

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: P482834

Luminaire Tested: **IFLD-S-SA2D-740-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482834  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

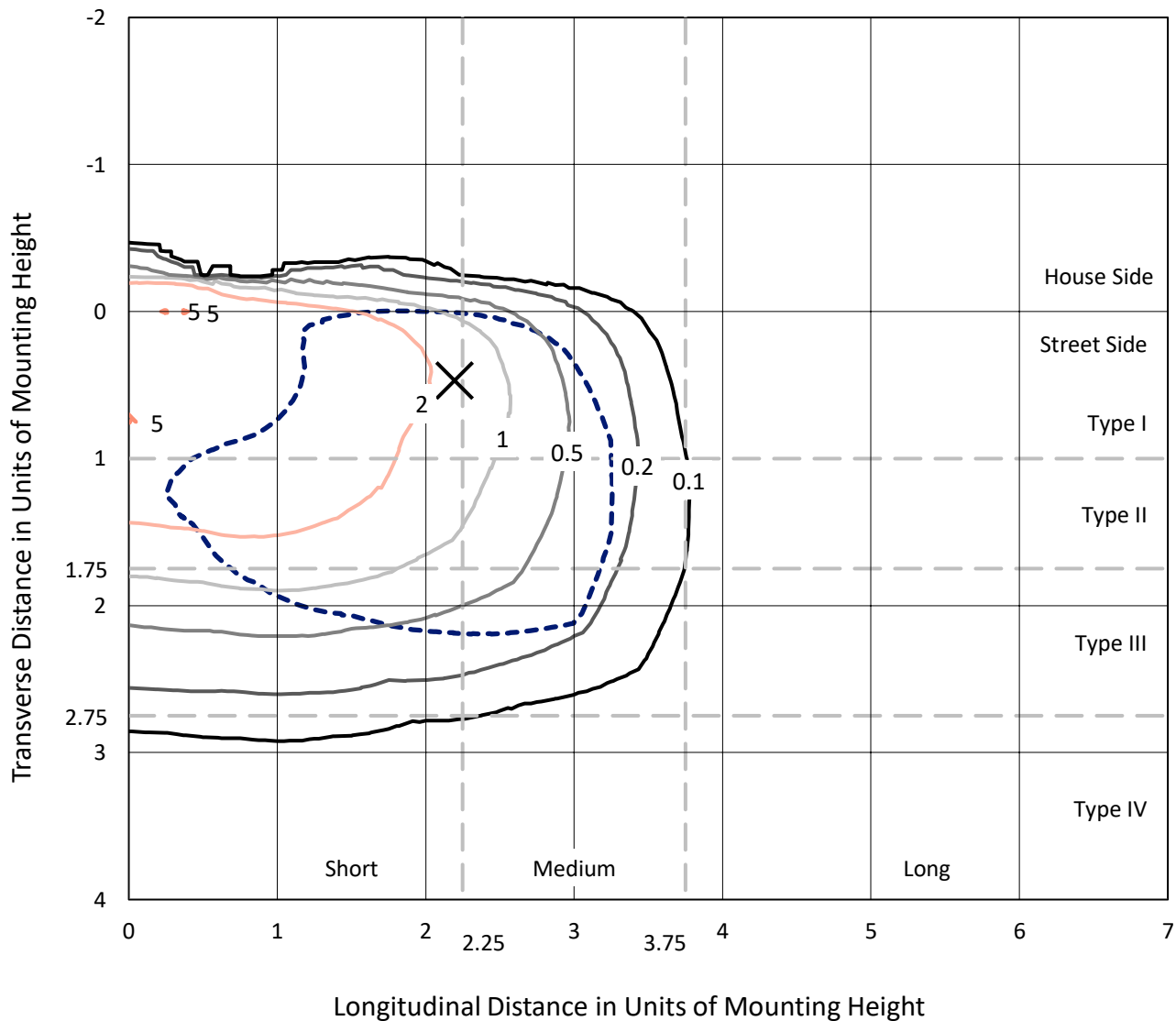
Lumens per Lamp: N/A  
Luminaire Lumens: 11210.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (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

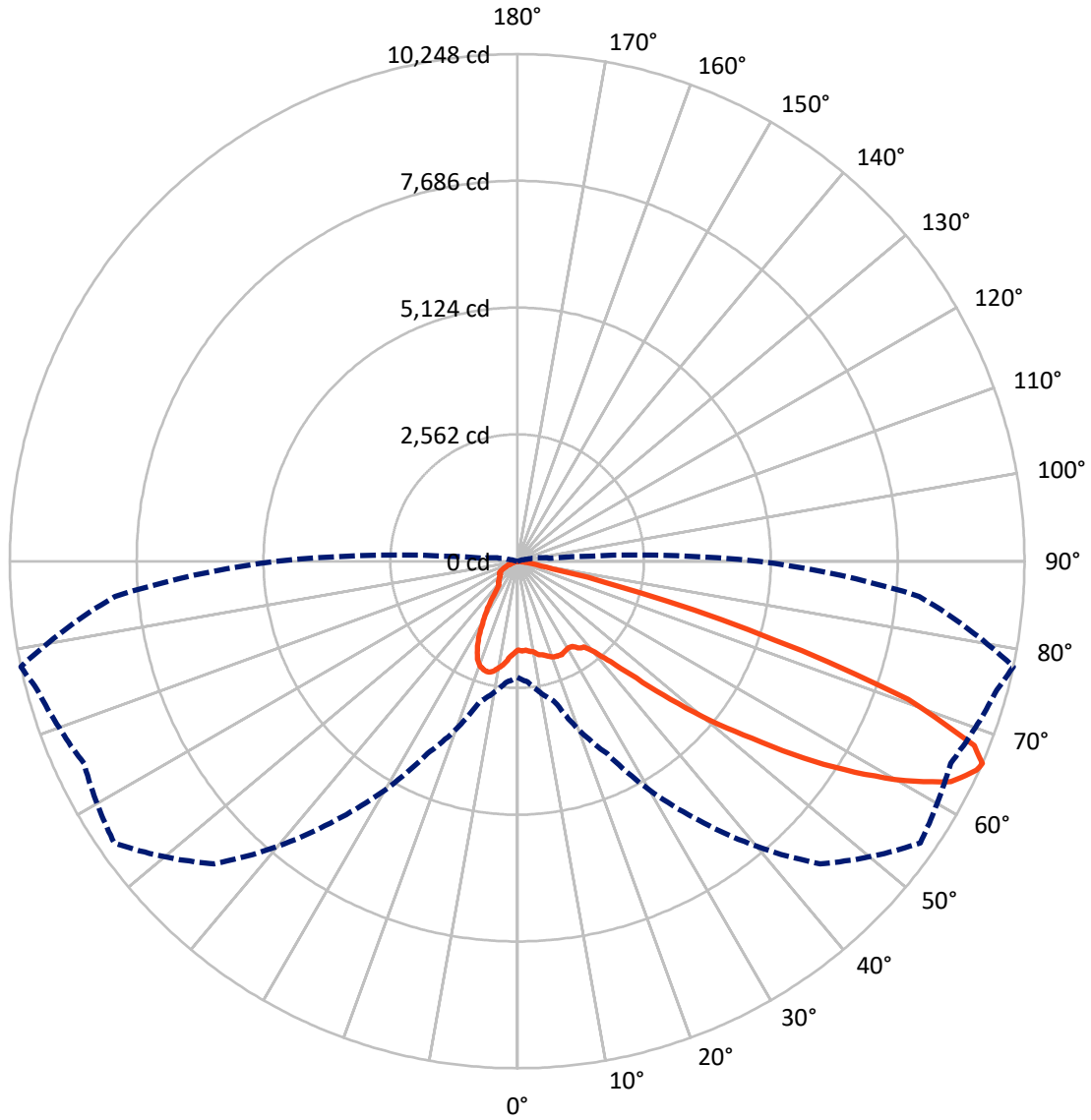
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	788.2	0.0	788.2
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	10422.6	0.0	10422.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	11210.7	0.0	11210.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	1.5
10°-20°	370.8	3.3
20°-30°	530.0	4.7
30°-40°	907.3	8.1
40°-50°	1637.5	14.6
50°-60°	2800.3	25.0
60°-70°	3446.7	30.7
70°-80°	1303.0	11.6
80°-90°	50.9	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°	11210.7	100.0
0°-180°	11210.7	100.0

**Coefficient of Utilization**

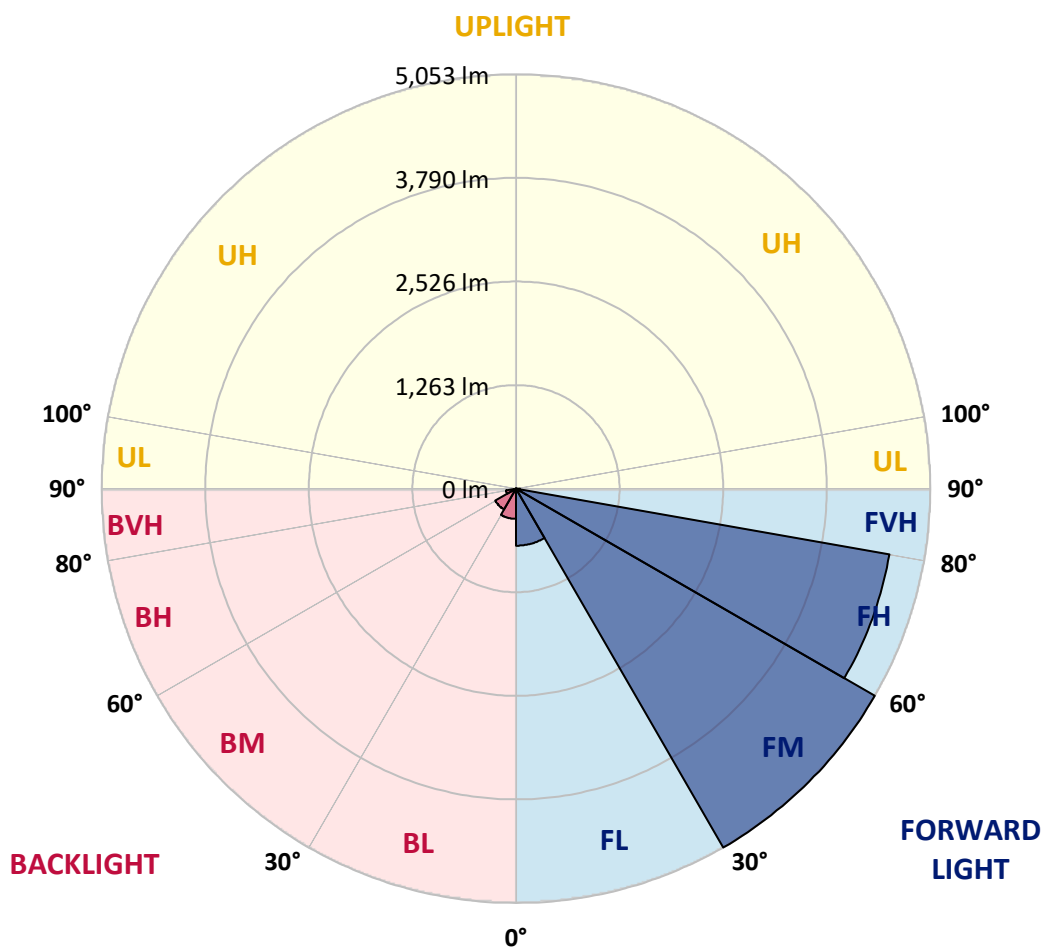


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.0	6.2			
FM (30°-60°)	5052.9	45.1			
FH (60°-80°)	4624.8	41.3			G2/5000
FVH (80°-90°)	48.9	0.4			G1/100
BL (0°-30°)	369.1	3.3	B1/500		
BM (30°-60°)	292.1	2.6	B1/1000		
BH (60°-80°)	124.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1651.6	1636.4	1651.6	1673.6	1685.5	1695.6	1731.2	1761.7	1793.9	1815.9	1809.1
5°	1531.3	1560.1	1563.5	1570.3	1588.9	1649.9	1670.2	1722.8	1802.4	1809.1	1839.6
7.5°	1436.5	1428.0	1450.0	1494.1	1541.5	1577.1	1636.4	1727.8	1810.8	1839.6	1898.9
10°	1299.3	1316.2	1339.9	1384.0	1441.6	1529.6	1634.7	1736.3	1854.9	1865.0	1975.2
12.5°	1224.7	1207.8	1245.1	1290.8	1389.0	1470.4	1599.1	1721.1	1882.0	1937.9	2064.9
15°	1163.7	1172.2	1207.8	1238.3	1319.6	1422.9	1573.7	1758.3	1927.7	1966.7	2159.8
17.5°	1138.3	1133.3	1160.4	1190.9	1290.8	1407.7	1563.5	1760.0	1968.4	2019.2	2224.2
20°	1150.2	1160.4	1151.9	1180.7	1243.4	1361.9	1578.8	1792.2	1998.9	2068.3	2293.6
22.5°	1336.5	1323.0	1255.2	1201.0	1204.4	1343.3	1566.9	1812.5	2026.0	2081.9	2341.0
25°	1822.7	1749.9	1582.2	1373.8	1236.6	1292.5	1553.4	1805.8	2020.9	2090.3	2369.8
27.5°	2312.2	2249.6	2085.3	1761.7	1367.0	1272.2	1505.9	1810.8	1995.5	2059.8	2322.4
30°	2828.9	2862.8	2618.9	2234.3	1709.2	1384.0	1475.4	1783.7	1978.5	2032.7	2332.6
32.5°	3359.1	3345.6	3198.2	2781.5	2198.8	1631.3	1524.6	1810.8	2000.6	2053.1	2391.9
35°	3774.1	3726.7	3577.6	3201.6	2603.6	2003.9	1694.0	1939.6	2097.1	2159.8	2476.6
37.5°	3979.1	3999.4	3913.0	3586.1	3047.4	2349.5	1905.7	1939.6	2127.6	2200.4	2613.8
40°	4138.3	4199.3	4167.1	4062.1	3487.9	2739.1	2139.5	2059.8	2281.8	2419.0	2871.3
42.5°	4329.7	4301.0	4490.7	4394.1	4063.8	3230.4	2549.4	2346.1	2646.0	2778.1	3257.5
45°	4431.4	4541.5	4685.5	4809.1	4597.4	3843.6	3084.7	2852.6	3203.3	3371.0	3831.7
47.5°	4692.3	4736.3	4970.1	5125.9	5031.0	4544.9	3897.8	3592.9	3904.6	4168.8	4489.0
50°	4844.7	4785.4	5112.4	5349.5	5403.7	5125.9	4626.2	4389.0	4738.0	5075.1	5103.9
52.5°	4710.9	4880.3	5207.2	5632.4	5783.2	5644.3	5481.6	5378.3	5623.9	5935.6	5796.7
55°	4241.7	4356.9	5153.0	5942.4	6428.6	6364.2	6515.0	6447.2	6694.5	7024.8	6606.4
57.5°	3863.9	4007.9	4707.5	6103.3	7029.9	7219.6	7409.4	7367.0	7665.1	8046.3	7292.5
60°	3628.5	3711.5	4385.6	6062.7	7385.6	8103.9	8532.5	8234.3	8720.5	9011.8	7829.5
62.5°	3220.2	3272.7	3916.4	5524.0	7492.4	8728.9	9455.7	9050.8	9472.6	9828.3	8215.7
65°	2581.6	2723.9	3255.8	4717.7	6787.7	8844.1	10031.6	9555.6	9963.8	10197.6	8332.6
66°	2349.5	2452.8	2940.7	4290.8	6386.2	8652.7	9935.0	9660.6	10035.0	10248.4	8153.0
67.5°	1949.7	2039.5	2427.4	3682.7	5564.6	8230.9	10002.8	9589.5	10089.2	9958.8	7912.5
70°	1290.8	1348.4	1660.1	2490.1	3875.8	6733.5	9277.8	9033.9	8869.5	8380.0	6186.3
72.5°	603.0	686.1	1036.7	1509.3	2273.3	4710.9	7565.2	7238.3	6220.2	5437.6	3902.9
75°	272.7	310.0	569.2	865.6	1019.8	2441.0	4880.3	4407.7	3096.5	2571.4	1709.2
77.5°	147.4	167.7	277.8	411.6	371.0	855.4	2415.6	2009.0	975.7	714.8	496.3
80°	113.5	133.8	232.1	235.5	137.2	221.9	897.8	621.7	243.9	184.6	118.6
82.5°	59.3	84.7	182.9	152.5	69.5	89.8	277.8	172.8	76.2	61.0	50.8
85°	23.7	37.3	103.3	101.6	40.7	30.5	77.9	52.5	30.5	25.4	23.7
87.5°	1.7	1.7	55.9	39.0	25.4	8.5	11.9	11.9	15.2	13.6	16.9
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°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1839.6	1860.0	1863.4	1919.3	1931.1	1919.3	1949.7	1944.7	1958.2	1948.0	1929.4
5°	1882.0	1910.8	1966.7	2009.0	2009.0	1975.2	1948.0	1912.5	1860.0	1846.4	1836.2
7.5°	1954.8	2046.3	2097.1	2070.0	2015.8	1888.8	1712.6	1583.8	1475.4	1434.8	1416.1
10°	2083.6	2134.4	2193.7	2083.6	1858.3	1588.9	1292.5	1097.7	945.2	911.3	885.9
12.5°	2166.6	2247.9	2281.8	2009.0	1566.9	1165.4	843.6	623.4	516.7	435.3	421.8
15°	2275.0	2368.1	2298.7	1807.4	1234.9	764.0	437.0	272.7	221.9	208.4	208.4
17.5°	2349.5	2451.2	2229.2	1556.7	875.8	406.5	216.8	188.0	184.6	186.3	182.9
20°	2479.9	2540.9	2124.2	1265.4	523.4	208.4	174.5	167.7	164.3	169.4	166.0
22.5°	2529.1	2585.0	1953.1	916.4	235.5	138.9	130.4	125.4	128.7	127.0	125.4
25°	2525.7	2554.5	1671.9	525.1	69.5	54.2	49.1	49.1	45.7	47.4	45.7
27.5°	2551.1	2479.9	1356.9	155.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2564.6	2359.7	965.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2571.4	2297.0	621.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2623.9	2171.7	266.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2659.5	2010.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2806.9	1959.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2998.3	1865.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3264.3	1724.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3616.6	1641.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3879.2	1511.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4212.9	1433.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4609.3	1436.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4970.1	1412.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5154.7	1207.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5115.7	977.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4980.2	767.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4887.1	679.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4604.2	543.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3664.0	372.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2330.9	228.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1074.0	105.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	337.1	64.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.1	40.7	13.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.7	28.8	11.9	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.8	11.9	5.1	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.4	6.8	3.4	3.4	1.7	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)