

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: P483382

Luminaire Tested: **IFLD-S-SA3A-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483382  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

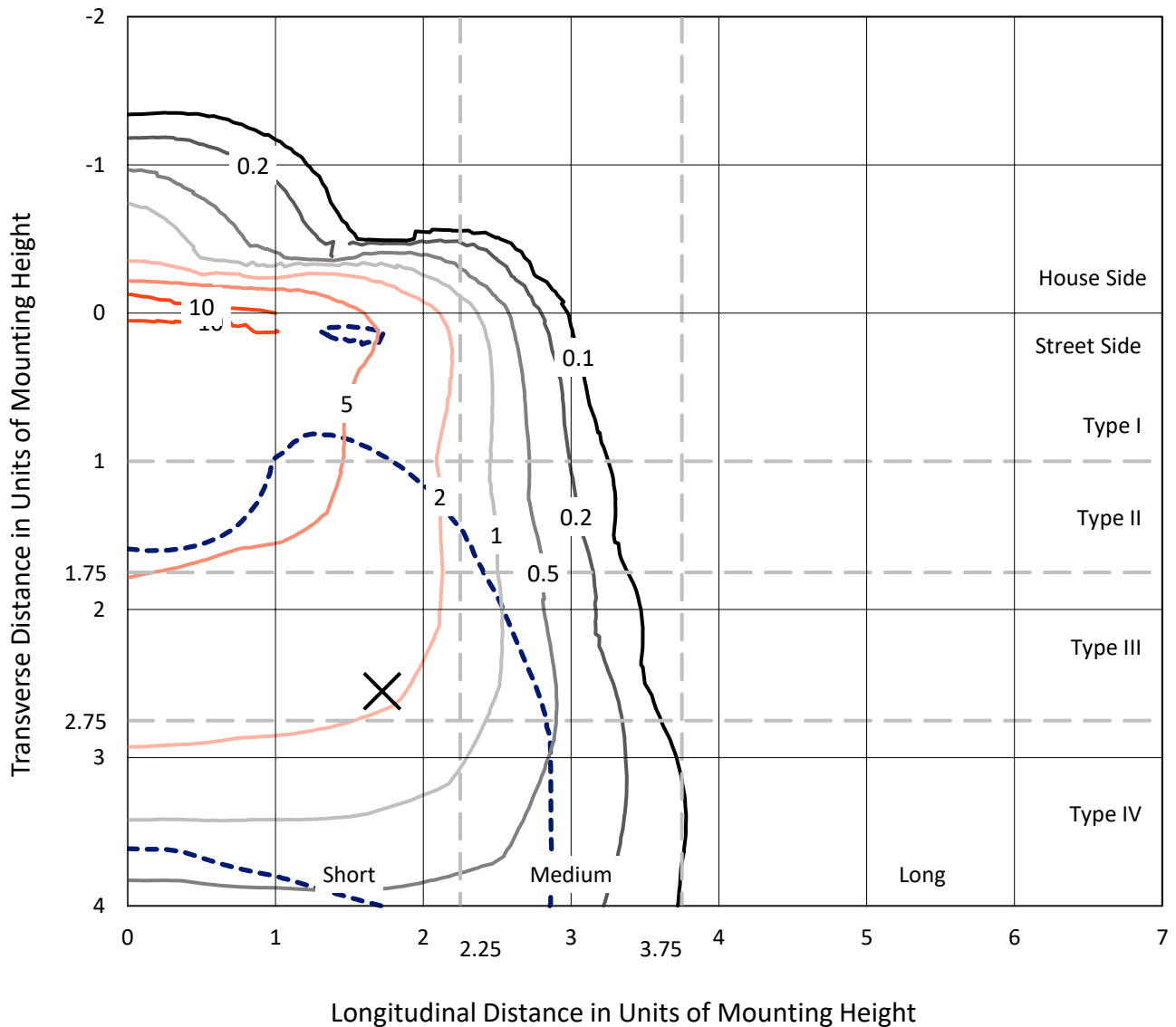
Lumens per Lamp: N/A  
Luminaire Lumens: 7905.2 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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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### Iso-Footcandle Lines of Horizontal Illumination

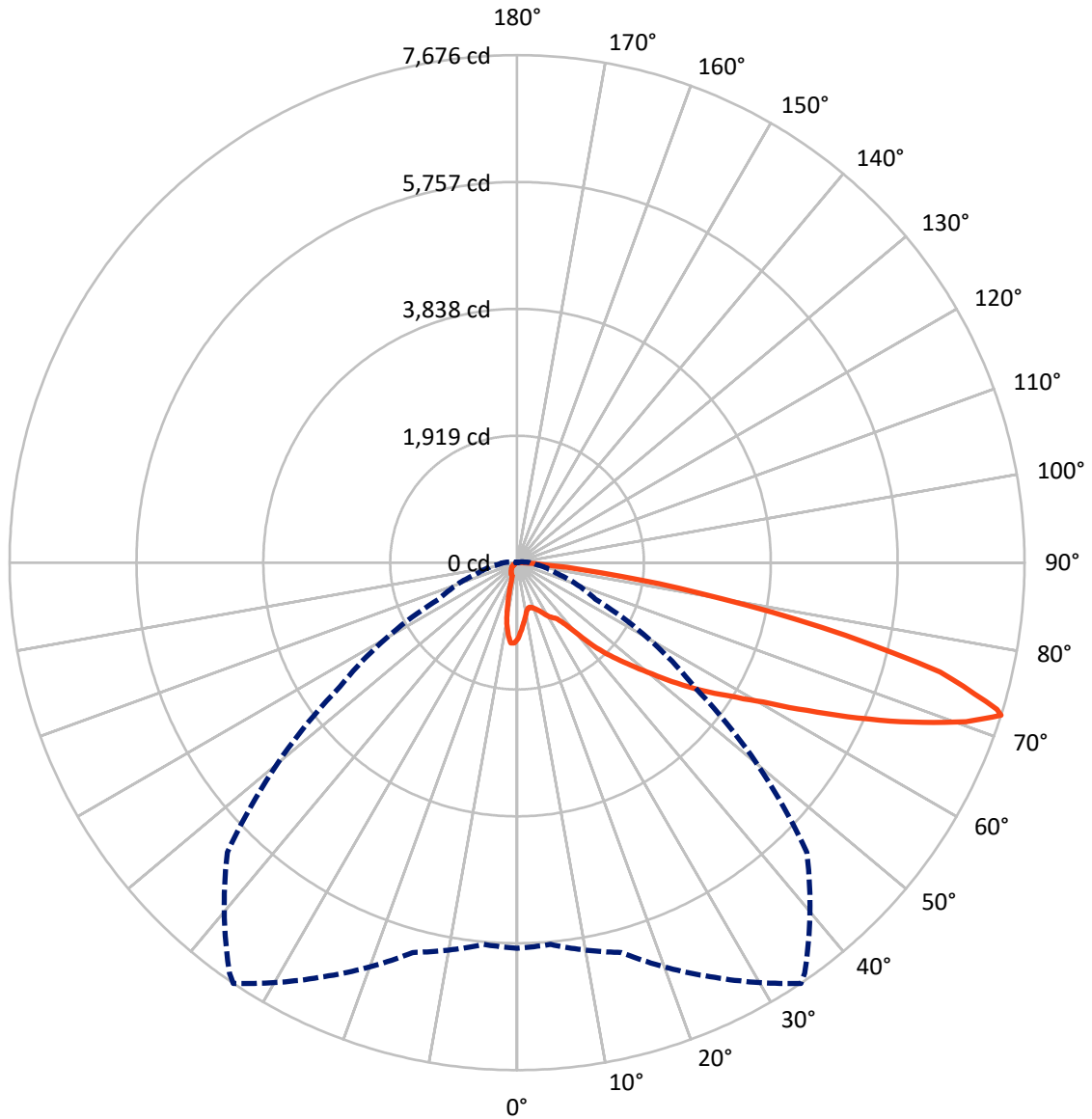
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	809.3	0.0	809.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	7095.9	0.0	7095.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	7905.2	0.0	7905.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	1.3
10°-20°	227.3	2.9
20°-30°	343.1	4.3
30°-40°	556.8	7.0
40°-50°	1046.9	13.2
50°-60°	1711.8	21.7
60°-70°	2275.6	28.8
70°-80°	1523.9	19.3
80°-90°	119.4	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°	7905.2	100.0
0°-180°	7905.2	100.0



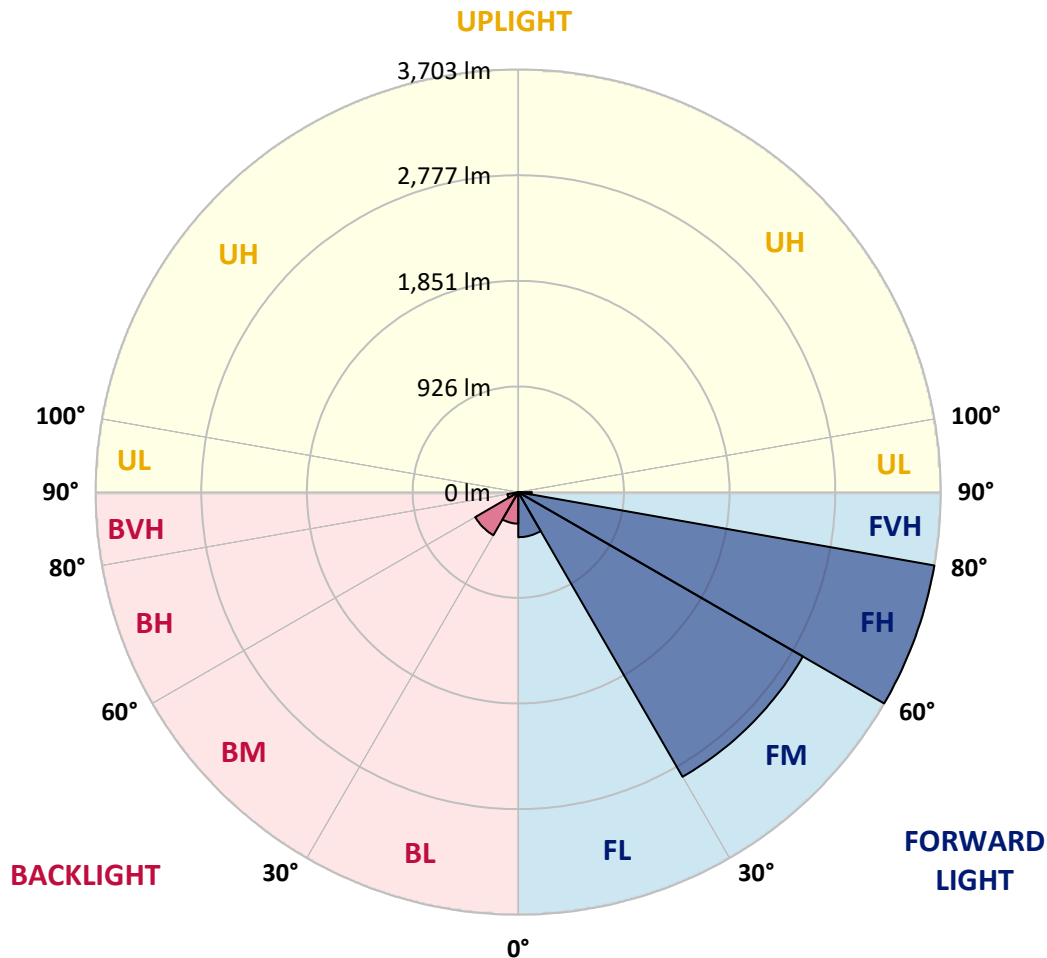
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.6	5.0			
FM	(30°-60°)	2879.8	36.4			
FH	(60°-80°)	3702.7	46.8			G2/5000
FVH	(80°-90°)	118.7	1.5			G2/225
BL	(0°-30°)	276.1	3.5	B1/500		
BM	(30°-60°)	435.6	5.5	B1/1000		
BH	(60°-80°)	96.8	1.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
2.5°	1022.8	1020.5	1027.4	1038.8	1050.3	1045.7	1067.4	1090.2	1106.2	1128.0	1154.2
5°	893.7	899.4	906.3	929.1	944.0	947.4	987.4	1017.1	1066.3	1116.5	1163.4
7.5°	776.0	782.8	796.5	821.7	852.5	860.5	900.5	960.0	1024.0	1090.2	1166.8
10°	690.3	697.1	712.0	728.0	769.1	769.1	824.0	906.3	989.7	1067.4	1168.0
12.5°	672.0	675.4	674.3	686.8	713.1	718.8	772.5	862.8	960.0	1059.4	1186.2
15°	693.7	696.0	684.5	677.7	700.5	706.3	756.5	836.5	940.5	1064.0	1216.0
17.5°	737.1	729.1	706.3	696.0	715.4	718.8	765.7	835.4	938.3	1076.5	1250.2
20°	762.3	771.4	731.4	712.0	739.4	744.0	794.3	853.7	949.7	1098.2	1298.2
22.5°	806.8	811.4	757.7	745.1	771.4	771.4	828.5	890.3	977.1	1133.7	1355.4
25°	869.7	864.0	801.1	788.5	813.7	824.0	881.1	948.5	1019.4	1166.8	1408.0
27.5°	918.8	922.3	870.8	837.7	880.0	886.8	948.5	1011.4	1051.4	1194.2	1472.0
30°	992.0	985.1	930.3	892.5	945.1	946.3	1005.7	1070.8	1113.1	1243.4	1567.9
32.5°	1078.8	1065.1	1002.3	948.5	990.8	1001.1	1061.7	1156.5	1209.1	1336.0	1716.5
35°	1262.8	1229.7	1126.8	1043.4	1046.8	1051.4	1145.1	1281.1	1341.7	1453.7	1915.4
37.5°	1531.4	1517.7	1401.1	1242.2	1181.7	1168.0	1273.1	1445.7	1521.1	1609.1	2173.6
40°	1797.7	1778.2	1669.7	1549.7	1440.0	1412.5	1465.1	1663.9	1732.5	1825.1	2438.8
42.5°	2093.6	2059.4	1931.4	1834.2	1765.7	1735.9	1715.4	1938.2	2015.9	2078.8	2698.2
45°	2393.1	2337.1	2151.9	2077.6	2041.1	2025.1	2022.8	2283.4	2330.2	2342.8	2986.2
47.5°	2655.9	2595.3	2427.3	2343.9	2316.5	2311.9	2439.9	2681.1	2644.5	2611.3	3307.3
50°	2858.2	2819.3	2698.2	2668.5	2647.9	2639.9	2939.3	3090.2	2921.0	2862.8	3589.6
52.5°	3171.3	3084.5	2947.3	2957.6	3029.6	3030.8	3445.6	3478.7	3150.8	3035.3	3855.9
55°	3421.6	3364.5	3252.5	3237.6	3427.3	3447.9	3899.3	3773.6	3278.7	3199.9	3954.2
57.5°	3716.4	3690.2	3609.0	3611.3	3810.2	3853.6	4302.7	4022.7	3385.0	3306.2	3969.0
60°	4142.7	4067.3	4025.0	4044.4	4278.7	4321.0	4693.6	4202.1	3436.5	3375.9	3932.4
62.5°	4613.6	4525.6	4479.9	4579.3	4921.0	4927.8	4990.7	4361.0	3404.5	3394.2	3697.0
65°	5180.4	5093.5	5057.0	5257.0	5662.7	5637.5	5407.8	4428.4	3302.7	3210.2	3078.8
67.5°	5745.0	5692.4	5617.0	5935.8	6440.9	6440.9	5840.9	4403.3	3036.5	2577.1	2013.6
70°	6012.4	6048.9	6168.9	6669.5	7205.5	7150.6	6268.4	4114.1	2260.5	1384.0	792.0
72°	5834.1	5796.4	6106.1	6909.5	7676.3	7586.0	6196.4	3270.7	1306.2	606.8	275.4
72.5°	5527.8	5563.2	5989.5	6876.3	7588.3	7662.6	6020.4	3017.0	1074.3	483.4	208.0
75°	3389.6	3450.2	4470.7	5838.7	6612.4	6528.9	4657.0	1437.7	412.6	205.7	74.3
77.5°	1237.7	1288.0	2169.1	3674.2	4702.7	4650.1	2694.8	510.8	224.0	153.1	37.7
80°	322.3	348.6	737.1	1694.8	2765.6	2769.1	1128.0	204.6	152.0	125.7	22.9
82.5°	64.0	70.9	226.3	659.4	1292.5	1275.4	356.6	109.7	114.3	102.9	16.0
85°	8.0	10.3	48.0	224.0	418.3	374.8	88.0	54.9	84.6	80.0	10.3
87.5°	1.1	1.1	11.4	51.4	88.0	85.7	18.3	17.1	37.7	49.1	5.7
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°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
2.5°	1169.1	1173.7	1189.7	1203.4	1219.4	1224.0	1217.1	1228.5	1212.5	1221.7	1224.0
5°	1171.4	1197.7	1227.4	1246.8	1242.2	1230.8	1221.7	1190.8	1169.1	1161.1	1178.2
7.5°	1187.4	1217.1	1249.1	1249.1	1224.0	1164.5	1107.4	1052.5	1006.8	984.0	1003.4
10°	1208.0	1238.8	1272.0	1228.5	1134.8	1026.3	945.1	842.3	772.5	736.0	739.4
12.5°	1235.4	1278.8	1290.2	1189.7	1034.3	873.1	725.7	582.8	516.6	464.0	465.1
15°	1270.8	1313.1	1278.8	1105.1	906.3	668.5	491.4	355.4	302.8	275.4	275.4
17.5°	1317.7	1349.7	1275.4	1027.4	733.7	457.1	301.7	240.0	228.6	224.0	224.0
20°	1372.5	1396.5	1242.2	906.3	545.1	293.7	221.7	214.9	216.0	213.7	213.7
22.5°	1434.2	1442.2	1204.5	765.7	369.1	217.1	206.9	208.0	209.1	206.9	208.0
25°	1499.4	1477.7	1149.7	601.1	245.7	197.7	200.0	202.3	203.4	204.6	204.6
27.5°	1572.5	1529.1	1073.1	440.0	192.0	186.3	193.1	200.0	201.1	201.1	200.0
30°	1679.9	1607.9	998.8	298.3	169.1	173.7	185.1	193.1	198.9	198.9	197.7
32.5°	1815.9	1690.2	894.8	203.4	156.6	158.9	168.0	184.0	196.6	197.7	194.3
35°	2004.5	1789.7	786.3	162.3	147.4	148.6	154.3	166.9	188.6	195.4	194.3
37.5°	2203.4	1902.8	651.4	146.3	140.6	139.4	142.9	153.1	172.6	189.7	190.9
40°	2414.8	2021.6	509.7	138.3	134.9	132.6	133.7	138.3	153.1	174.9	179.4
42.5°	2613.6	2129.1	382.8	130.3	129.1	126.9	126.9	128.0	136.0	150.9	153.1
45°	2828.5	2217.1	291.4	124.6	121.1	122.3	117.7	115.4	121.1	122.3	121.1
47.5°	3029.6	2305.1	233.1	117.7	114.3	114.3	108.6	104.0	104.0	93.7	92.6
50°	3218.2	2353.1	186.3	108.6	107.4	106.3	98.3	90.3	83.4	70.9	68.6
52.5°	3374.7	2350.8	144.0	97.1	100.6	97.1	84.6	73.1	62.9	51.4	49.1
55°	3421.6	2241.1	108.6	80.0	85.7	81.1	67.4	57.1	45.7	36.6	35.4
57.5°	3381.6	2074.2	82.3	61.7	66.3	61.7	51.4	42.3	32.0	25.1	22.9
60°	3247.9	1878.8	64.0	48.0	50.3	46.9	38.9	32.0	22.9	16.0	13.7
62.5°	2994.2	1634.2	49.1	37.7	36.6	36.6	29.7	24.0	16.0	9.1	8.0
65°	2457.1	1274.2	37.7	26.3	26.3	26.3	22.9	17.1	10.3	4.6	2.3
67.5°	1542.8	741.7	30.9	20.6	19.4	19.4	16.0	11.4	5.7	1.1	0.0
70°	580.6	272.0	24.0	16.0	14.9	14.9	11.4	6.9	3.4	0.0	0.0
72°	200.0	104.0	19.4	11.4	11.4	10.3	8.0	5.7	2.3	0.0	0.0
72.5°	164.6	83.4	18.3	11.4	10.3	10.3	8.0	5.7	2.3	0.0	0.0
75°	59.4	34.3	12.6	8.0	6.9	6.9	5.7	3.4	1.1	0.0	0.0
77.5°	29.7	21.7	10.3	6.9	5.7	3.4	3.4	2.3	1.1	0.0	0.0
80°	18.3	13.7	5.7	4.6	3.4	2.3	1.1	1.1	0.0	0.0	0.0
82.5°	12.6	8.0	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	8.0	3.4	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	2.3	1.1	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)