

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: P482912

Luminaire Tested: **IFLD-S-SA2D-760-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482912
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

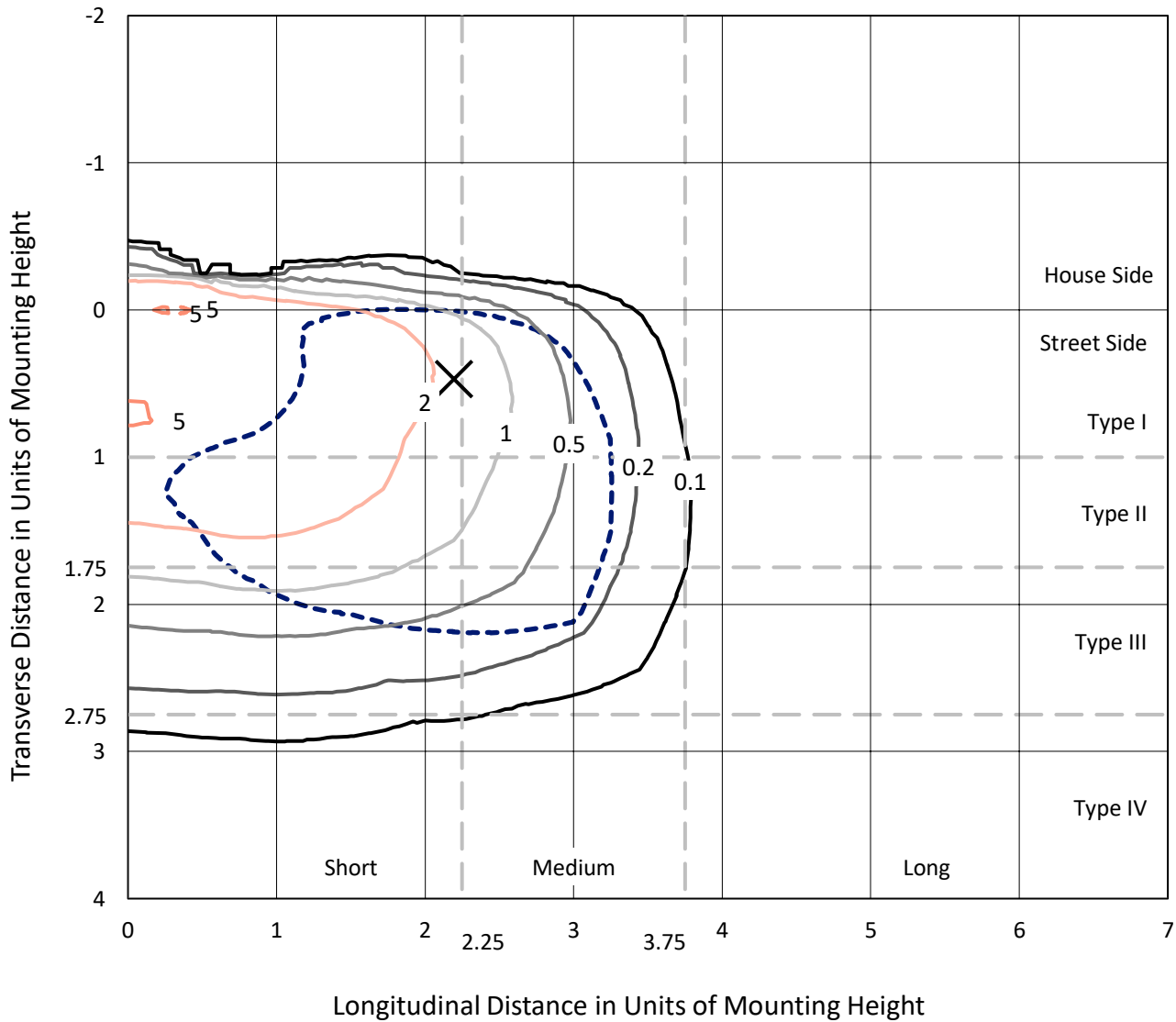
Lumens per Lamp: N/A
Luminaire Lumens: 11467.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

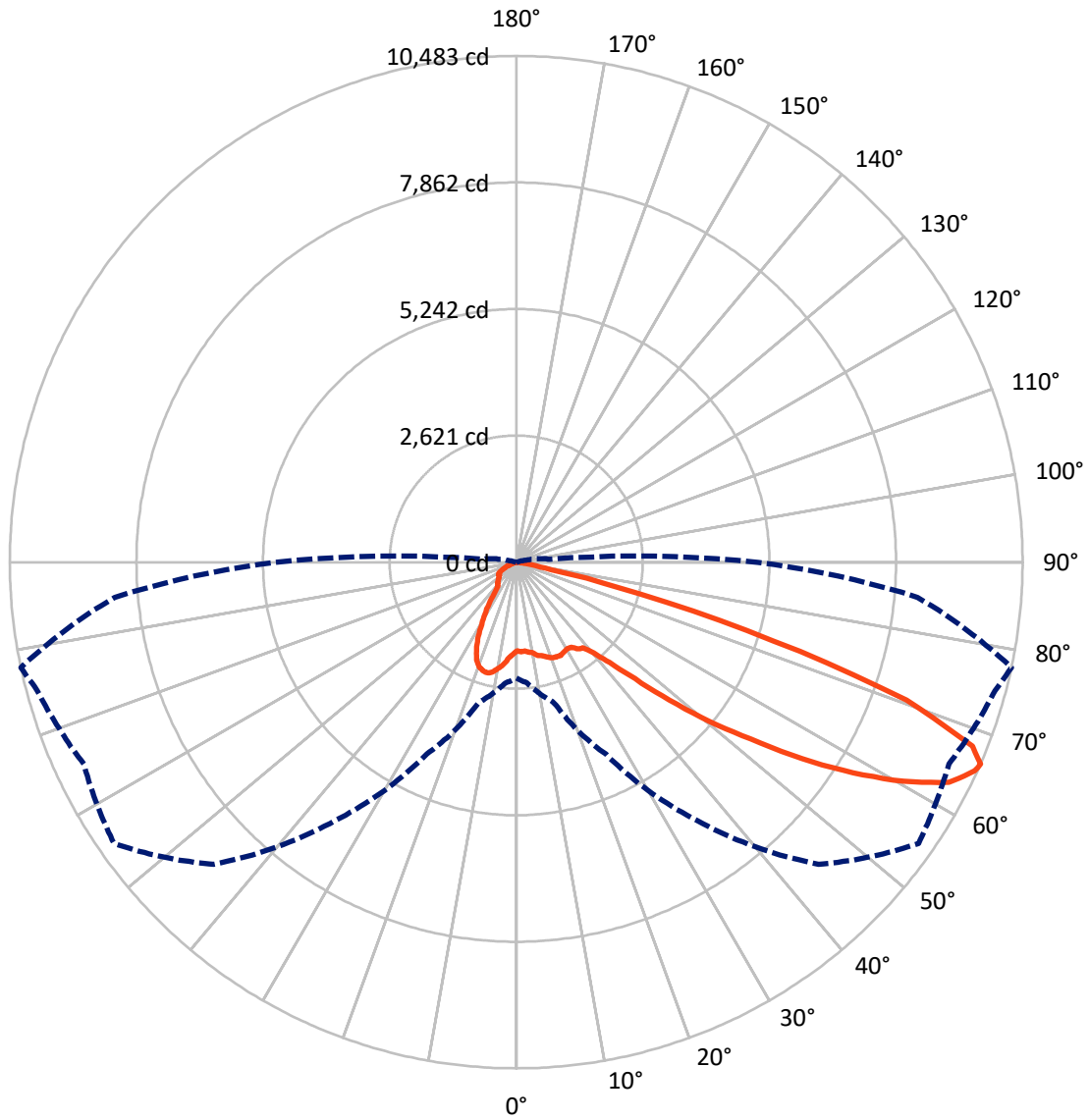
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2D-760-U-T3R-HSS

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	806.2	0.0	806.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	10661.2	0.0	10661.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	11467.4	0.0	11467.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.5
10°-20°	379.3	3.3
20°-30°	542.2	4.7
30°-40°	928.0	8.1
40°-50°	1675.0	14.6
50°-60°	2864.4	25.0
60°-70°	3525.6	30.7
70°-80°	1332.9	11.6
80°-90°	52.1	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°	11467.4	100.0
0°-180°	11467.4	100.0

Coefficient of Utilization

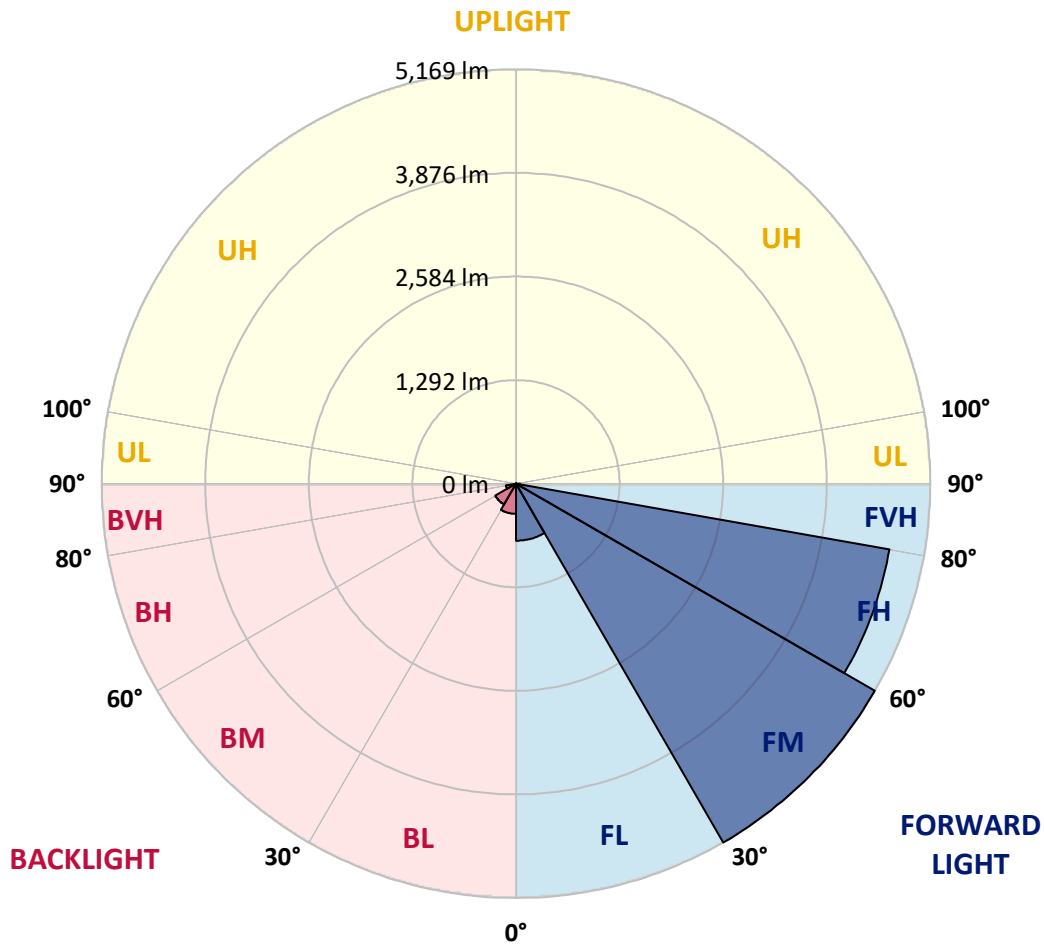


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.9	6.2			
FM (30°-60°)	5168.6	45.1			
FH (60°-80°)	4730.7	41.3			G2/5000
FVH (80°-90°)	50.0	0.4			G1/100
BL (0°-30°)	377.6	3.3	B1/500		
BM (30°-60°)	298.8	2.6	B1/1000		
BH (60°-80°)	127.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1689.4	1673.8	1689.4	1712.0	1724.1	1734.5	1770.9	1802.1	1835.0	1857.5	1850.6
5°	1566.4	1595.9	1599.3	1606.3	1625.3	1687.7	1708.5	1762.2	1843.6	1850.6	1881.8
7.5°	1469.4	1460.7	1483.2	1528.3	1576.8	1613.2	1673.8	1767.4	1852.3	1881.8	1942.4
10°	1329.0	1346.3	1370.6	1415.7	1474.6	1564.7	1672.1	1776.1	1897.4	1907.8	2020.4
12.5°	1252.8	1235.4	1273.6	1320.4	1420.9	1504.0	1635.7	1760.5	1925.1	1982.3	2112.2
15°	1190.4	1199.1	1235.4	1266.6	1349.8	1455.5	1609.7	1798.6	1971.9	2011.7	2209.3
17.5°	1164.4	1159.2	1186.9	1218.1	1320.4	1439.9	1599.3	1800.3	2013.5	2065.4	2275.1
20°	1176.5	1186.9	1178.3	1207.7	1271.8	1393.1	1614.9	1833.2	2044.6	2115.7	2346.1
22.5°	1367.1	1353.3	1284.0	1228.5	1232.0	1374.1	1602.8	1854.0	2072.4	2129.5	2394.7
25°	1864.4	1789.9	1618.4	1405.3	1264.9	1322.1	1588.9	1847.1	2067.2	2138.2	2424.1
27.5°	2365.2	2301.1	2133.0	1802.1	1398.3	1301.3	1540.4	1852.3	2041.2	2107.0	2375.6
30°	2893.7	2928.3	2678.8	2285.5	1748.3	1415.7	1509.2	1824.6	2023.8	2079.3	2386.0
32.5°	3436.0	3422.2	3271.4	2845.2	2249.1	1668.6	1559.5	1852.3	2046.4	2100.1	2446.6
35°	3860.6	3812.0	3659.6	3274.9	2663.2	2049.8	1732.7	1984.0	2145.1	2209.3	2533.3
37.5°	4070.2	4091.0	4002.6	3668.2	3117.2	2403.3	1949.3	1984.0	2176.3	2250.8	2673.6
40°	4233.1	4295.5	4262.6	4155.1	3567.7	2801.9	2188.5	2107.0	2334.0	2474.4	2937.0
42.5°	4428.9	4399.4	4593.5	4494.7	4156.9	3304.3	2607.8	2399.9	2706.5	2841.7	3332.1
45°	4532.9	4645.5	4792.8	4919.3	4702.7	3931.6	3155.3	2917.9	3276.6	3448.2	3919.5
47.5°	4799.7	4844.8	5083.9	5243.3	5146.3	4649.0	3987.0	3675.2	3994.0	4264.3	4591.8
50°	4955.7	4895.0	5229.4	5472.0	5527.5	5243.3	4732.1	4489.5	4846.5	5191.3	5220.8
52.5°	4818.8	4992.0	5326.5	5761.4	5915.6	5773.5	5607.2	5501.5	5752.7	6071.5	5929.5
55°	4338.8	4456.6	5271.0	6078.5	6575.8	6509.9	6664.1	6594.8	6847.8	7185.7	6757.7
57.5°	3952.4	4099.7	4815.3	6243.1	7190.9	7385.0	7579.0	7535.7	7840.7	8230.5	7459.5
60°	3711.5	3796.4	4486.1	6201.5	7554.8	8289.5	8727.8	8422.9	8920.2	9218.2	8008.8
62.5°	3294.0	3347.7	4006.1	5650.5	7663.9	8928.8	9672.2	9258.1	9689.5	10053.4	8403.8
65°	2640.7	2786.3	3330.3	4825.7	6943.1	9046.7	10261.3	9774.4	10192.0	10431.1	8523.4
66°	2403.3	2509.0	3008.0	4389.0	6532.5	8850.9	10162.6	9881.9	10264.8	10483.1	8339.7
67.5°	1994.4	2086.2	2483.0	3767.0	5692.1	8419.4	10231.9	9809.1	10320.2	10186.8	8093.7
70°	1320.4	1379.3	1698.1	2547.1	3964.5	6887.7	9490.3	9240.7	9072.7	8571.9	6328.0
72.5°	616.9	701.8	1060.4	1543.9	2325.3	4818.8	7738.4	7404.0	6362.6	5562.1	3992.2
75°	279.0	317.1	582.2	885.4	1043.1	2496.9	4992.0	4508.6	3167.5	2630.3	1748.3
77.5°	150.7	171.5	284.2	421.1	379.5	875.0	2470.9	2055.0	998.1	731.2	507.7
80°	116.1	136.9	237.4	240.9	140.4	227.0	918.4	635.9	249.5	188.9	121.3
82.5°	60.6	86.6	187.1	155.9	71.0	91.8	284.2	176.7	78.0	62.4	52.0
85°	24.3	38.1	105.7	104.0	41.6	31.2	79.7	53.7	31.2	26.0	24.3
87.5°	1.7	1.7	57.2	39.9	26.0	8.7	12.1	12.1	15.6	13.9	17.3
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°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1881.8	1902.6	1906.0	1963.2	1975.3	1963.2	1994.4	1989.2	2003.1	1992.7	1973.6
5°	1925.1	1954.5	2011.7	2055.0	2055.0	2020.4	1992.7	1956.3	1902.6	1888.7	1878.3
7.5°	1999.6	2093.2	2145.1	2117.4	2062.0	1932.0	1751.8	1620.1	1509.2	1467.6	1448.6
10°	2131.3	2183.3	2243.9	2131.3	1900.8	1625.3	1322.1	1122.8	966.9	932.2	906.2
12.5°	2216.2	2299.4	2334.0	2055.0	1602.8	1192.1	862.9	637.7	528.5	445.3	431.5
15°	2327.1	2422.4	2351.3	1848.8	1263.2	781.5	447.0	279.0	227.0	213.1	213.1
17.5°	2403.3	2507.3	2280.3	1592.4	895.8	415.9	221.8	192.3	188.9	190.6	187.1
20°	2536.7	2599.1	2172.9	1294.4	535.4	213.1	178.5	171.5	168.1	173.3	169.8
22.5°	2587.0	2644.2	1997.9	937.4	240.9	142.1	133.4	128.2	131.7	130.0	128.2
25°	2583.5	2613.0	1710.2	537.2	71.0	55.4	50.2	50.2	46.8	48.5	46.8
27.5°	2609.5	2536.7	1387.9	159.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2623.4	2413.7	987.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2630.3	2349.6	635.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2684.0	2221.4	272.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2720.4	2056.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2871.2	2004.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3067.0	1907.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3339.0	1763.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3699.4	1679.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3968.0	1545.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4309.3	1465.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4714.8	1469.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5083.9	1445.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5272.7	1235.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5232.9	999.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5094.3	784.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4999.0	694.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4709.6	556.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3747.9	381.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2384.3	233.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1098.6	107.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	344.8	65.8	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.1	41.6	13.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.8	29.5	12.1	5.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.5	12.1	5.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	6.9	3.5	3.5	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)