

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: P483379

Luminaire Tested: **IFLD-S-SA2C-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483379  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-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**

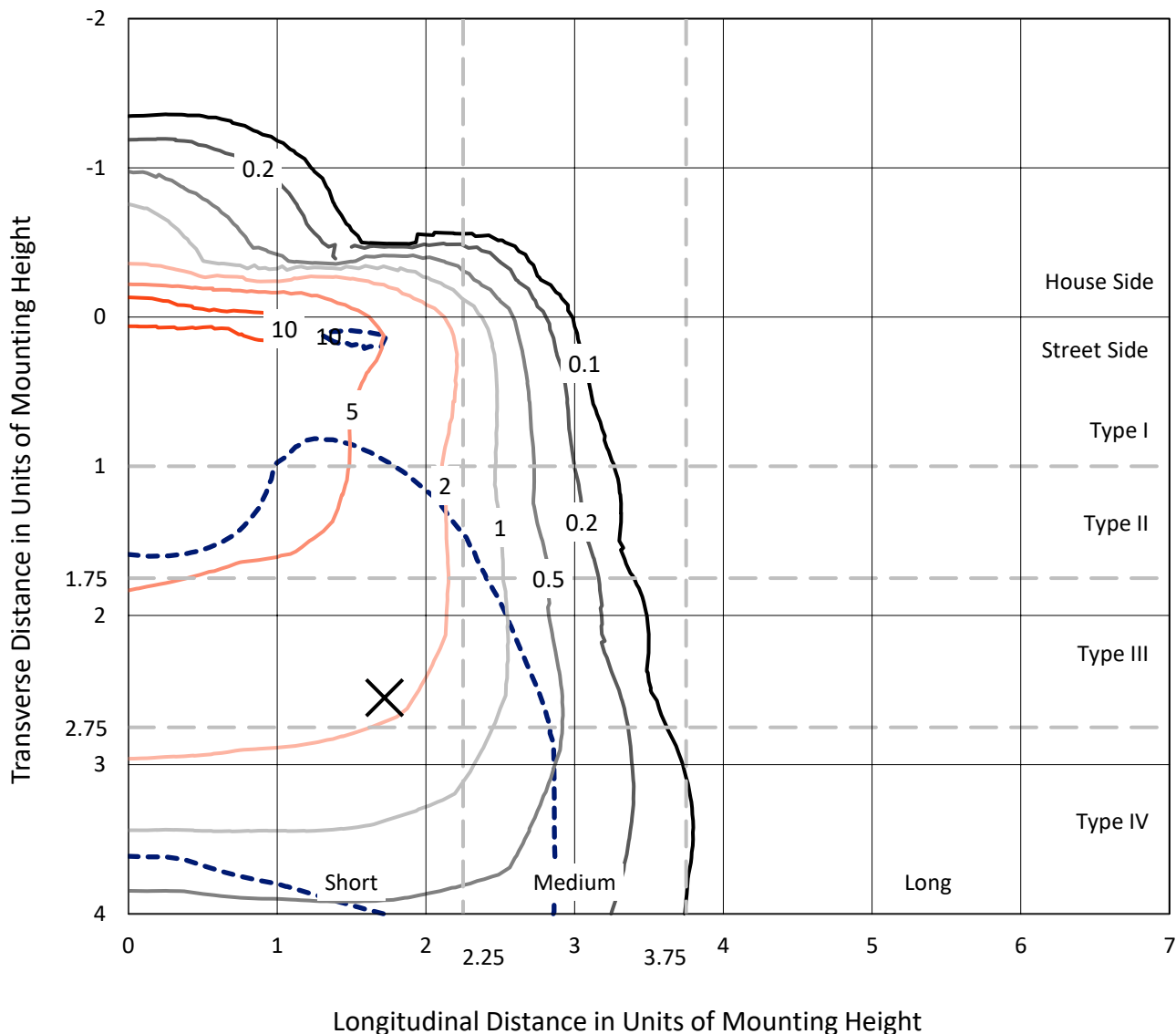
Lumens per Lamp: N/A  
Luminaire Lumens: 8166.5 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

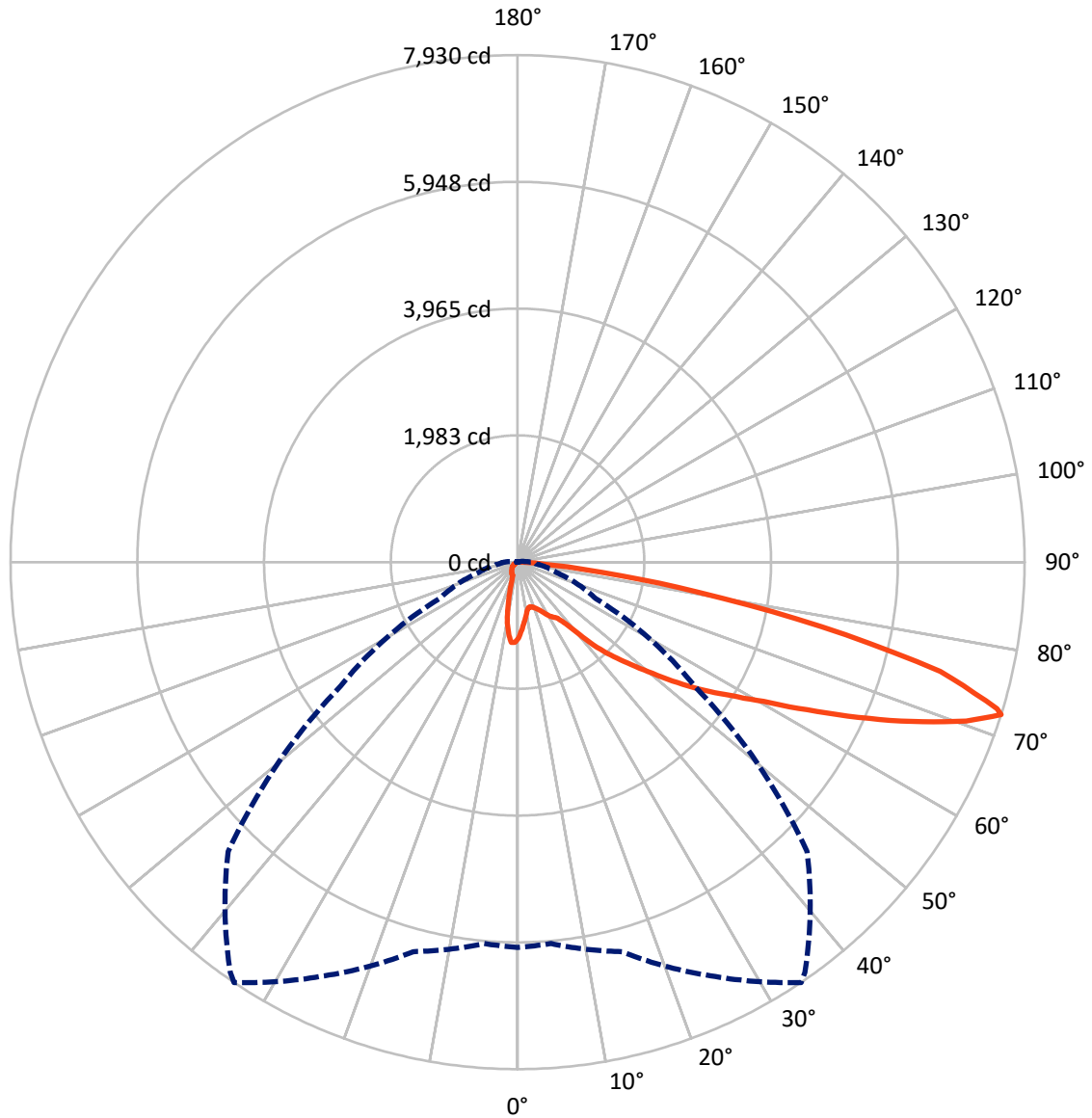
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 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	836.1	0.0	836.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	7330.5	0.0	7330.5
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	8166.5	0.0	8166.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	1.3
10°-20°	234.8	2.9
20°-30°	354.4	4.3
30°-40°	575.2	7.0
40°-50°	1081.6	13.2
50°-60°	1768.4	21.7
60°-70°	2350.8	28.8
70°-80°	1574.3	19.3
80°-90°	123.4	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°	8166.5	100.0
0°-180°	8166.5	100.0

**Coefficient of Utilization**

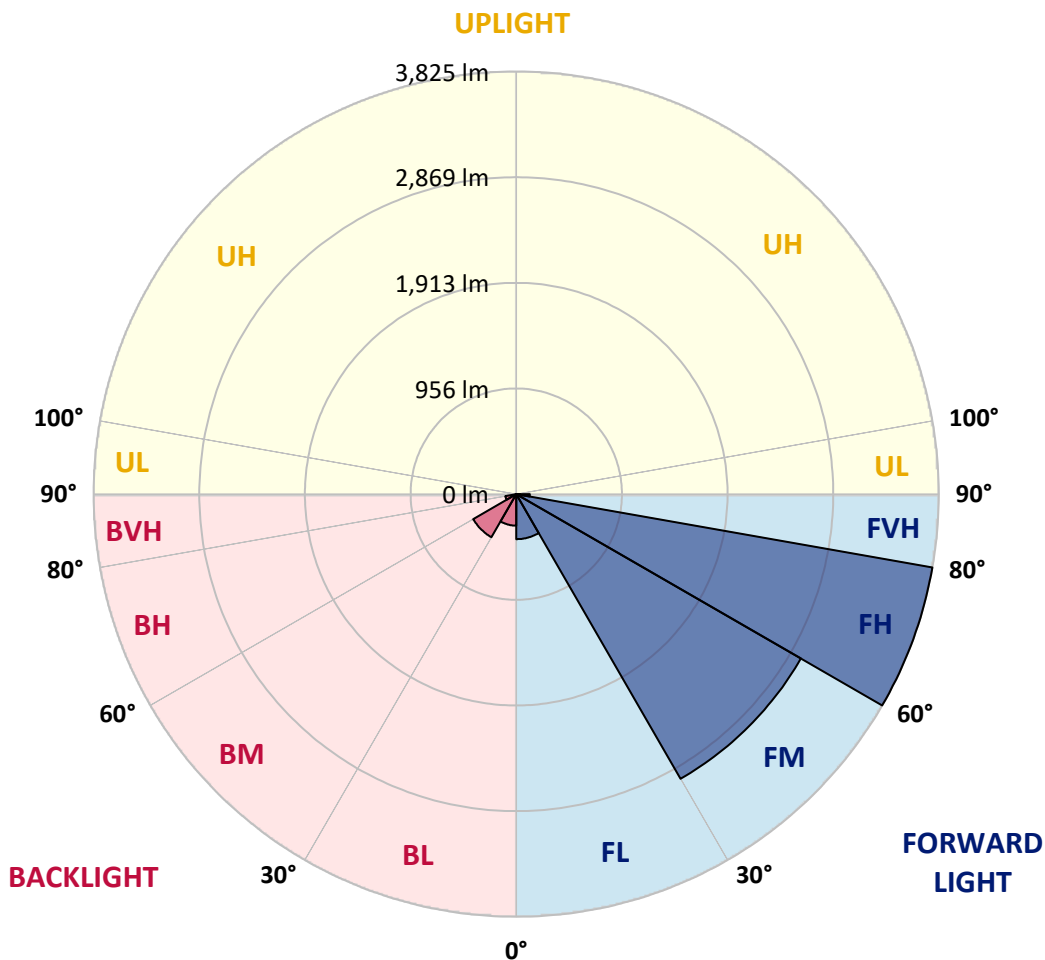


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.7	5.0			
FM (30°-60°)	2975.1	36.4			
FH (60°-80°)	3825.1	46.8			G2/5000
FVH (80°-90°)	122.6	1.5			G2/225
BL (0°-30°)	285.3	3.5	B1/500		
BM (30°-60°)	450.0	5.5	B1/1000		
BH (60°-80°)	100.0	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°	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8
2.5°	1056.6	1054.3	1061.4	1073.2	1085.0	1080.3	1102.7	1126.3	1142.8	1165.3	1192.4
5°	923.2	929.1	936.2	959.8	975.2	978.7	1020.0	1050.7	1101.5	1153.4	1201.9
7.5°	801.6	808.7	822.9	848.9	880.7	889.0	930.3	991.7	1057.8	1126.3	1205.4
10°	713.1	720.2	735.5	752.0	794.5	794.5	851.2	936.2	1022.4	1102.7	1206.6
12.5°	694.2	697.7	696.6	709.5	736.7	742.6	798.1	891.4	991.7	1094.4	1225.5
15°	716.6	719.0	707.2	700.1	723.7	729.6	781.6	864.2	971.6	1099.1	1256.2
17.5°	761.5	753.2	729.6	719.0	739.1	742.6	791.0	863.0	969.3	1112.1	1291.6
20°	787.5	796.9	755.6	735.5	763.8	768.6	820.5	881.9	981.1	1134.6	1341.2
22.5°	833.5	838.2	782.7	769.8	796.9	796.9	855.9	919.7	1009.4	1171.2	1400.2
25°	898.4	892.5	827.6	814.6	840.6	851.2	910.2	979.9	1053.1	1205.4	1454.5
27.5°	949.2	952.7	899.6	865.4	909.1	916.1	979.9	1044.8	1086.2	1233.7	1520.6
30°	1024.8	1017.7	961.0	922.1	976.4	977.5	1038.9	1106.2	1149.9	1284.5	1619.8
32.5°	1114.5	1100.3	1035.4	979.9	1023.6	1034.2	1096.8	1194.8	1249.1	1380.1	1773.3
35°	1304.6	1270.3	1164.1	1077.9	1081.4	1086.2	1183.0	1323.5	1386.0	1501.7	1978.7
37.5°	1582.0	1567.8	1447.4	1283.3	1220.7	1206.6	1315.2	1493.5	1571.4	1662.3	2245.5
40°	1857.1	1837.0	1724.9	1600.9	1487.6	1459.2	1513.5	1719.0	1789.8	1885.4	2519.4
42.5°	2162.9	2127.4	1995.2	1894.9	1824.0	1793.3	1772.1	2002.3	2082.6	2147.5	2787.4
45°	2472.2	2414.3	2223.1	2146.3	2108.6	2092.0	2089.7	2358.8	2407.2	2420.2	3084.9
47.5°	2743.7	2681.1	2507.6	2421.4	2393.1	2388.4	2520.6	2769.7	2731.9	2697.7	3416.7
50°	2952.7	2912.5	2787.4	2756.7	2735.5	2727.2	3036.5	3192.3	3017.6	2957.4	3708.3
52.5°	3276.2	3186.4	3044.8	3055.4	3129.8	3131.0	3559.5	3593.8	3254.9	3135.7	3983.4
55°	3534.7	3475.7	3360.0	3344.6	3540.6	3561.9	4028.2	3898.3	3387.1	3305.7	4084.9
57.5°	3839.3	3812.2	3728.3	3730.7	3936.1	3981.0	4445.0	4155.7	3496.9	3415.5	4100.2
60°	4279.7	4201.8	4158.1	4178.2	4420.2	4463.9	4848.7	4341.1	3550.1	3487.5	4062.5
62.5°	4766.1	4675.2	4628.0	4730.7	5083.7	5090.8	5155.7	4505.2	3517.0	3506.4	3819.2
65°	5351.7	5261.9	5224.2	5430.8	5849.9	5823.9	5586.6	4574.8	3411.9	3316.3	3180.5
67.5°	5934.9	5880.6	5802.7	6132.0	6653.9	6653.9	6034.1	4548.9	3136.9	2662.3	2080.2
70°	6211.1	6248.9	6372.9	6890.0	7443.7	7387.0	6475.6	4250.2	2335.2	1429.7	818.2
72°	6027.0	5988.0	6308.0	7137.9	7930.1	7836.8	6401.2	3378.9	1349.4	626.9	284.5
72.5°	5710.6	5747.2	6187.5	7103.7	7839.2	7915.9	6219.4	3116.8	1109.8	499.4	214.9
75°	3501.7	3564.2	4618.5	6031.7	6831.0	6744.8	4811.0	1485.2	426.2	212.5	76.7
77.5°	1278.6	1330.5	2240.8	3795.6	4858.2	4803.9	2783.9	527.7	231.4	158.2	39.0
80°	332.9	360.1	761.5	1750.8	2857.1	2860.6	1165.3	211.3	157.0	129.9	23.6
82.5°	66.1	73.2	233.8	681.2	1335.3	1317.6	368.3	113.3	118.1	106.3	16.5
85°	8.3	10.6	49.6	231.4	432.1	387.2	90.9	56.7	87.4	82.6	10.6
87.5°	1.2	1.2	11.8	53.1	90.9	88.5	18.9	17.7	39.0	50.8	5.9
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°	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8
2.5°	1207.8	1212.5	1229.0	1243.2	1259.7	1264.4	1257.3	1269.1	1252.6	1262.1	1264.4
5°	1210.1	1237.3	1268.0	1288.0	1283.3	1271.5	1262.1	1230.2	1207.8	1199.5	1217.2
7.5°	1226.6	1257.3	1290.4	1290.4	1264.4	1203.0	1144.0	1087.3	1040.1	1016.5	1036.6
10°	1247.9	1279.8	1314.0	1269.1	1172.3	1060.2	976.4	870.1	798.1	760.3	763.8
12.5°	1276.2	1321.1	1332.9	1229.0	1068.4	902.0	749.7	602.1	533.6	479.3	480.5
15°	1312.8	1356.5	1321.1	1141.6	936.2	690.7	507.7	367.2	312.9	284.5	284.5
17.5°	1361.2	1394.3	1317.6	1061.4	757.9	472.2	311.7	247.9	236.1	231.4	231.4
20°	1417.9	1442.7	1283.3	936.2	563.1	303.4	229.0	222.0	223.1	220.8	220.8
22.5°	1481.7	1489.9	1244.4	791.0	381.3	224.3	213.7	214.9	216.1	213.7	214.9
25°	1549.0	1526.5	1187.7	621.0	253.8	204.2	206.6	209.0	210.1	211.3	211.3
27.5°	1624.5	1579.6	1108.6	454.5	198.3	192.4	199.5	206.6	207.8	207.8	206.6
30°	1735.5	1661.1	1031.8	308.1	174.7	179.5	191.3	199.5	205.4	205.4	204.2
32.5°	1876.0	1746.1	924.4	210.1	161.7	164.1	173.5	190.1	203.1	204.2	200.7
35°	2070.8	1848.8	812.3	167.6	152.3	153.5	159.4	172.4	194.8	201.9	200.7
37.5°	2276.2	1965.7	672.9	151.1	145.2	144.0	147.6	158.2	178.3	196.0	197.2
40°	2494.6	2088.5	526.5	142.9	139.3	136.9	138.1	142.9	158.2	180.6	185.4
42.5°	2700.0	2199.5	395.5	134.6	133.4	131.0	131.0	132.2	140.5	155.8	158.2
45°	2922.0	2290.4	301.1	128.7	125.1	126.3	121.6	119.2	125.1	126.3	125.1
47.5°	3129.8	2381.3	240.8	121.6	118.1	118.1	112.2	107.4	107.4	96.8	95.6
50°	3324.6	2430.9	192.4	112.2	111.0	109.8	101.5	93.3	86.2	73.2	70.8
52.5°	3486.3	2428.5	148.8	100.4	103.9	100.4	87.4	75.6	64.9	53.1	50.8
55°	3534.7	2315.2	112.2	82.6	88.5	83.8	69.7	59.0	47.2	37.8	36.6
57.5°	3493.4	2142.8	85.0	63.8	68.5	63.8	53.1	43.7	33.1	26.0	23.6
60°	3355.3	1940.9	66.1	49.6	51.9	48.4	40.1	33.1	23.6	16.5	14.2
62.5°	3093.2	1688.3	50.8	39.0	37.8	37.8	30.7	24.8	16.5	9.4	8.3
65°	2538.3	1316.4	39.0	27.2	27.2	27.2	23.6	17.7	10.6	4.7	2.4
67.5°	1593.8	766.2	31.9	21.3	20.1	20.1	16.5	11.8	5.9	1.2	0.0
70°	599.7	281.0	24.8	16.5	15.3	15.3	11.8	7.1	3.5	0.0	0.0
72°	206.6	107.4	20.1	11.8	11.8	10.6	8.3	5.9	2.4	0.0	0.0
72.5°	170.0	86.2	18.9	11.8	10.6	10.6	8.3	5.9	2.4	0.0	0.0
75°	61.4	35.4	13.0	8.3	7.1	7.1	5.9	3.5	1.2	0.0	0.0
77.5°	30.7	22.4	10.6	7.1	5.9	3.5	3.5	2.4	1.2	0.0	0.0
80°	18.9	14.2	5.9	4.7	3.5	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	13.0	8.3	3.5	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.3	3.5	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	2.4	1.2	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)