

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: P483728

Luminaire Tested: **IFLD-S-SA2A-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483728  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

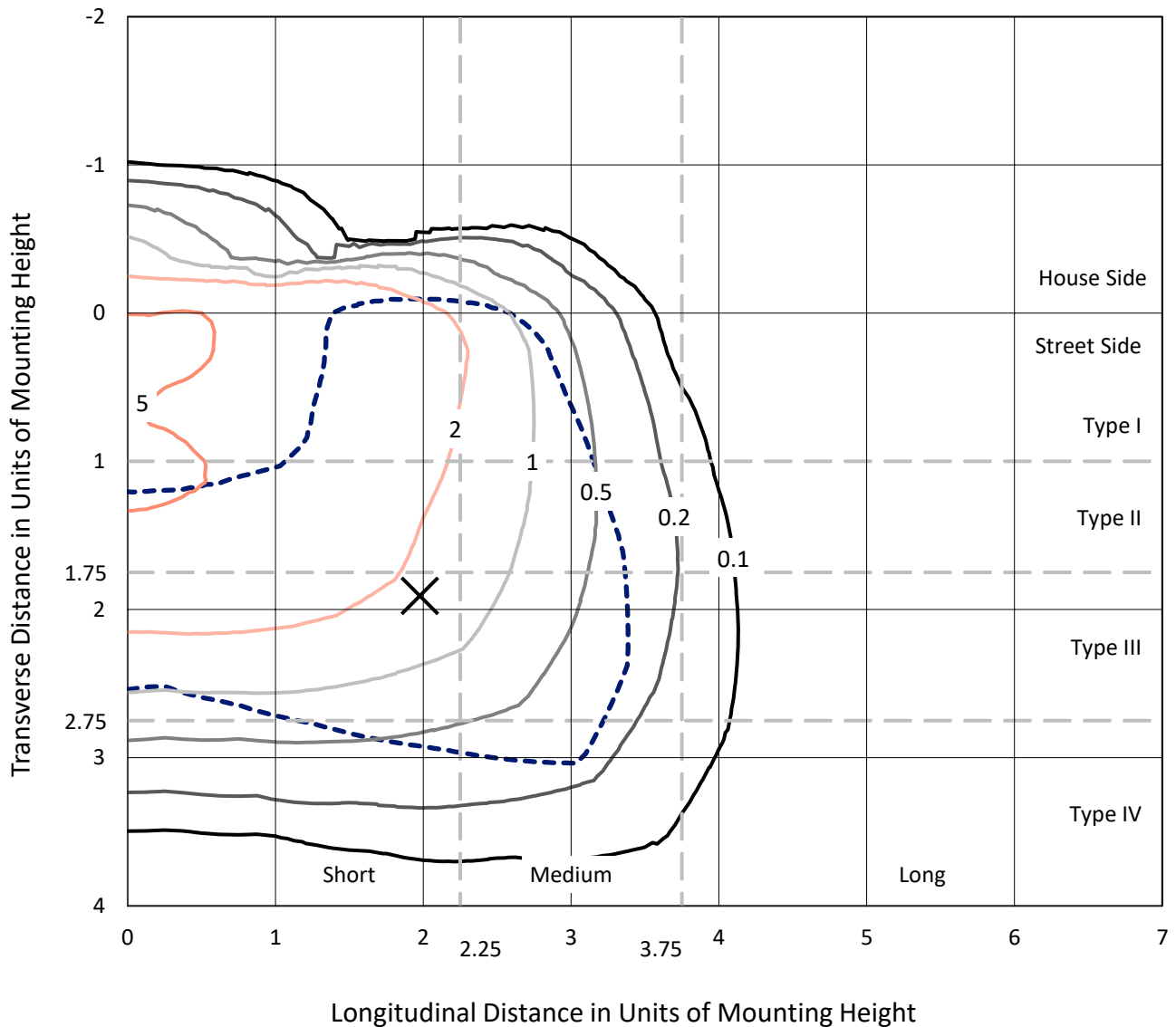
Lumens per Lamp: N/A  
Luminaire Lumens: 5007.4 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (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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 CATALOG NUMBER: IFLD-S-SA2A-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

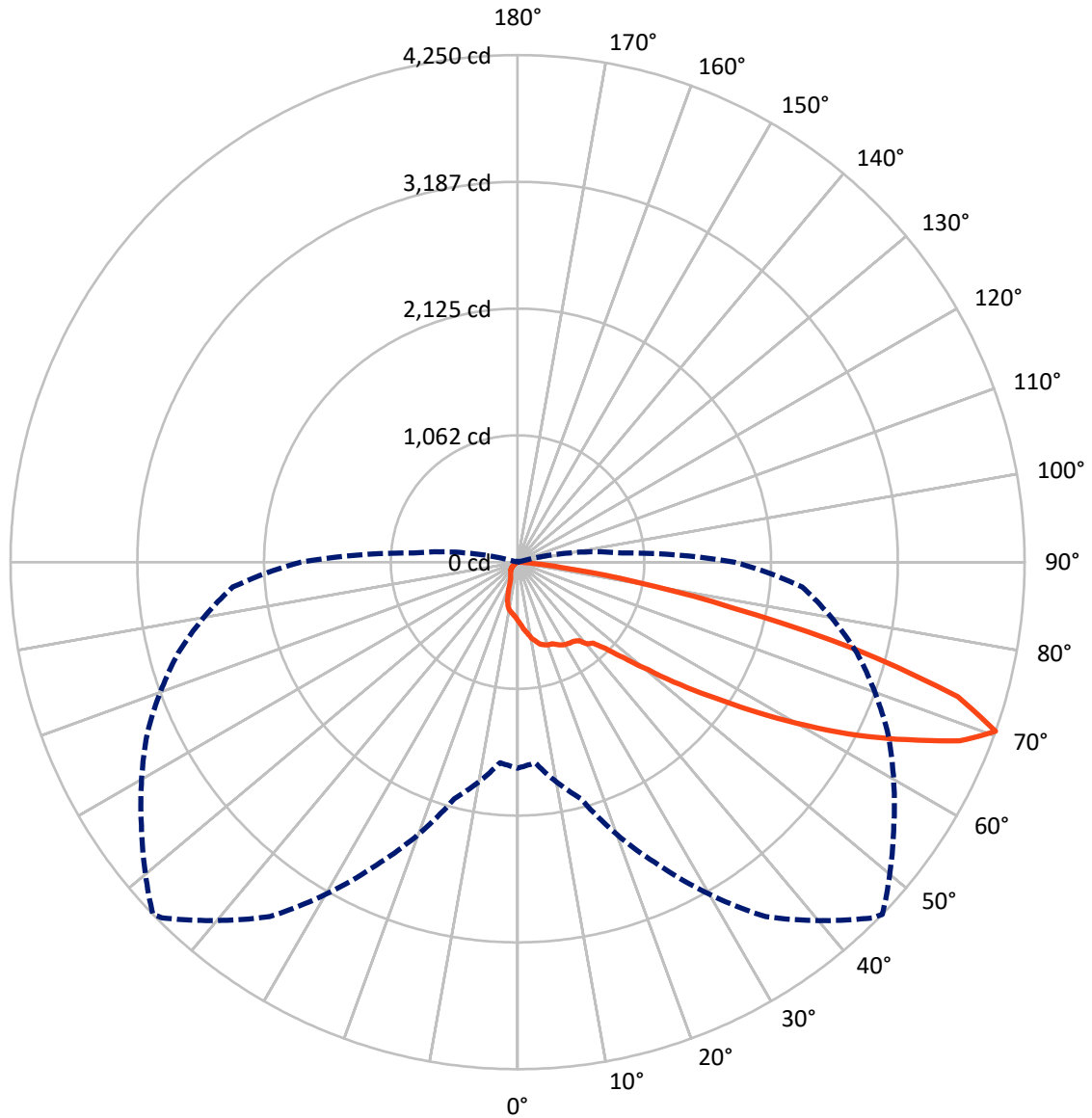
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	498.2	0.0	498.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	4509.2	0.0	4509.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	5007.4	0.0	5007.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	1.0
10°-20°	148.0	3.0
20°-30°	237.1	4.7
30°-40°	338.4	6.8
40°-50°	584.4	11.7
50°-60°	1118.8	22.3
60°-70°	1656.8	33.1
70°-80°	820.6	16.4
80°-90°	54.2	1.1
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°	5007.4	100.0
0°-180°	5007.4	100.0

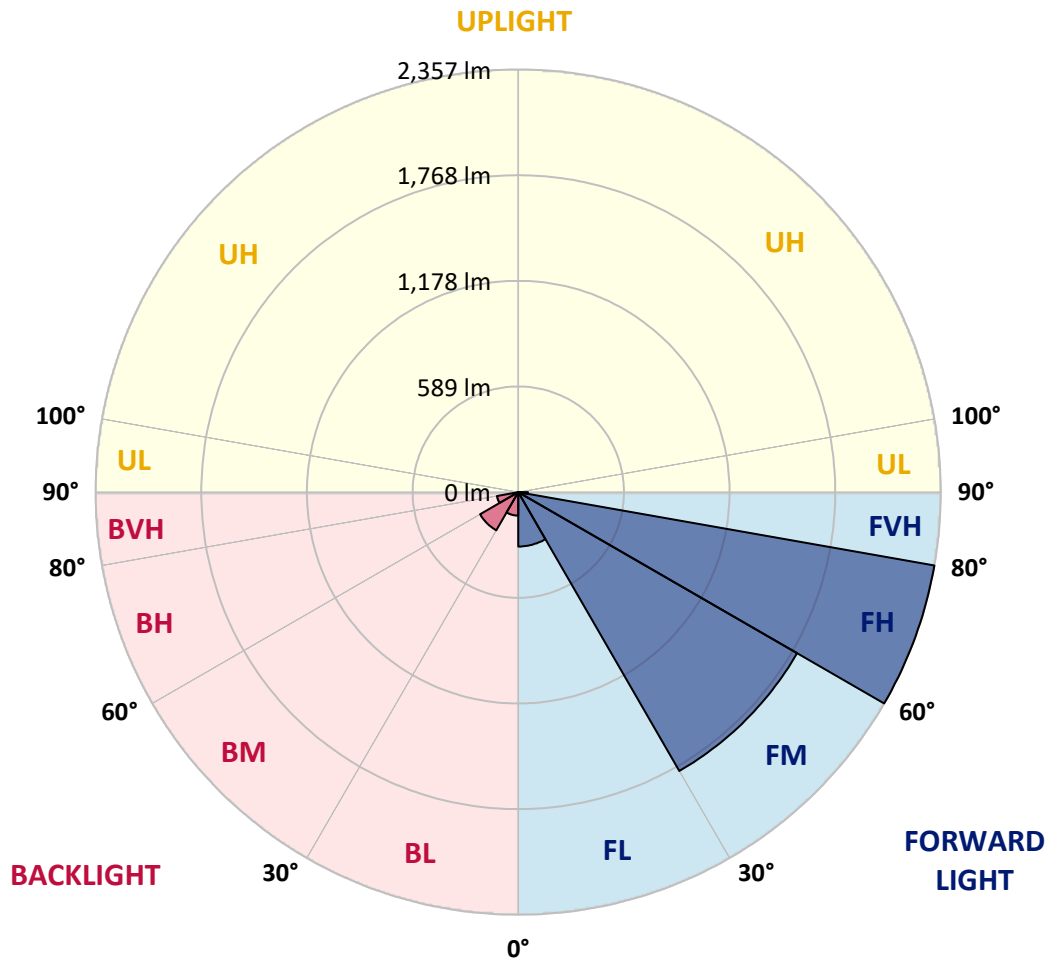


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.2	6.1			
FM (30°-60°)	1795.6	35.9			
FH (60°-80°)	2356.7	47.1			G2/5000
FVH (80°-90°)	53.5	1.1			G1/100
BL (0°-30°)	130.9	2.6	B1/500		
BM (30°-60°)	246.0	4.9	B1/1000		
BH (60°-80°)	120.7	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	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°	35°	45°	46°	55°	65°	75°	85°
0°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	548.5	544.9	539.1	537.0	531.2	528.3	524.0	521.8	513.9	506.0	500.9
5°	615.5	606.9	609.8	601.1	582.4	567.3	566.5	550.0	531.9	517.5	498.1
7.5°	683.3	676.1	665.3	653.0	632.1	609.8	603.3	587.4	562.2	537.0	511.0
10°	734.5	729.4	720.1	702.8	673.9	648.7	649.4	622.8	596.1	567.3	531.9
12.5°	766.2	768.3	754.7	737.4	712.1	680.4	679.7	661.7	631.4	601.1	559.3
15°	797.9	805.8	784.9	764.7	732.3	709.2	713.6	691.9	662.4	627.8	581.7
17.5°	802.9	805.1	800.8	771.2	747.4	728.0	728.7	714.3	691.9	654.5	614.8
20°	794.3	792.9	787.8	766.2	750.3	738.8	739.5	735.9	723.7	693.4	639.3
22.5°	769.1	769.1	762.6	748.2	741.0	751.8	743.1	756.8	743.8	725.8	681.1
25°	748.9	756.8	753.2	743.8	746.7	761.1	765.5	778.4	776.3	753.9	710.0
27.5°	770.5	761.1	763.3	752.5	763.3	784.9	787.1	796.5	795.7	777.7	735.9
30°	784.9	793.6	777.0	753.2	764.7	801.5	800.1	812.3	818.1	796.5	760.4
32.5°	831.1	823.8	810.2	778.4	779.9	800.8	807.3	823.1	826.7	813.8	784.2
35°	925.5	914.7	854.8	807.3	800.1	810.2	814.5	845.5	852.0	837.5	809.4
37.5°	1071.1	1046.6	974.5	869.3	836.8	834.7	834.7	875.7	900.3	867.1	846.9
40°	1279.4	1244.8	1166.9	983.9	885.1	893.8	902.4	924.8	921.9	900.3	895.9
42.5°	1544.6	1518.0	1433.6	1176.3	977.4	934.1	926.9	957.2	1002.6	994.0	991.1
45°	1765.9	1767.3	1713.3	1440.1	1136.7	1027.1	1032.2	1055.2	1131.6	1125.1	1124.4
47.5°	1927.4	1907.2	1899.3	1694.5	1368.8	1203.7	1196.5	1212.3	1311.8	1352.9	1371.6
50°	2074.4	2060.7	2042.0	1941.8	1647.7	1425.0	1417.8	1419.2	1571.3	1629.0	1675.1
52.5°	2256.8	2274.1	2212.1	2150.8	2008.8	1712.6	1704.6	1676.5	1865.4	1944.7	1999.4
55°	2481.6	2449.2	2379.3	2411.0	2354.1	2023.2	2008.8	1975.7	2200.5	2233.7	2291.4
57.5°	2531.4	2506.9	2578.9	2691.4	2746.2	2387.9	2382.2	2322.3	2482.4	2452.1	2615.0
60°	2655.3	2661.8	2762.0	2985.5	3080.6	2808.9	2780.8	2675.5	2755.5	2761.3	2935.0
62.5°	2782.9	2767.8	2991.9	3206.7	3353.1	3207.5	3198.1	2989.1	3079.9	3006.4	3236.3
65°	2689.2	2712.3	3033.0	3392.7	3706.2	3597.4	3589.5	3291.1	3340.8	3249.3	3358.8
67.5°	2356.2	2309.4	2758.4	3307.7	3887.9	4006.1	3997.4	3620.5	3487.8	3247.8	3104.4
70°	1727.0	1686.6	2052.8	2800.9	3627.7	4215.1	4249.7	3849.7	3428.0	2945.1	2395.1
72.5°	846.2	846.9	1150.4	1899.3	2870.1	3841.7	3859.0	3529.7	2945.1	2171.0	1356.5
75°	250.1	253.0	426.0	931.2	1855.3	2917.7	2937.2	2679.1	2041.2	1121.5	462.7
77.5°	91.5	91.5	141.3	349.6	925.5	1841.6	1840.1	1644.8	1033.6	379.9	108.1
80°	47.6	49.7	73.5	142.7	400.8	959.4	995.4	805.1	392.8	160.0	31.7
82.5°	19.5	21.6	40.4	73.5	192.4	336.6	368.3	315.7	170.8	111.7	14.4
85°	5.8	6.5	19.5	41.1	75.7	84.3	93.7	106.0	107.4	86.5	6.5
87.5°	0.7	0.7	7.9	13.7	16.6	18.0	20.9	20.9	54.8	60.5	3.6
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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CATALOG NUMBER: IFLD-S-SA2A-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	495.2	491.6	485.8	472.8	469.9	460.6	459.9	451.2	454.1	448.3	446.2
5°	491.6	483.6	467.8	457.7	447.6	441.1	436.8	433.2	432.5	429.6	428.1
7.5°	498.1	487.2	462.7	446.9	429.6	423.8	414.4	413.7	408.7	403.6	403.6
10°	519.7	500.2	473.6	446.9	424.5	405.8	384.2	368.3	362.6	349.6	351.0
12.5°	537.0	519.7	480.8	453.4	419.5	377.0	329.4	292.6	275.3	258.8	265.2
15°	561.5	536.3	494.5	454.8	400.0	326.5	248.7	207.6	191.7	188.1	187.4
17.5°	588.2	561.5	511.8	451.2	360.4	252.3	183.1	159.3	162.2	166.5	165.8
20°	617.7	585.3	524.7	439.0	297.7	183.1	149.9	149.2	153.5	160.0	161.5
22.5°	648.7	620.6	540.6	402.2	222.0	147.0	144.2	144.2	147.0	155.0	153.5
25°	683.3	645.8	548.5	345.3	159.3	135.5	136.9	139.8	141.3	147.8	148.5
27.5°	710.0	673.9	550.7	276.8	129.7	125.4	129.0	132.6	134.8	139.8	142.0
30°	734.5	709.2	539.1	206.1	118.9	116.8	118.2	123.3	127.6	131.9	131.9
32.5°	765.5	729.4	512.5	146.3	112.4	108.8	108.1	110.3	115.3	120.4	120.4
35°	797.2	763.3	469.9	117.5	106.7	101.6	98.7	96.6	98.7	102.4	105.2
37.5°	843.3	814.5	416.6	108.1	102.4	95.1	89.4	84.3	80.7	80.0	82.2
40°	908.9	872.1	348.1	101.6	97.3	88.7	80.0	71.4	63.4	58.4	59.1
42.5°	1008.4	957.2	273.9	98.0	93.7	81.4	69.2	56.9	46.9	41.8	41.8
45°	1150.4	1069.6	201.1	94.4	89.4	72.8	56.9	42.5	32.4	29.6	30.3
47.5°	1364.4	1205.1	144.2	88.7	83.6	63.4	44.7	30.3	23.8	22.3	23.1
50°	1644.1	1365.9	112.4	82.2	76.4	53.3	33.2	22.3	18.7	18.0	18.7
52.5°	1937.5	1528.0	98.7	76.4	65.6	42.5	24.5	18.0	15.9	15.1	15.9
55°	2188.3	1632.6	85.8	67.8	52.6	31.7	19.5	15.9	13.7	11.5	11.5
57.5°	2442.0	1685.2	67.8	56.2	38.9	23.8	16.6	13.7	11.5	9.4	8.6
60°	2648.1	1722.7	48.3	41.8	27.4	18.7	14.4	12.3	9.4	7.2	6.5
62.5°	2783.6	1615.3	35.3	31.7	20.2	15.9	12.3	10.1	7.2	5.0	5.0
65°	2716.6	1466.8	27.4	22.3	15.1	12.3	10.1	7.2	5.0	2.9	2.2
67.5°	2437.7	1195.1	22.3	16.6	11.5	9.4	7.9	5.8	2.9	0.7	0.7
70°	1818.5	875.7	18.0	12.3	9.4	7.2	5.8	3.6	1.4	0.7	0.0
72.5°	994.7	479.3	14.4	10.1	7.2	5.8	4.3	2.9	1.4	0.0	0.0
75°	328.7	127.6	10.8	7.2	4.3	3.6	2.9	2.2	0.7	0.0	0.0
77.5°	79.3	33.2	8.6	6.5	3.6	2.2	1.4	0.7	0.7	0.0	0.0
80°	24.5	13.7	6.5	4.3	2.9	2.2	0.7	0.0	0.0	0.0	0.0
82.5°	10.1	6.5	2.9	2.9	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.0	3.6	2.2	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.4	0.7	0.7	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)