

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: P482990

Luminaire Tested: **IFLD-S-SA2D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482990
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

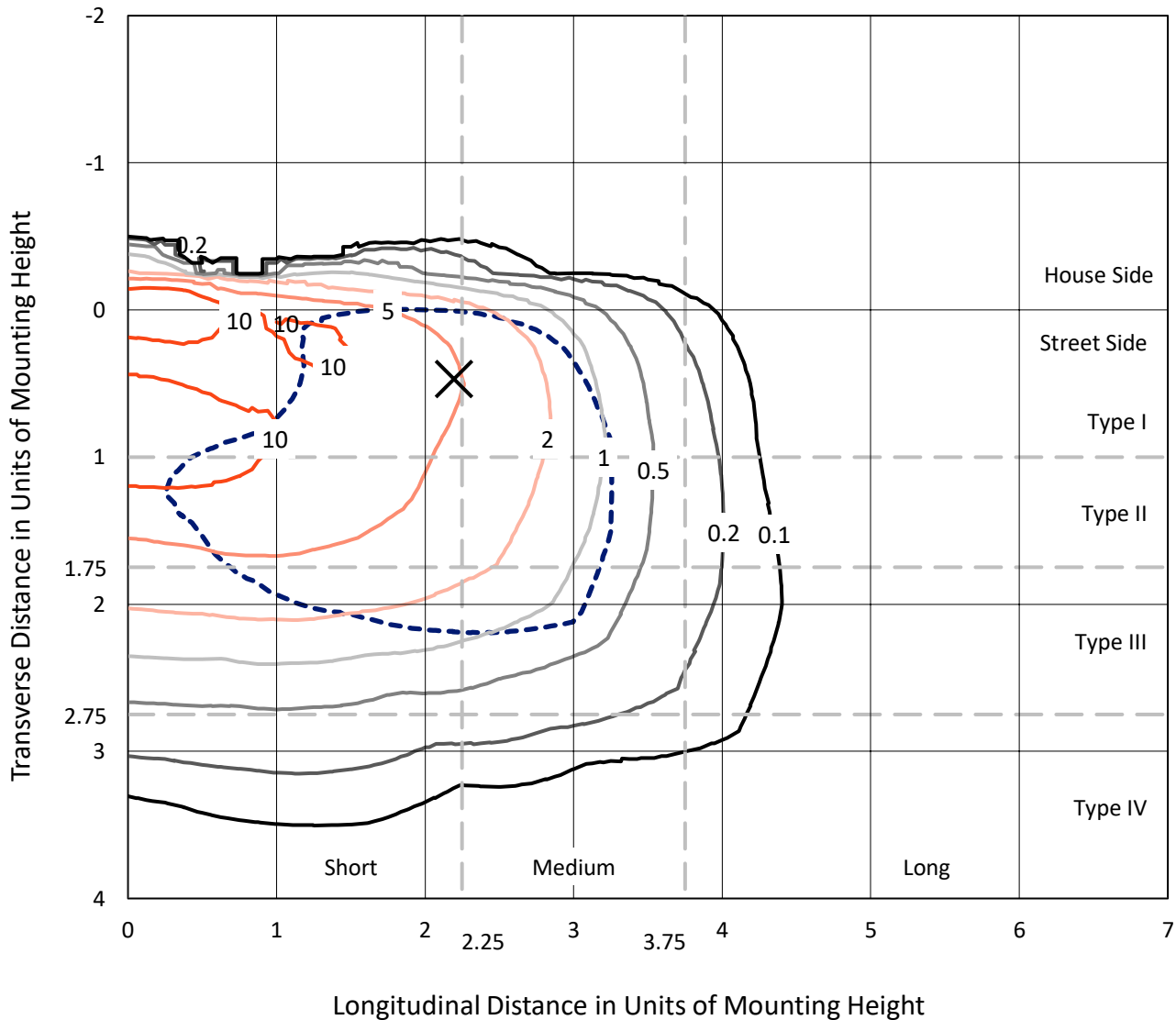
Lumens per Lamp: N/A
Luminaire Lumens: 8908 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

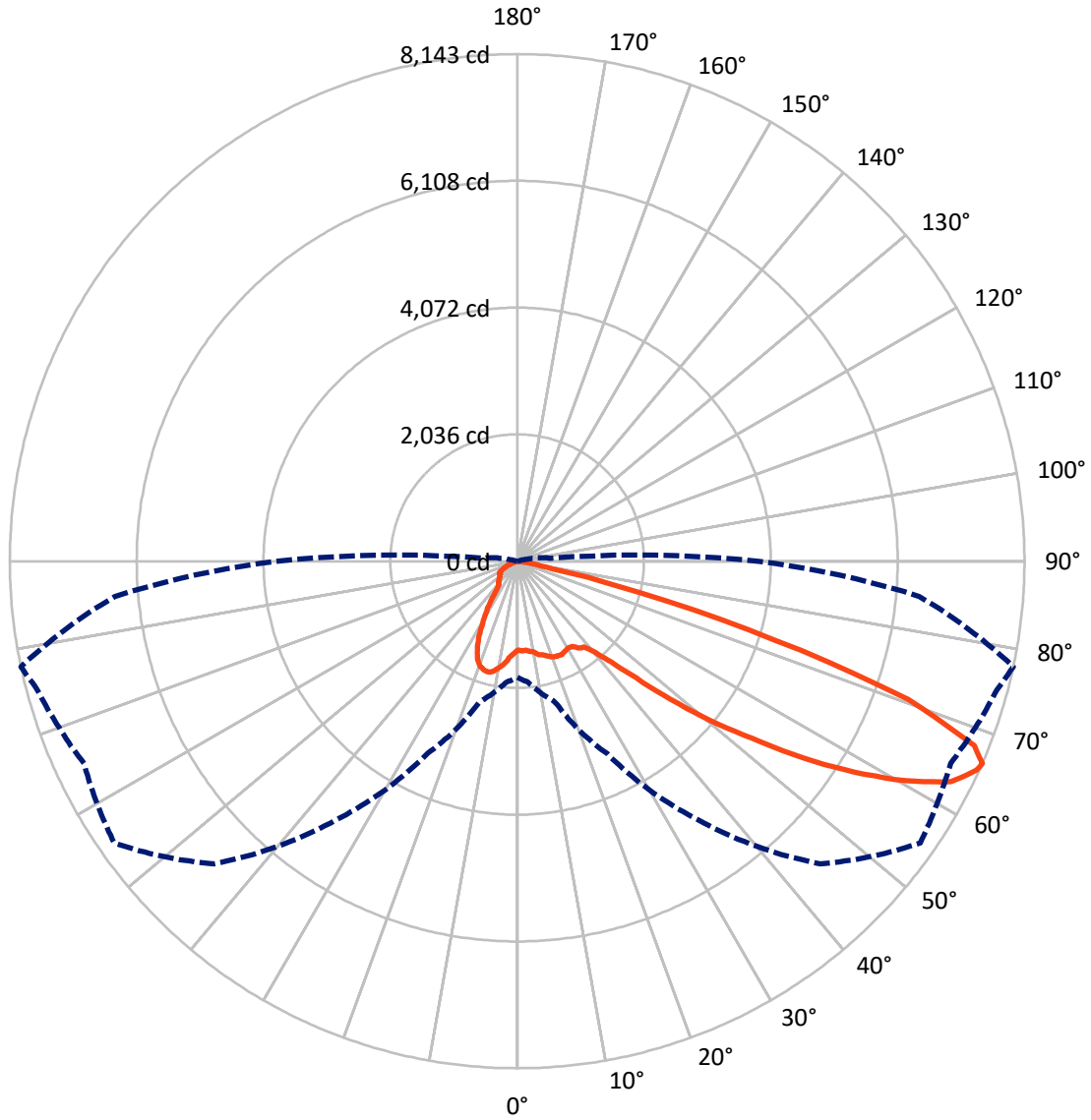
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 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	626.3	0.0	626.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	8281.8	0.0	8281.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	8908.0	0.0	8908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.5
10°-20°	294.7	3.3
20°-30°	421.1	4.7
30°-40°	720.9	8.1
40°-50°	1301.1	14.6
50°-60°	2225.1	25.0
60°-70°	2738.7	30.7
70°-80°	1035.4	11.6
80°-90°	40.4	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°	8908.0	100.0
0°-180°	8908.0	100.0

Coefficient of Utilization

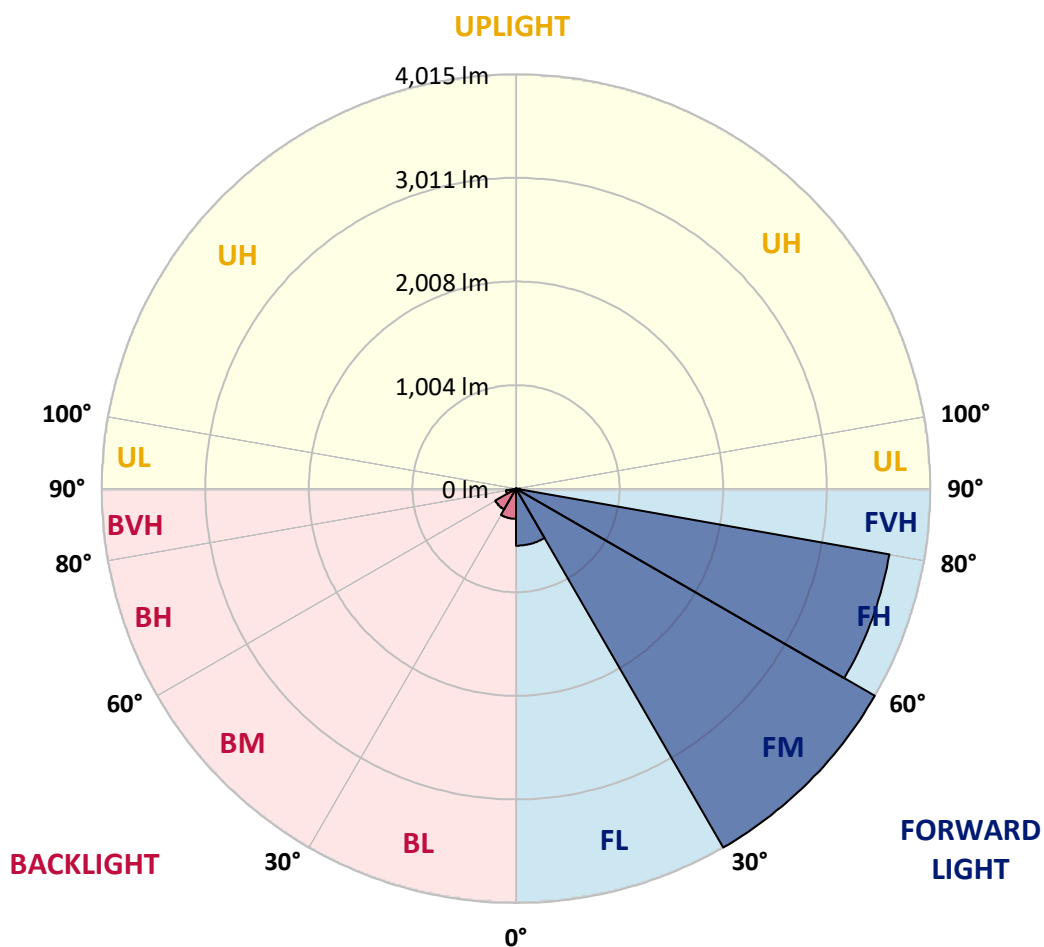


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.0	6.2			
FM (30°-60°)	4015.0	45.1			
FH (60°-80°)	3674.9	41.3			G2/5000
FVH (80°-90°)	38.8	0.4			G1/100
BL (0°-30°)	293.3	3.3	B1/500		
BM (30°-60°)	232.1	2.6	B1/1000		
BH (60°-80°)	99.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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°	65°	75°	78°	85°
0°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1312.4	1300.3	1312.4	1329.9	1339.3	1347.4	1375.6	1399.9	1425.4	1442.9	1437.5
5°	1216.8	1239.7	1242.4	1247.8	1262.6	1311.0	1327.2	1368.9	1432.2	1437.5	1461.8
7.5°	1141.4	1134.7	1152.2	1187.2	1224.9	1253.1	1300.3	1372.9	1438.9	1461.8	1508.9
10°	1032.4	1045.9	1064.7	1099.7	1145.5	1215.5	1298.9	1379.7	1473.9	1482.0	1569.5
12.5°	973.2	959.7	989.3	1025.7	1103.7	1168.3	1270.6	1367.6	1495.4	1539.8	1640.8
15°	924.7	931.4	959.7	983.9	1048.5	1130.7	1250.4	1397.2	1531.8	1562.7	1716.2
17.5°	904.5	900.5	922.0	946.2	1025.7	1118.5	1242.4	1398.5	1564.1	1604.5	1767.3
20°	913.9	922.0	915.3	938.2	988.0	1082.2	1254.5	1424.1	1588.3	1643.5	1822.5
22.5°	1062.0	1051.2	997.4	954.3	957.0	1067.4	1245.1	1440.2	1609.8	1654.3	1860.2
25°	1448.3	1390.4	1257.2	1091.6	982.6	1027.0	1234.3	1434.9	1605.8	1661.0	1883.1
27.5°	1837.3	1787.5	1656.9	1399.9	1086.2	1010.9	1196.6	1438.9	1585.6	1636.8	1845.4
30°	2247.8	2274.8	2080.9	1775.4	1358.1	1099.7	1172.4	1417.4	1572.1	1615.2	1853.5
32.5°	2669.2	2658.4	2541.3	2210.2	1747.1	1296.2	1211.4	1438.9	1589.6	1631.4	1900.6
35°	2998.9	2961.2	2842.8	2544.0	2068.8	1592.3	1346.0	1541.2	1666.4	1716.2	1967.9
37.5°	3161.8	3177.9	3109.3	2849.5	2421.5	1866.9	1514.3	1541.2	1690.6	1748.5	2076.9
40°	3288.3	3336.8	3311.2	3227.7	2771.4	2176.5	1700.0	1636.8	1813.1	1922.1	2281.5
42.5°	3440.4	3417.5	3568.3	3491.6	3229.1	2566.9	2025.8	1864.2	2102.5	2207.5	2588.4
45°	3521.2	3608.7	3723.1	3821.3	3653.1	3054.1	2451.1	2266.7	2545.3	2678.6	3044.7
47.5°	3728.5	3763.5	3949.2	4073.0	3997.7	3611.4	3097.2	2854.9	3102.6	3312.5	3566.9
50°	3849.6	3802.5	4062.3	4250.7	4293.8	4073.0	3676.0	3487.5	3764.8	4032.7	4055.5
52.5°	3743.3	3877.9	4137.7	4475.5	4595.3	4484.9	4355.7	4273.6	4468.8	4716.4	4606.1
55°	3370.4	3462.0	4094.6	4721.8	5108.1	5057.0	5176.8	5122.9	5319.5	5581.9	5249.5
57.5°	3070.3	3184.7	3740.6	4849.7	5586.0	5736.7	5887.5	5853.8	6090.7	6393.6	5794.6
60°	2883.2	2949.1	3484.8	4817.4	5868.6	6439.3	6779.9	6543.0	6929.3	7160.8	6221.3
62.5°	2558.8	2600.5	3112.0	4389.4	5953.4	6936.0	7513.5	7191.8	7526.9	7809.6	6528.2
65°	2051.3	2164.4	2587.0	3748.7	5393.5	7027.6	7971.1	7592.9	7917.3	8103.0	6621.1
66°	1866.9	1949.0	2336.7	3409.5	5074.5	6875.5	7894.4	7676.3	7973.8	8143.4	6478.4
67.5°	1549.3	1620.6	1928.8	2926.2	4421.7	6540.3	7948.2	7619.8	8016.9	7913.2	6287.2
70°	1025.7	1071.4	1319.1	1978.6	3079.7	5350.4	7372.1	7178.3	7047.7	6658.7	4915.7
72.5°	479.2	545.1	823.8	1199.3	1806.4	3743.3	6011.3	5751.5	4942.6	4320.7	3101.2
75°	216.7	246.3	452.3	687.8	810.3	1939.6	3877.9	3502.3	2460.5	2043.3	1358.1
77.5°	117.1	133.3	220.7	327.1	294.8	679.7	1919.4	1596.4	775.3	568.0	394.4
80°	90.2	106.3	184.4	187.1	109.0	176.3	713.4	494.0	193.8	146.7	94.2
82.5°	47.1	67.3	145.4	121.1	55.2	71.3	220.7	137.3	60.6	48.5	40.4
85°	18.8	29.6	82.1	80.8	32.3	24.2	61.9	41.7	24.2	20.2	18.8
87.5°	1.3	1.3	44.4	31.0	20.2	6.7	9.4	9.4	12.1	10.8	13.5
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°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1461.8	1477.9	1480.6	1525.0	1534.5	1525.0	1549.3	1545.2	1556.0	1547.9	1533.1
5°	1495.4	1518.3	1562.7	1596.4	1596.4	1569.5	1547.9	1519.7	1477.9	1467.2	1459.1
7.5°	1553.3	1626.0	1666.4	1644.8	1601.8	1500.8	1360.8	1258.5	1172.4	1140.1	1125.3
10°	1655.6	1696.0	1743.1	1655.6	1476.6	1262.6	1027.0	872.2	751.1	724.2	704.0
12.5°	1721.6	1786.2	1813.1	1596.4	1245.1	926.1	670.3	495.3	410.5	345.9	335.2
15°	1807.7	1881.7	1826.5	1436.2	981.2	607.1	347.3	216.7	176.3	165.6	165.6
17.5°	1866.9	1947.7	1771.4	1237.0	695.9	323.0	172.3	149.4	146.7	148.1	145.4
20°	1970.6	2019.0	1687.9	1005.5	415.9	165.6	138.6	133.3	130.6	134.6	131.9
22.5°	2009.6	2054.0	1552.0	728.2	187.1	110.4	103.6	99.6	102.3	101.0	99.6
25°	2006.9	2029.8	1328.5	417.3	55.2	43.1	39.0	39.0	36.3	37.7	36.3
27.5°	2027.1	1970.6	1078.2	123.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2037.9	1875.0	767.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2043.3	1825.2	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2085.0	1725.6	211.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2113.2	1597.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2230.3	1557.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2382.4	1482.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2593.8	1370.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2873.7	1304.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3082.4	1200.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3347.5	1138.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3662.5	1141.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3949.2	1122.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4095.9	959.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4065.0	776.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3957.3	609.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3883.3	539.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3658.5	432.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2911.4	296.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1852.1	181.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	853.4	83.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	267.9	51.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.0	32.3	10.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	22.9	9.4	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	9.4	4.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	5.4	2.7	2.7	1.3	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)