

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: P481531

Luminaire Tested: **IFLD-M-SA4B-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481531  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

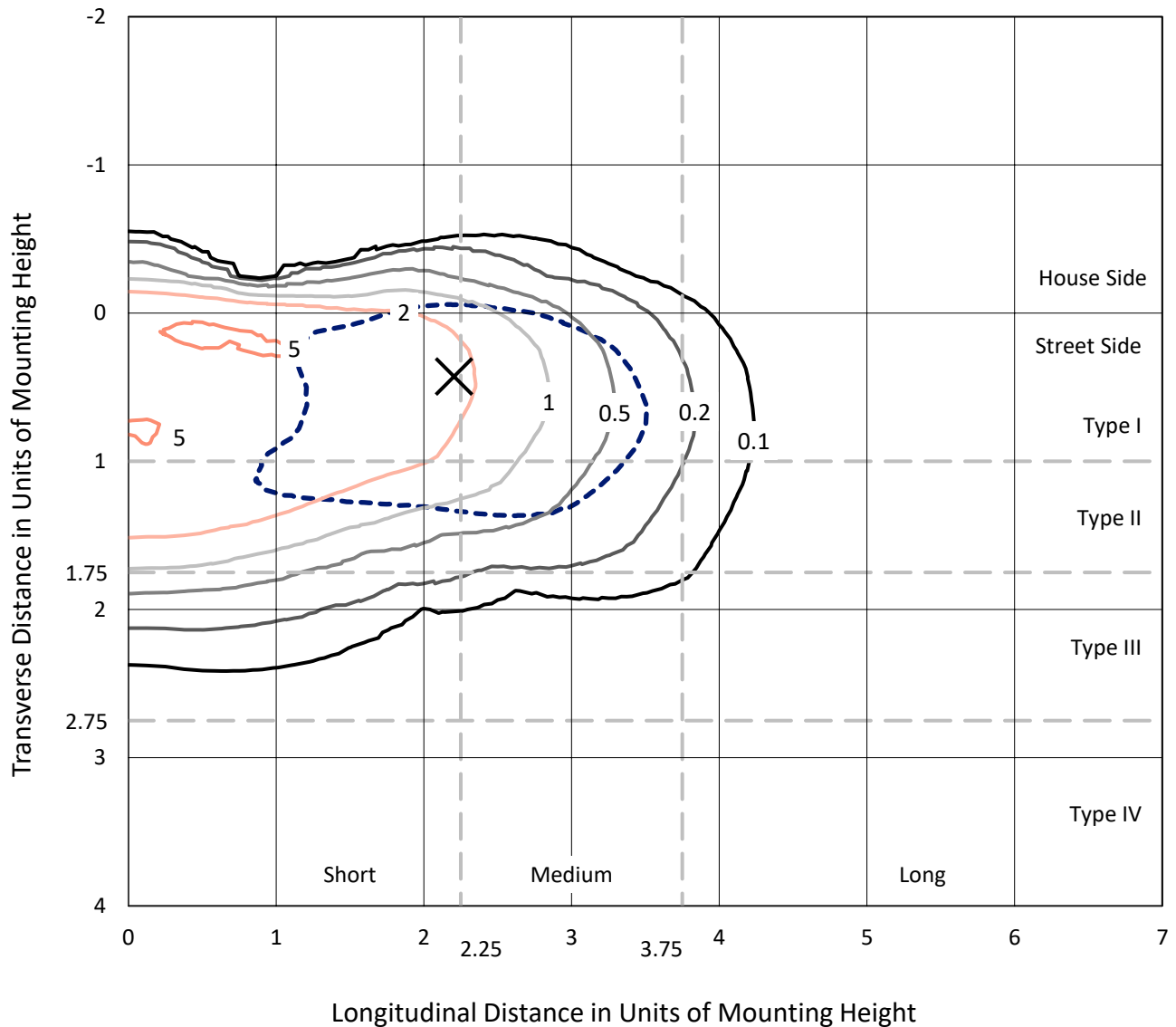
Lumens per Lamp: N/A  
Luminaire Lumens: 12115.3 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1  
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

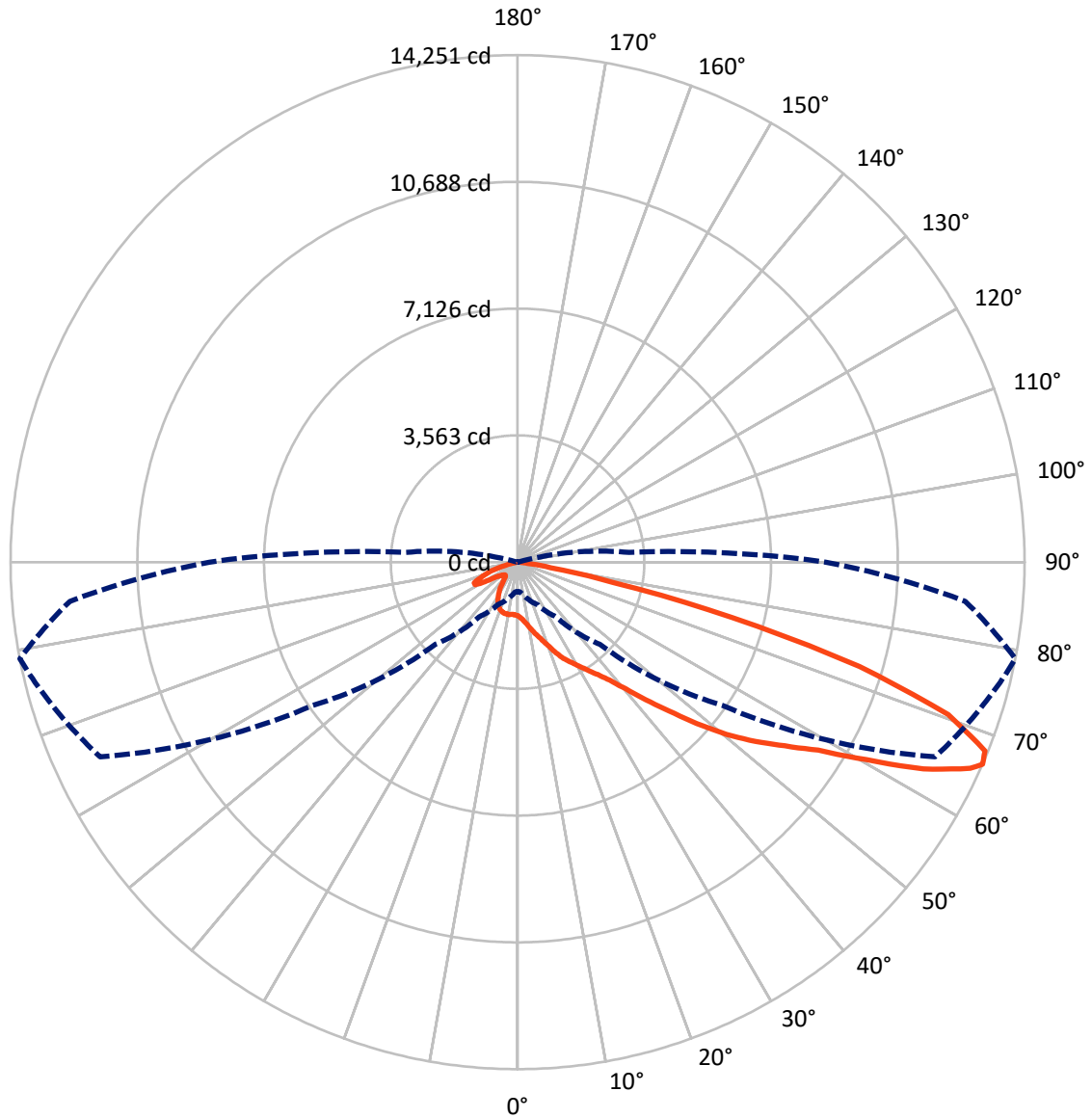
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	909.7	0.0	909.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	11205.6	0.0	11205.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	12115.3	0.0	12115.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	1.2
10°-20°	392.3	3.2
20°-30°	651.7	5.4
30°-40°	1119.4	9.2
40°-50°	2028.0	16.7
50°-60°	3205.6	26.5
60°-70°	3262.0	26.9
70°-80°	1244.0	10.3
80°-90°	69.7	0.6
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°	12115.3	100.0
0°-180°	12115.3	100.0

**Coefficient of Utilization**

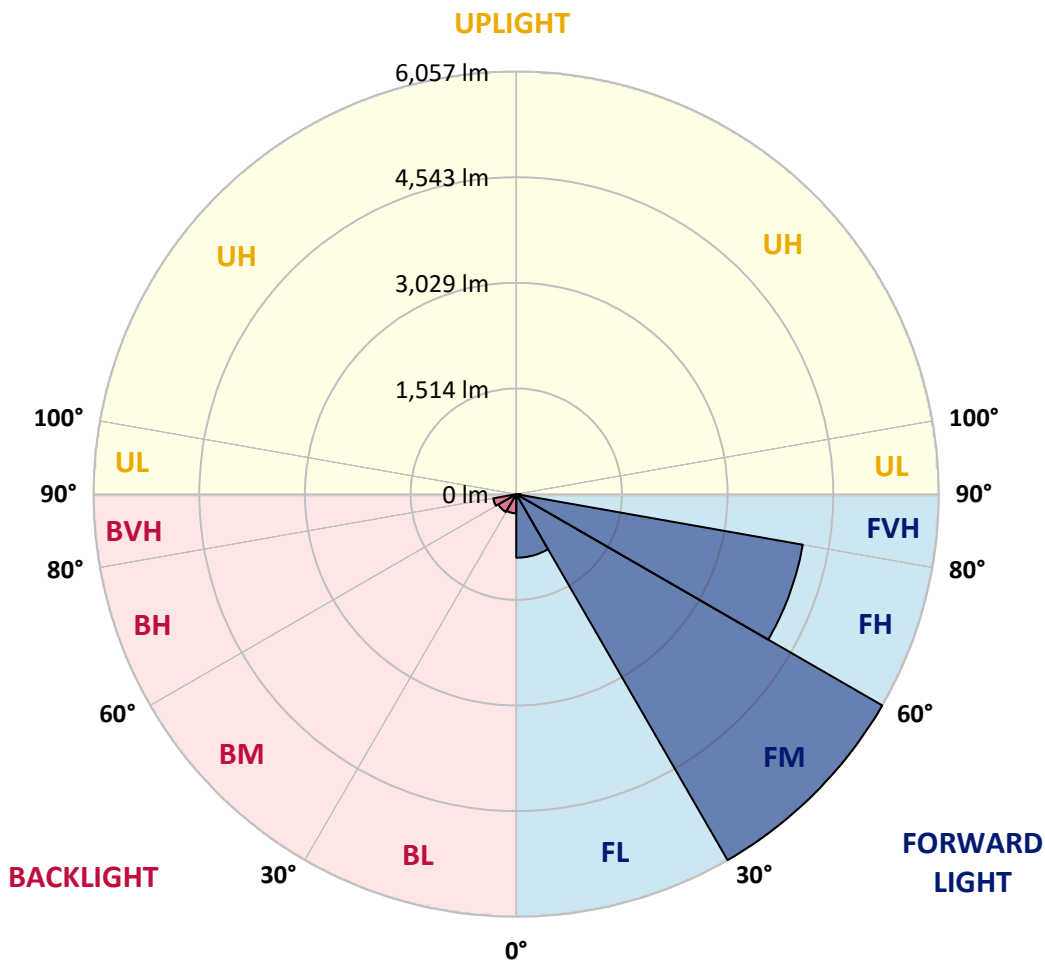


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.5	7.5			
FM (30°-60°)	6057.4	50.0			
FH (60°-80°)	4170.6	34.4			G2/5000
FVH (80°-90°)	66.2	0.5			G1/100
BL (0°-30°)	275.1	2.3	B1/500		
BM (30°-60°)	295.7	2.4	B1/1000		
BH (60°-80°)	335.4	2.8	B1/500		G1/500
BVH (80°-90°)	3.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1707.1	1705.3	1697.8	1684.7	1667.9	1662.3	1638.0	1604.4	1585.7	1565.2	1555.8
5°	1824.8	1815.5	1837.9	1828.5	1832.3	1787.4	1757.6	1733.3	1662.3	1634.3	1589.5
7.5°	1851.0	1860.3	1858.4	1873.4	1888.3	1905.1	1884.6	1849.1	1778.1	1737.0	1688.5
10°	1851.0	1847.2	1862.2	1882.7	1925.7	1963.0	2019.1	1972.4	1918.2	1869.6	1781.8
12.5°	1817.3	1811.7	1826.7	1869.6	1946.2	2022.8	2084.4	2129.3	2052.7	2013.4	1899.5
15°	1714.6	1709.0	1770.6	1847.2	1948.1	2073.2	2202.1	2274.9	2222.6	2161.0	2034.0
17.5°	1587.6	1595.1	1660.4	1787.4	1948.1	2097.5	2261.9	2420.6	2413.2	2334.7	2202.1
20°	1544.6	1550.2	1615.6	1707.1	1890.2	2114.3	2355.2	2579.4	2624.2	2530.8	2357.1
22.5°	1626.8	1621.2	1626.8	1682.9	1851.0	2099.4	2416.9	2760.6	2840.9	2768.0	2560.7
25°	1907.0	1903.3	1856.6	1770.6	1828.5	2065.7	2448.6	2880.1	3065.0	2997.8	2725.1
27.5°	2317.9	2303.0	2230.1	2050.8	1933.1	2086.3	2500.9	2995.9	3261.1	3184.5	2872.6
30°	2758.7	2723.2	2627.9	2403.8	2204.0	2162.9	2530.8	3081.8	3479.6	3382.5	3001.5
32.5°	3063.1	3109.8	3079.9	2852.1	2545.8	2340.3	2579.4	3190.1	3681.4	3617.9	3221.9
35°	3533.8	3588.0	3462.8	3261.1	2952.9	2622.3	2682.1	3277.9	3991.4	3884.9	3427.3
37.5°	4127.8	4168.8	4079.2	3696.3	3371.3	2969.7	2893.2	3461.0	4258.5	4208.1	3690.7
40°	4426.6	4624.6	4497.6	4152.0	3802.8	3455.4	3242.4	3675.8	4723.6	4682.5	4054.9
42.5°	4839.4	4938.4	4873.0	4617.1	4252.9	3974.6	3673.9	4094.1	5287.6	5287.6	4548.0
45°	5276.4	5280.2	5276.4	5067.2	4744.1	4600.3	4256.6	4619.0	5894.7	5961.9	5138.2
47.5°	5635.0	5747.1	5737.8	5612.6	5362.3	5308.2	4839.4	5216.7	6656.7	6774.4	5713.5
50°	5820.0	5945.1	5982.4	6047.8	6036.6	6150.5	5476.3	5909.6	7314.2	7603.7	6453.1
52.5°	5769.5	5778.9	6008.6	6266.3	6677.3	6996.6	6243.9	6695.9	8083.7	8369.4	7024.7
55°	5356.7	5321.3	5793.8	6088.9	6938.7	7514.0	7306.7	7676.5	8683.2	9118.4	7614.9
57.5°	4450.9	4460.2	4897.3	5496.8	6744.5	7719.5	8442.3	8957.8	9523.7	9962.7	8444.2
60°	3072.5	3061.3	3550.6	4243.6	5603.3	7336.6	9096.0	10618.2	10648.1	11270.1	9932.8
62.5°	1727.7	1731.4	2103.1	2695.2	3920.4	5995.5	9064.3	12381.4	12254.4	12799.8	11625.0
65°	978.7	1003.0	1258.9	1596.9	2347.8	4025.0	7796.0	13083.7	13492.7	13978.3	12652.2
66°	827.4	844.2	1062.8	1318.6	1873.4	3264.9	7017.2	12947.3	13881.2	14251.0	12631.7
67.5°	640.6	663.1	846.1	1045.9	1374.7	2260.0	5648.1	12269.3	13952.2	14168.9	12274.9
70°	438.9	453.9	593.9	793.8	939.5	1156.1	3376.9	10143.8	12659.7	12842.7	10668.7
72.5°	308.2	315.7	416.5	601.4	722.8	661.2	1675.4	7217.0	9688.1	10044.8	8298.5
75°	222.3	229.7	285.8	431.5	564.1	433.3	767.7	4609.6	5941.4	6221.5	4998.1
77.5°	160.6	170.0	194.2	278.3	409.0	304.4	377.3	2407.5	2801.6	2753.1	2149.8
80°	97.1	106.5	143.8	179.3	298.8	214.8	207.3	1004.9	993.7	943.2	676.1
82.5°	44.8	52.3	76.6	121.4	209.2	149.4	99.0	358.6	313.8	287.6	190.5
85°	13.1	16.8	44.8	91.5	106.5	72.8	59.8	123.3	128.9	110.2	63.5
87.5°	0.0	1.9	20.5	22.4	31.8	24.3	22.4	31.8	59.8	48.6	20.5
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°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1522.2	1509.2	1477.4	1428.8	1385.9	1363.5	1331.7	1303.7	1288.8	1286.9	1285.0
5°	1559.6	1524.1	1447.5	1359.7	1294.4	1223.4	1174.8	1139.3	1105.7	1074.0	1092.6
7.5°	1610.0	1554.0	1428.8	1314.9	1173.0	1081.4	995.5	945.1	915.2	887.2	883.5
10°	1688.5	1617.5	1415.8	1210.3	1047.8	913.3	825.6	752.7	711.6	663.1	681.7
12.5°	1794.9	1667.9	1367.2	1115.1	905.9	763.9	638.8	521.1	455.7	405.3	407.2
15°	1901.4	1735.2	1322.4	999.3	777.0	590.2	407.2	326.9	308.2	297.0	300.7
17.5°	2006.0	1789.3	1253.3	881.6	629.4	375.4	297.0	280.2	270.8	259.6	259.6
20°	2133.0	1824.8	1167.4	773.3	433.3	278.3	254.0	242.8	227.9	212.9	214.8
22.5°	2256.3	1854.7	1068.4	635.0	291.4	240.9	212.9	198.0	184.9	170.0	170.0
25°	2379.5	1864.0	939.5	455.7	235.3	192.4	166.2	145.7	132.6	119.5	121.4
27.5°	2463.6	1806.1	818.1	291.4	188.6	145.7	115.8	99.0	87.8	74.7	74.7
30°	2512.1	1699.7	687.3	205.5	142.0	99.0	69.1	52.3	41.1	31.8	29.9
32.5°	2560.7	1613.7	539.8	156.9	93.4	52.3	26.1	9.3	0.0	0.0	0.0
35°	2657.8	1516.6	362.3	87.8	31.8	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2719.5	1382.1	166.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2874.5	1314.9	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3126.6	1268.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3403.1	1249.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3771.0	1300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4159.5	1436.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4585.4	1565.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4957.0	1720.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5640.6	2086.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6867.8	2805.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8249.9	3339.6	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8756.1	3326.5	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8666.4	3143.4	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8201.3	2792.3	31.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7043.3	2306.7	31.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5369.8	1796.8	29.9	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3240.6	956.3	24.3	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1290.6	336.2	18.7	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	349.3	100.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	37.4	9.3	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.5	14.9	7.5	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	3.7	3.7	1.9	1.9	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)