

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: P483377

Luminaire Tested: **IFLD-S-SA2A-830-U-T4FT-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483377  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

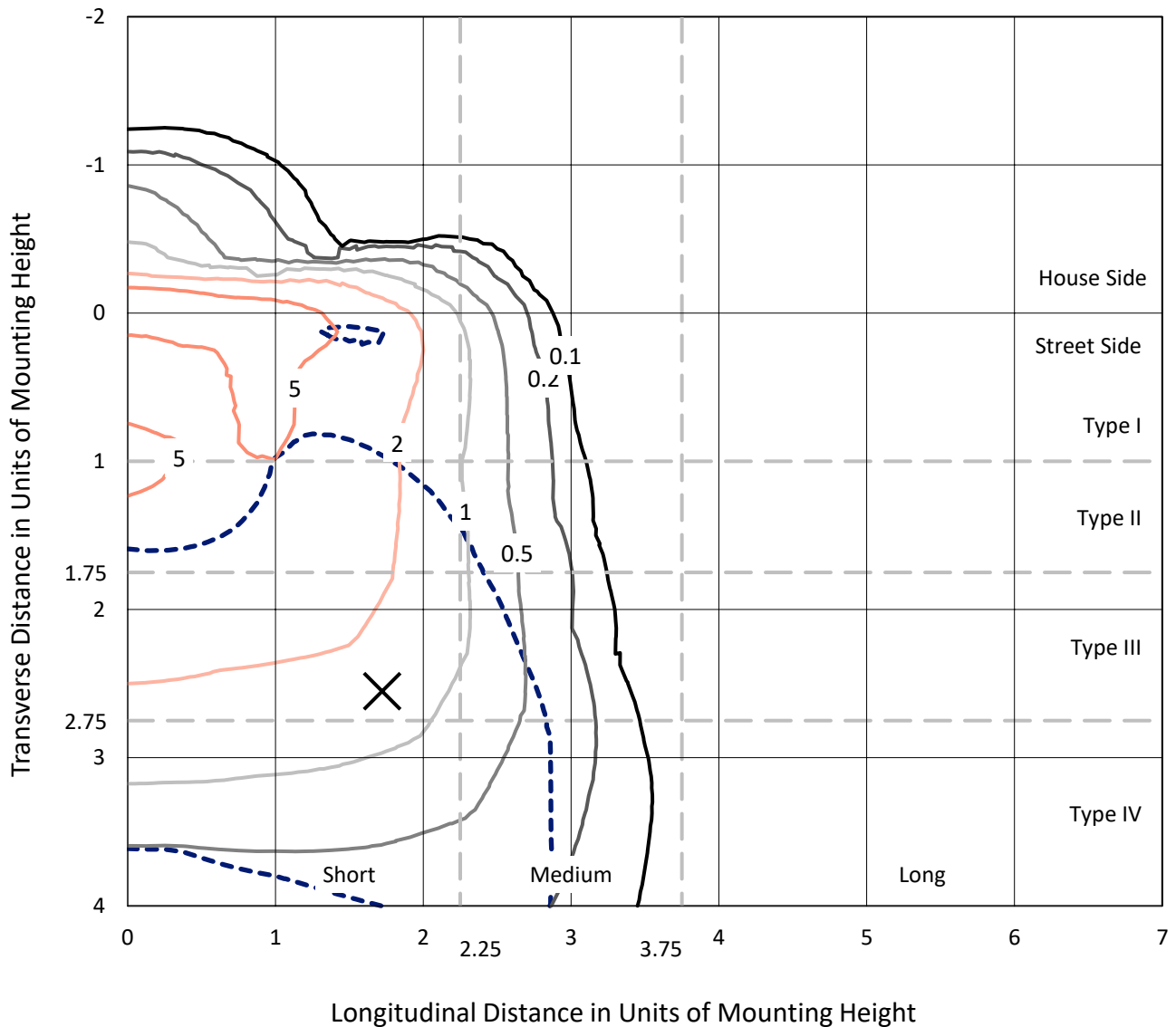
Lumens per Lamp: N/A  
Luminaire Lumens: 5304.5 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

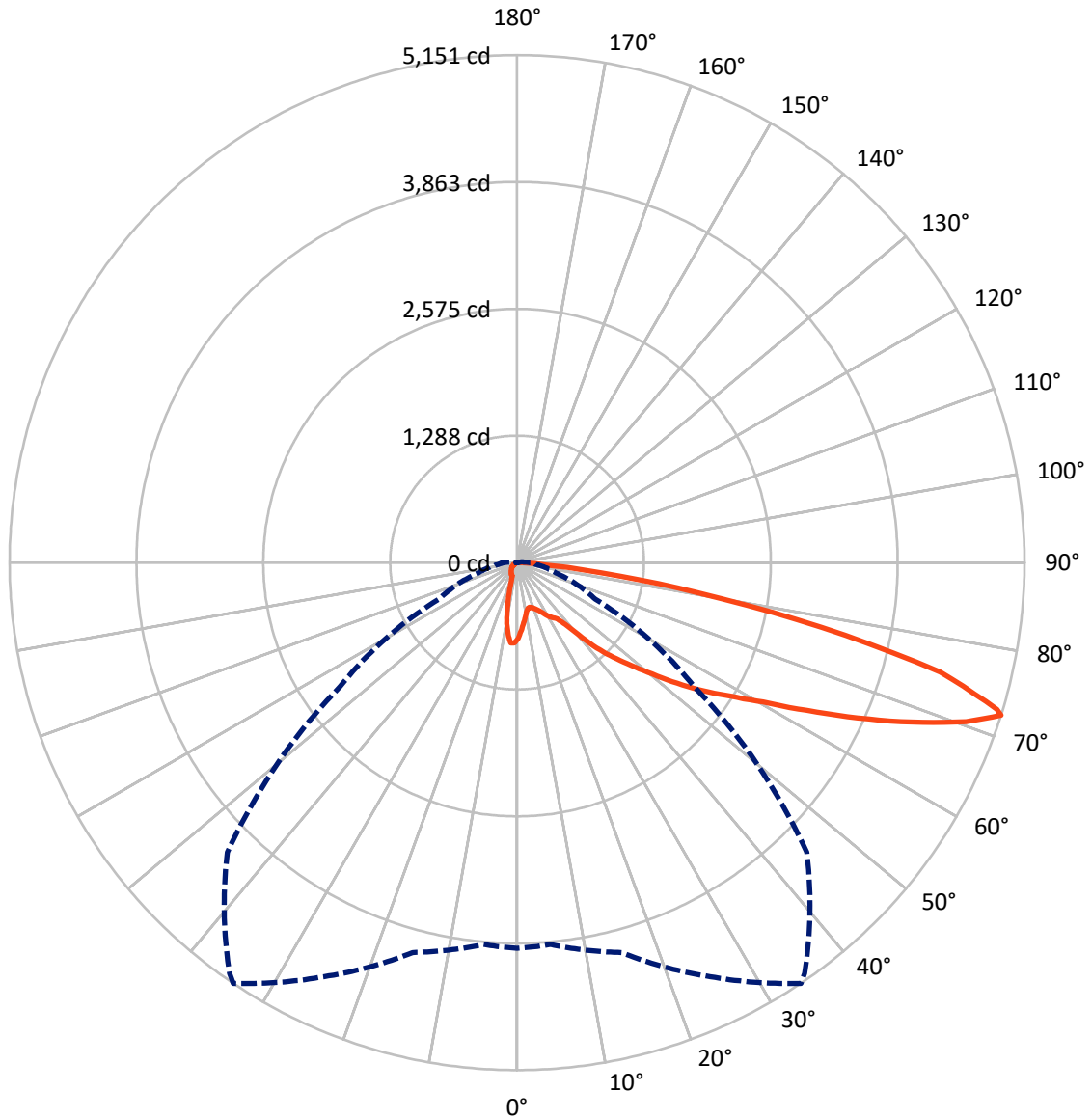
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	543.1	0.0	543.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	4761.5	0.0	4761.5
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	5304.5	0.0	5304.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	1.3
10°-20°	152.5	2.9
20°-30°	230.2	4.3
30°-40°	373.6	7.0
40°-50°	702.5	13.2
50°-60°	1148.6	21.7
60°-70°	1526.9	28.8
70°-80°	1022.6	19.3
80°-90°	80.1	1.5
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°	5304.5	100.0
0°-180°	5304.5	100.0



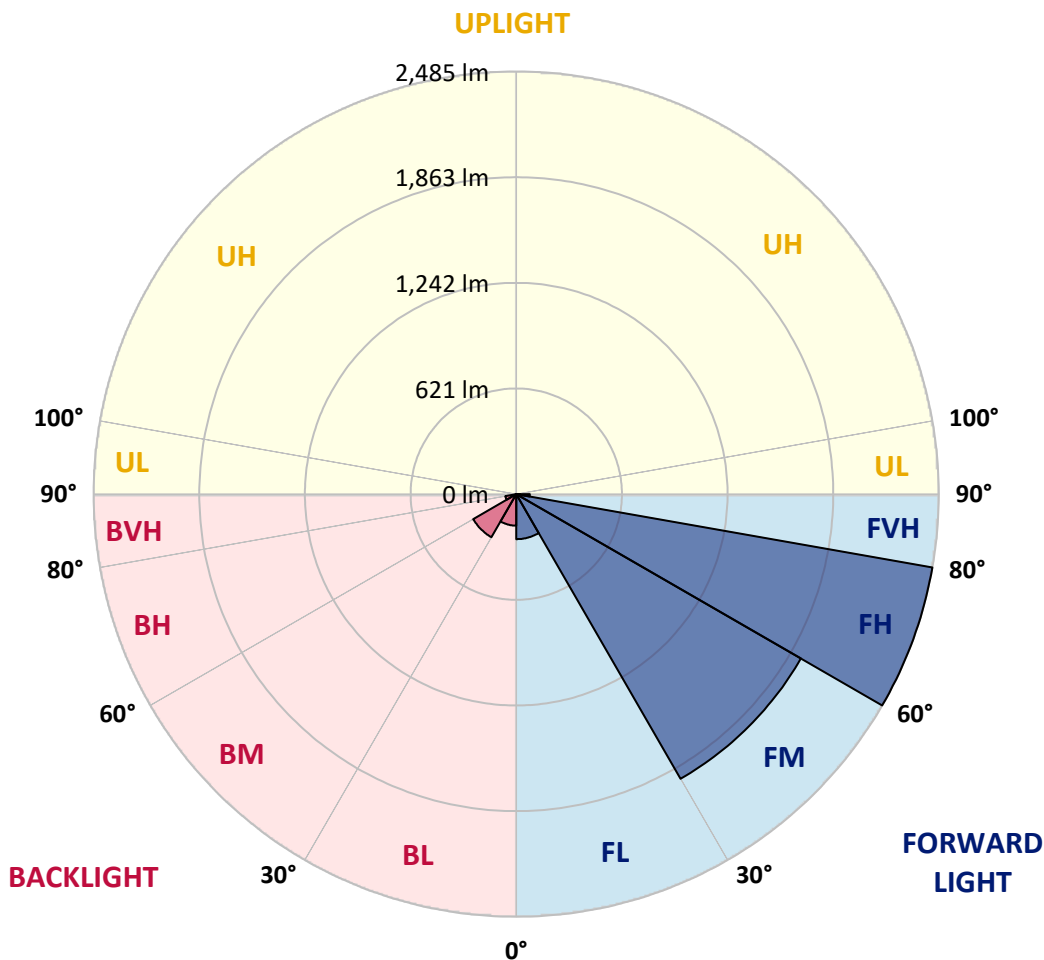
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.8	5.0			
FM (30°-60°)	1932.4	36.4			
FH (60°-80°)	2484.6	46.8			G2/5000
FVH (80°-90°)	79.6	1.5			G1/100
BL (0°-30°)	185.3	3.5	B1/500		
BM (30°-60°)	292.3	5.5	B1/1000		
BH (60°-80°)	64.9	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1
2.5°	686.3	684.8	689.4	697.1	704.7	701.7	716.2	731.6	742.3	756.9	774.5
5°	599.7	603.5	608.1	623.5	633.4	635.7	662.6	682.5	715.5	749.2	780.7
7.5°	520.7	525.3	534.5	551.4	572.1	577.4	604.3	644.2	687.1	731.6	783.0
10°	463.2	467.8	477.7	488.5	516.1	516.1	552.9	608.1	664.1	716.2	783.7
12.5°	450.9	453.2	452.4	460.9	478.5	482.4	518.4	579.0	644.2	710.9	796.0
15°	465.5	467.0	459.3	454.7	470.1	473.9	507.7	561.3	631.1	713.9	815.9
17.5°	494.6	489.3	473.9	467.0	480.0	482.4	513.8	560.6	629.6	722.4	838.9
20°	511.5	517.6	490.8	477.7	496.2	499.2	533.0	572.8	637.3	736.9	871.1
22.5°	541.4	544.5	508.4	500.0	517.6	517.6	556.0	597.4	655.7	760.7	909.5
25°	583.6	579.7	537.6	529.1	546.0	552.9	591.2	636.5	684.0	783.0	944.8
27.5°	616.5	618.8	584.3	562.1	590.5	595.1	636.5	678.7	705.5	801.4	987.7
30°	665.6	661.0	624.2	598.9	634.2	635.0	674.8	718.5	746.9	834.3	1052.1
32.5°	723.9	714.7	672.5	636.5	664.9	671.8	712.4	776.1	811.3	896.5	1151.8
35°	847.4	825.1	756.1	700.1	702.4	705.5	768.4	859.6	900.3	975.4	1285.2
37.5°	1027.6	1018.4	940.2	833.6	792.9	783.7	854.3	970.1	1020.7	1079.7	1458.6
40°	1206.3	1193.2	1120.4	1039.9	966.2	947.8	983.1	1116.5	1162.5	1224.7	1636.5
42.5°	1404.9	1381.9	1296.0	1230.8	1184.8	1164.8	1151.0	1300.6	1352.7	1394.9	1810.5
45°	1605.8	1568.2	1444.0	1394.1	1369.6	1358.9	1357.3	1532.2	1563.6	1572.0	2003.8
47.5°	1782.2	1741.5	1628.8	1572.8	1554.4	1551.3	1637.2	1799.0	1774.5	1752.3	2219.3
50°	1917.9	1891.8	1810.5	1790.6	1776.8	1771.4	1972.3	2073.6	1960.1	1921.0	2408.7
52.5°	2128.0	2069.7	1977.7	1984.6	2032.9	2033.7	2312.1	2334.3	2114.2	2036.8	2587.4
55°	2296.0	2257.6	2182.5	2172.5	2299.8	2313.6	2616.5	2532.1	2200.1	2147.2	2653.3
57.5°	2493.8	2476.2	2421.7	2423.3	2556.7	2585.8	2887.2	2699.3	2271.4	2218.5	2663.3
60°	2779.8	2729.2	2700.9	2713.9	2871.1	2899.5	3149.5	2819.7	2305.9	2265.3	2638.7
62.5°	3095.8	3036.7	3006.1	3072.8	3302.1	3306.7	3348.8	2926.3	2284.5	2277.6	2480.8
65°	3476.1	3417.9	3393.3	3527.5	3799.8	3782.9	3628.7	2971.6	2216.2	2154.1	2065.9
67.5°	3855.0	3819.7	3769.1	3983.0	4322.0	4322.0	3919.4	2954.7	2037.5	1729.3	1351.2
70°	4034.4	4058.9	4139.5	4475.4	4835.0	4798.2	4206.2	2760.7	1516.8	928.7	531.4
72°	3914.8	3889.5	4097.3	4636.4	5150.9	5090.4	4157.9	2194.7	876.5	407.2	184.8
72.5°	3709.3	3733.0	4019.1	4614.2	5091.9	5141.7	4039.8	2024.5	720.8	324.4	139.6
75°	2274.5	2315.1	2999.9	3917.8	4437.0	4381.0	3124.9	964.7	276.8	138.0	49.8
77.5°	830.5	864.2	1455.5	2465.4	3155.6	3120.3	1808.2	342.8	150.3	102.8	25.3
80°	216.3	233.9	494.6	1137.2	1855.8	1858.1	756.9	137.3	102.0	84.4	15.3
82.5°	42.9	47.5	151.8	442.5	867.3	855.8	239.3	73.6	76.7	69.0	10.7
85°	5.4	6.9	32.2	150.3	280.7	251.5	59.0	36.8	56.7	53.7	6.9
87.5°	0.8	0.8	7.7	34.5	59.0	57.5	12.3	11.5	25.3	33.0	3.8
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°	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1	776.1
2.5°	784.5	787.6	798.3	807.5	818.2	821.3	816.7	824.4	813.6	819.8	821.3
5°	786.0	803.7	823.6	836.6	833.6	825.9	819.8	799.1	784.5	779.1	790.6
7.5°	796.8	816.7	838.2	838.2	821.3	781.4	743.1	706.3	675.6	660.3	673.3
10°	810.6	831.3	853.5	824.4	761.5	688.6	634.2	565.2	518.4	493.9	496.2
12.5°	829.0	858.1	865.8	798.3	694.0	585.9	487.0	391.1	346.6	311.3	312.1
15°	852.7	881.1	858.1	741.5	608.1	448.6	329.7	238.5	203.2	184.8	184.8
17.5°	884.2	905.7	855.8	689.4	492.3	306.7	202.4	161.0	153.4	150.3	150.3
20°	921.0	937.1	833.6	608.1	365.8	197.1	148.8	144.2	144.9	143.4	143.4
22.5°	962.4	967.8	808.3	513.8	247.7	145.7	138.8	139.6	140.3	138.8	139.6
25°	1006.1	991.5	771.5	403.4	164.9	132.7	134.2	135.7	136.5	137.3	137.3
27.5°	1055.2	1026.0	720.1	295.2	128.8	125.0	129.6	134.2	135.0	135.0	134.2
30°	1127.3	1079.0	670.2	200.1	113.5	116.6	124.2	129.6	133.4	133.4	132.7
32.5°	1218.5	1134.2	600.4	136.5	105.1	106.6	112.7	123.5	131.9	132.7	130.4
35°	1345.1	1200.9	527.6	108.9	98.9	99.7	103.5	112.0	126.5	131.1	130.4
37.5°	1478.5	1276.8	437.1	98.2	94.3	93.6	95.9	102.8	115.8	127.3	128.1
40°	1620.4	1356.6	342.0	92.8	90.5	89.0	89.7	92.8	102.8	117.3	120.4
42.5°	1753.8	1428.6	256.9	87.4	86.7	85.1	85.1	85.9	91.3	101.2	102.8
45°	1898.0	1487.7	195.5	83.6	81.3	82.1	79.0	77.5	81.3	82.1	81.3
47.5°	2032.9	1546.7	156.4	79.0	76.7	76.7	72.9	69.8	69.8	62.9	62.1
50°	2159.5	1578.9	125.0	72.9	72.1	71.3	65.9	60.6	56.0	47.5	46.0
52.5°	2264.5	1577.4	96.6	65.2	67.5	65.2	56.7	49.1	42.2	34.5	33.0
55°	2296.0	1503.8	72.9	53.7	57.5	54.4	45.2	38.3	30.7	24.5	23.8
57.5°	2269.1	1391.8	55.2	41.4	44.5	41.4	34.5	28.4	21.5	16.9	15.3
60°	2179.4	1260.7	42.9	32.2	33.7	31.4	26.1	21.5	15.3	10.7	9.2
62.5°	2009.2	1096.6	33.0	25.3	24.5	24.5	19.9	16.1	10.7	6.1	5.4
65°	1648.7	855.0	25.3	17.6	17.6	17.6	15.3	11.5	6.9	3.1	1.5
67.5°	1035.3	497.7	20.7	13.8	13.0	13.0	10.7	7.7	3.8	0.8	0.0
70°	389.6	182.5	16.1	10.7	10.0	10.0	7.7	4.6	2.3	0.0	0.0
72°	134.2	69.8	13.0	7.7	7.7	6.9	5.4	3.8	1.5	0.0	0.0
72.5°	110.4	56.0	12.3	7.7	6.9	6.9	5.4	3.8	1.5	0.0	0.0
75°	39.9	23.0	8.4	5.4	4.6	4.6	3.8	2.3	0.8	0.0	0.0
77.5°	19.9	14.6	6.9	4.6	3.8	2.3	2.3	1.5	0.8	0.0	0.0
80°	12.3	9.2	3.8	3.1	2.3	1.5	0.8	0.8	0.0	0.0	0.0
82.5°	8.4	5.4	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.3	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.5	0.8	0.0	0.0	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)