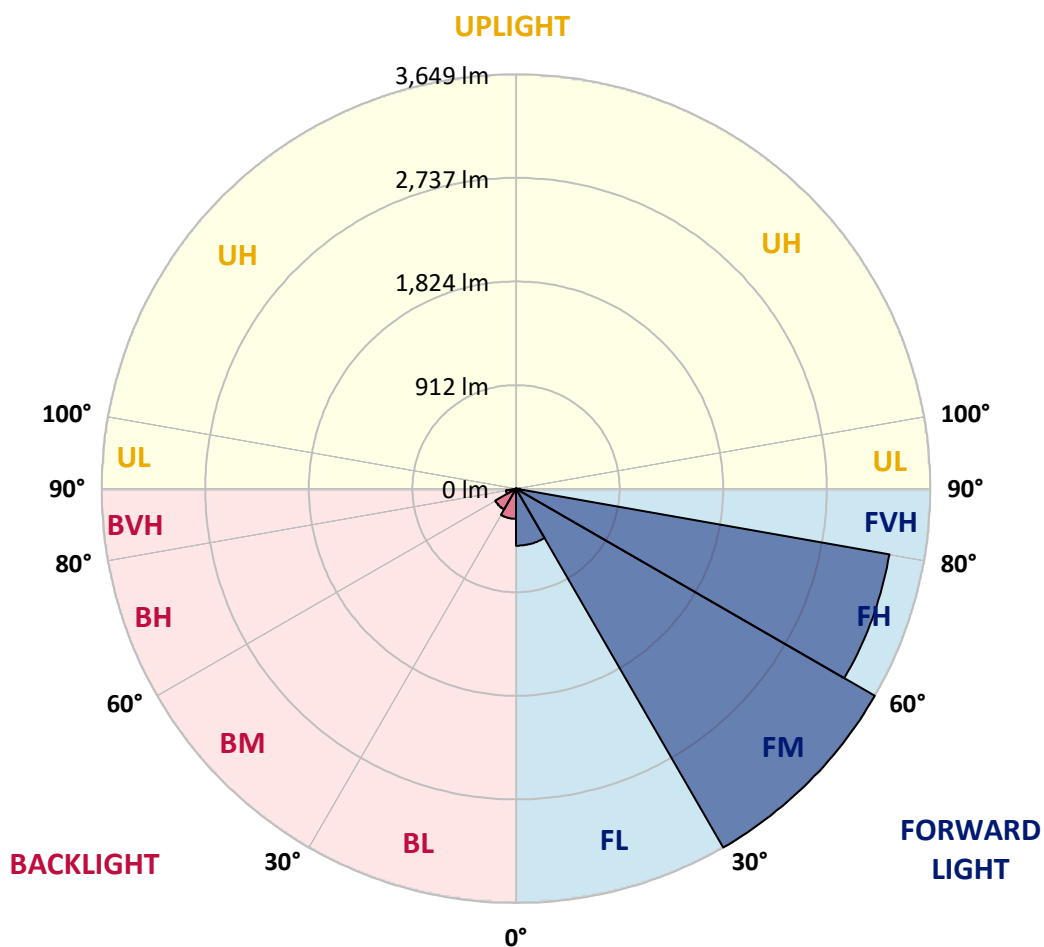


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.6	6.2			
FM (30°-60°)	3648.9	45.1			
FH (60°-80°)	3339.8	41.3			G2/5000
FVH (80°-90°)	35.3	0.4			G1/100
BL (0°-30°)	266.6	3.3	B1/500		
BM (30°-60°)	211.0	2.6	B0/220		
BH (60°-80°)	90.2	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°	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1192.7	1181.7	1192.7	1208.6	1217.2	1224.5	1250.2	1272.2	1295.5	1311.4	1306.5
5°	1105.8	1126.6	1129.1	1134.0	1147.4	1191.5	1206.2	1244.1	1301.6	1306.5	1328.5
7.5°	1037.3	1031.2	1047.1	1078.9	1113.2	1138.9	1181.7	1247.7	1307.7	1328.5	1371.3
10°	938.3	950.5	967.6	999.4	1041.0	1104.6	1180.5	1253.9	1339.5	1346.8	1426.3
12.5°	884.4	872.2	899.1	932.1	1003.1	1061.8	1154.8	1242.8	1359.1	1399.4	1491.2
15°	840.4	846.5	872.2	894.2	952.9	1027.6	1136.4	1269.8	1392.1	1420.2	1559.7
17.5°	822.0	818.4	837.9	860.0	932.1	1016.5	1129.1	1271.0	1421.4	1458.1	1606.2
20°	830.6	837.9	831.8	852.6	897.9	983.5	1140.1	1294.2	1443.5	1493.6	1656.3
22.5°	965.2	955.4	906.4	867.3	869.8	970.1	1131.5	1308.9	1463.0	1503.4	1690.6
25°	1316.2	1263.6	1142.5	992.1	893.0	933.4	1121.7	1304.0	1459.4	1509.5	1711.4
27.5°	1669.8	1624.5	1505.9	1272.2	987.2	918.7	1087.5	1307.7	1441.0	1487.5	1677.1
30°	2042.9	2067.3	1891.2	1613.5	1234.3	999.4	1065.5	1288.1	1428.8	1467.9	1684.5
32.5°	2425.8	2416.0	2309.5	2008.6	1587.8	1178.0	1100.9	1307.7	1444.7	1482.6	1727.3
35°	2725.5	2691.2	2583.6	2312.0	1880.2	1447.1	1223.3	1400.7	1514.4	1559.7	1788.4
37.5°	2873.5	2888.2	2825.8	2589.7	2200.7	1696.7	1376.2	1400.7	1536.4	1589.0	1887.5
40°	2988.5	3032.5	3009.3	2933.4	2518.7	1978.0	1545.0	1487.5	1647.8	1746.8	2073.5
42.5°	3126.7	3105.9	3242.9	3173.2	2934.6	2332.8	1841.0	1694.2	1910.8	2006.2	2352.4
45°	3200.1	3279.6	3383.6	3472.9	3320.0	2775.6	2227.6	2060.0	2313.2	2434.3	2767.1
47.5°	3388.5	3420.3	3589.1	3701.6	3633.1	3282.1	2814.8	2594.6	2819.7	3010.5	3241.7
50°	3498.6	3455.8	3691.9	3863.1	3902.3	3701.6	3340.8	3169.5	3421.5	3664.9	3685.7
52.5°	3401.9	3524.3	3760.4	4067.4	4176.3	4076.0	3958.5	3883.9	4061.3	4286.4	4186.1
55°	3063.1	3146.3	3721.2	4291.3	4642.3	4595.9	4704.7	4655.8	4834.4	5072.9	4770.8
57.5°	2790.3	2894.3	3399.5	4407.5	5076.6	5213.6	5350.6	5320.0	5535.3	5810.6	5266.2
60°	2620.3	2680.2	3167.1	4378.1	5333.5	5852.2	6161.6	5946.4	6297.4	6507.8	5654.0
62.5°	2325.4	2363.4	2828.2	3989.1	5410.6	6303.5	6828.3	6536.0	6840.6	7097.5	5932.9
65°	1864.3	1967.0	2351.1	3406.8	4901.7	6386.7	7244.2	6900.5	7195.3	7364.1	6017.3
66°	1696.7	1771.3	2123.6	3098.6	4611.8	6248.5	7174.5	6976.3	7246.7	7400.8	5887.6
67.5°	1408.0	1472.8	1753.0	2659.4	4018.5	5943.9	7223.5	6925.0	7285.8	7191.6	5713.9
70°	932.1	973.7	1198.8	1798.2	2798.9	4862.5	6699.9	6523.7	6405.1	6051.6	4467.4
72.5°	435.5	495.4	748.6	1089.9	1641.6	3401.9	5463.2	5227.1	4491.9	3926.7	2818.4
75°	196.9	223.9	411.0	625.1	736.4	1762.7	3524.3	3183.0	2236.2	1856.9	1234.3
77.5°	106.4	121.1	200.6	297.3	267.9	617.8	1744.4	1450.8	704.6	516.2	358.4
80°	82.0	96.6	167.6	170.0	99.1	160.2	648.3	448.9	176.2	133.3	85.6
82.5°	42.8	61.2	132.1	110.1	50.2	64.8	200.6	124.8	55.0	44.0	36.7
85°	17.1	26.9	74.6	73.4	29.4	22.0	56.3	37.9	22.0	18.3	17.1
87.5°	1.2	1.2	40.4	28.1	18.3	6.1	8.6	8.6	11.0	9.8	12.2
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°	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1328.5	1343.2	1345.6	1386.0	1394.5	1386.0	1408.0	1404.3	1414.1	1406.8	1393.3
5°	1359.1	1379.9	1420.2	1450.8	1450.8	1426.3	1406.8	1381.1	1343.2	1333.4	1326.0
7.5°	1411.7	1477.7	1514.4	1494.8	1455.7	1364.0	1236.7	1143.8	1065.5	1036.1	1022.7
10°	1504.6	1541.3	1584.1	1504.6	1341.9	1147.4	933.4	792.7	682.6	658.1	639.8
12.5°	1564.6	1623.3	1647.8	1450.8	1131.5	841.6	609.2	450.2	373.1	314.4	304.6
15°	1642.9	1710.1	1660.0	1305.2	891.8	551.7	315.6	196.9	160.2	150.5	150.5
17.5°	1696.7	1770.1	1609.8	1124.2	632.4	293.6	156.6	135.8	133.3	134.6	132.1
20°	1790.9	1834.9	1534.0	913.8	378.0	150.5	126.0	121.1	118.7	122.3	119.9
22.5°	1826.4	1866.7	1410.4	661.8	170.0	100.3	94.2	90.5	93.0	91.7	90.5
25°	1823.9	1844.7	1207.4	379.2	50.2	39.1	35.5	35.5	33.0	34.3	33.0
27.5°	1842.3	1790.9	979.8	112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1852.0	1704.0	697.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1856.9	1658.8	448.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1894.9	1568.2	192.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1920.5	1452.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2027.0	1415.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2165.2	1346.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2357.3	1245.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2611.7	1185.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2801.3	1091.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3042.3	1034.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3328.5	1037.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3589.1	1020.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3722.4	872.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3694.3	705.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3596.4	554.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3529.2	490.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3324.9	392.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2645.9	269.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1683.2	165.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	775.6	75.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	243.4	46.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.6	29.4	9.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.0	20.8	8.6	3.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	8.6	3.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	4.9	2.4	2.4	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)