

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: P483340

Luminaire Tested: **IFLD-S-SA2C-827-U-T4FT-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483340  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

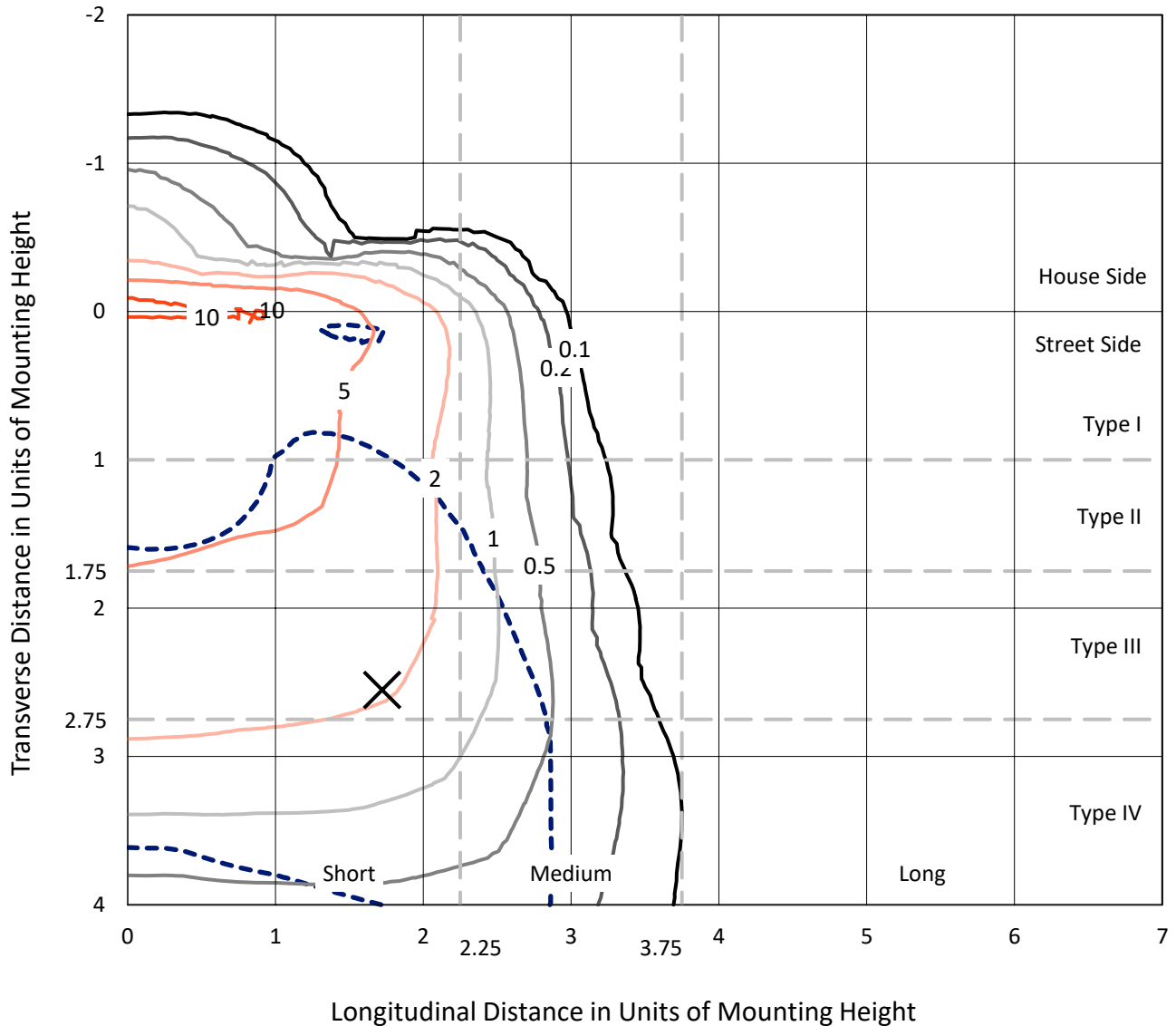
Lumens per Lamp: N/A  
Luminaire Lumens: 7555 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

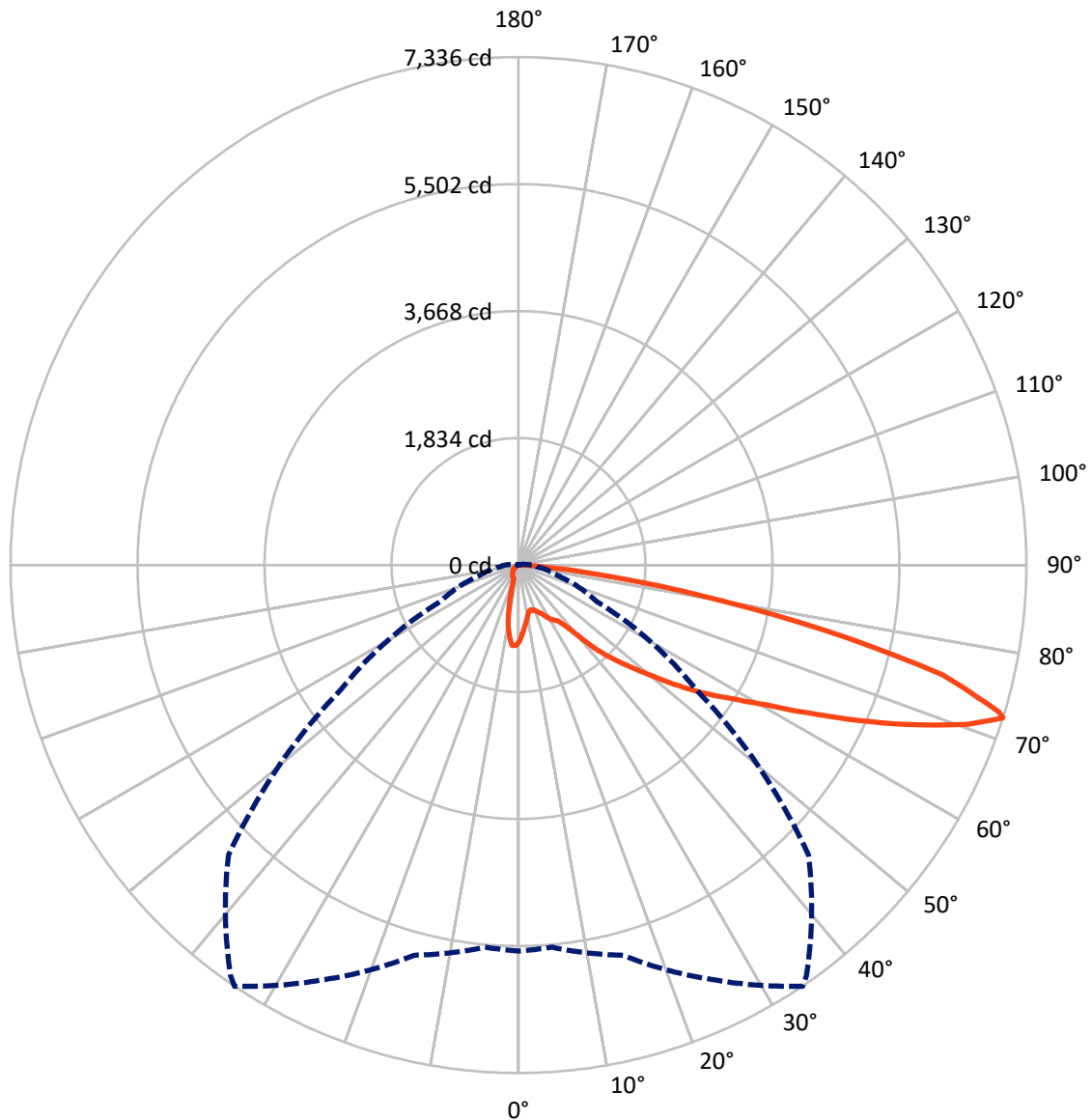
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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	773.5	0.0	773.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	6781.6	0.0	6781.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	7555.0	0.0	7555.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.9	1.3
10°-20°	217.2	2.9
20°-30°	327.9	4.3
30°-40°	532.1	7.0
40°-50°	1000.6	13.2
50°-60°	1636.0	21.7
60°-70°	2174.8	28.8
70°-80°	1456.4	19.3
80°-90°	114.1	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°	7555.0	100.0
0°-180°	7555.0	100.0

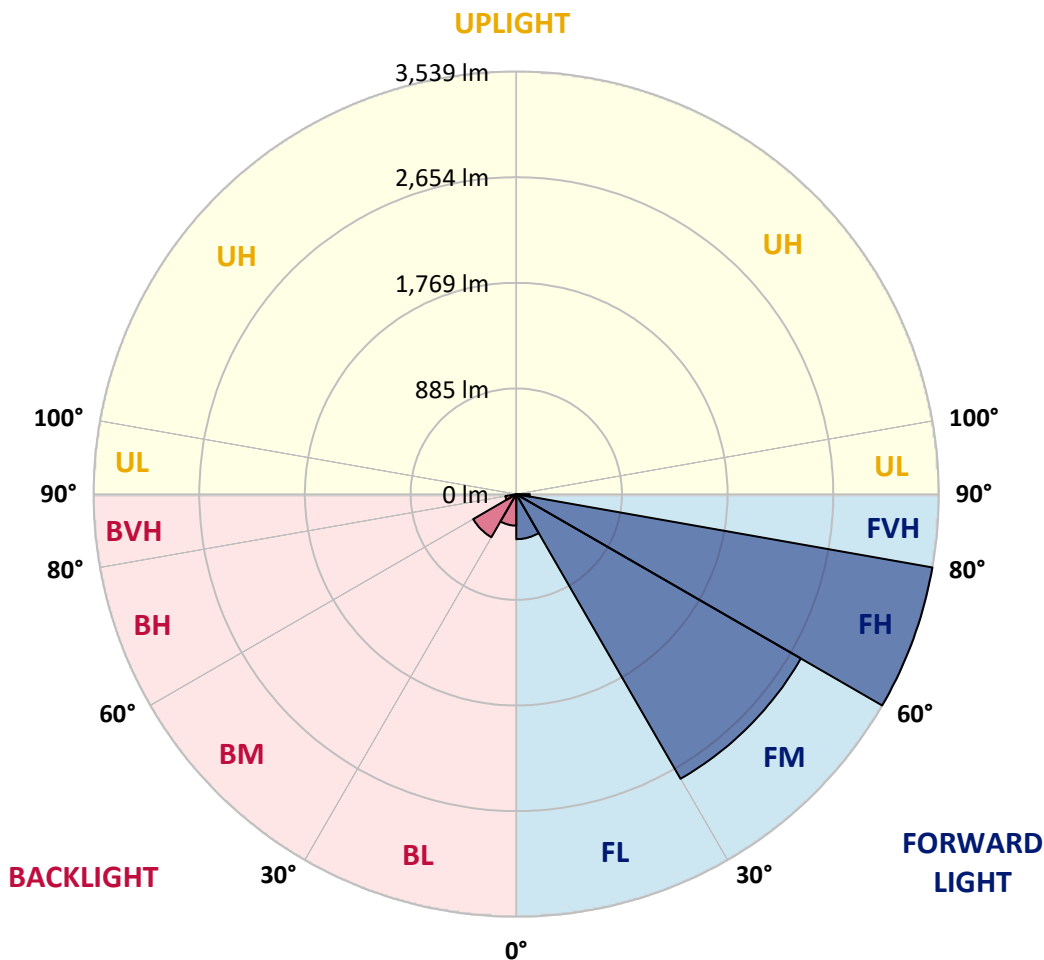


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.2	5.0			
FM (30°-60°)	2752.3	36.4			
FH (60°-80°)	3538.7	46.8			G2/5000
FVH (80°-90°)	113.4	1.5			G2/225
BL (0°-30°)	263.9	3.5	B1/500		
BM (30°-60°)	416.3	5.5	B1/1000		
BH (60°-80°)	92.5	1.2	B0/110		G0/110
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°	34°	35°	45°	55°	65°	75°	85°
0°	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3
2.5°	977.5	975.3	981.9	992.8	1003.7	999.4	1020.1	1042.0	1057.2	1078.0	1103.1
5°	854.1	859.6	866.1	888.0	902.2	905.4	943.7	972.1	1019.0	1067.1	1111.9
7.5°	741.6	748.2	761.3	785.3	814.8	822.4	860.7	917.4	978.6	1042.0	1115.1
10°	659.7	666.2	680.4	695.7	735.0	735.0	787.5	866.1	945.8	1020.1	1116.2
12.5°	642.2	645.5	644.4	656.4	681.5	687.0	738.3	824.6	917.4	1012.5	1133.7
15°	663.0	665.1	654.2	647.7	669.5	675.0	723.0	799.5	898.9	1016.8	1162.1
17.5°	704.5	696.8	675.0	665.1	683.7	687.0	731.8	798.4	896.7	1028.9	1194.9
20°	728.5	737.2	699.0	680.4	706.7	711.0	759.1	815.9	907.6	1049.6	1240.7
22.5°	771.1	775.5	724.1	712.1	737.2	737.2	791.8	850.8	933.8	1083.5	1295.3
25°	831.2	825.7	765.6	753.6	777.6	787.5	842.1	906.5	974.2	1115.1	1345.6
27.5°	878.1	881.4	832.3	800.6	841.0	847.5	906.5	966.6	1004.8	1141.3	1406.8
30°	948.0	941.5	889.0	853.0	903.2	904.3	961.1	1023.4	1063.8	1188.3	1498.5
32.5°	1031.0	1017.9	957.9	906.5	946.9	956.8	1014.7	1105.3	1155.5	1276.8	1640.5
35°	1206.9	1175.2	1076.9	997.2	1000.5	1004.8	1094.4	1224.4	1282.2	1389.3	1830.5
37.5°	1463.5	1450.4	1339.0	1187.2	1129.3	1116.2	1216.7	1381.6	1453.7	1537.8	2077.4
40°	1718.0	1699.5	1595.7	1481.0	1376.2	1350.0	1400.2	1590.2	1655.8	1744.2	2330.8
42.5°	2000.9	1968.1	1845.8	1753.0	1687.4	1659.0	1639.4	1852.4	1926.6	1986.7	2578.7
45°	2287.1	2233.5	2056.6	1985.6	1950.7	1935.4	1933.2	2182.2	2227.0	2239.0	2853.9
47.5°	2538.3	2480.4	2319.8	2240.1	2213.9	2209.5	2331.8	2562.3	2527.3	2495.7	3160.8
50°	2731.6	2694.5	2578.7	2550.3	2530.6	2523.0	2809.1	2953.3	2791.7	2736.0	3430.6
52.5°	3030.9	2947.8	2816.8	2826.6	2895.4	2896.5	3293.0	3324.7	3011.2	2900.9	3685.1
55°	3270.0	3215.4	3108.4	3094.2	3275.5	3295.2	3726.6	3606.4	3133.5	3058.2	3779.0
57.5°	3551.8	3526.7	3449.2	3451.3	3641.4	3682.9	4112.1	3844.5	3235.1	3159.7	3793.2
60°	3959.2	3887.1	3846.7	3865.3	4089.2	4129.6	4485.7	4016.0	3284.2	3226.4	3758.3
62.5°	4409.2	4325.1	4281.4	4376.4	4703.0	4709.6	4769.6	4167.8	3253.7	3243.8	3533.3
65°	4950.9	4867.9	4833.0	5024.1	5411.8	5387.8	5168.3	4232.3	3156.5	3068.0	2942.4
67.5°	5490.5	5440.2	5368.2	5672.9	6155.6	6155.6	5582.2	4208.2	2902.0	2462.9	1924.5
70°	5746.1	5781.0	5895.7	6374.1	6886.3	6833.9	5990.7	3931.9	2160.4	1322.7	756.9
72°	5575.7	5539.6	5835.6	6603.4	7336.3	7250.0	5921.9	3125.9	1248.4	580.0	263.2
72.5°	5283.0	5316.8	5724.2	6571.8	7252.2	7323.2	5753.7	2883.4	1026.7	462.0	198.8
75°	3239.5	3297.3	4272.7	5580.0	6319.5	6239.7	4450.7	1374.0	394.3	196.6	71.0
77.5°	1182.9	1230.9	2073.0	3511.4	4494.4	4444.2	2575.4	488.2	214.1	146.4	36.0
80°	308.0	333.1	704.5	1619.7	2643.1	2646.4	1078.0	195.5	145.3	120.1	21.8
82.5°	61.2	67.7	216.3	630.2	1235.3	1218.9	340.8	104.9	109.2	98.3	15.3
85°	7.6	9.8	45.9	214.1	399.7	358.2	84.1	52.4	80.8	76.5	9.8
87.5°	1.1	1.1	10.9	49.1	84.1	81.9	17.5	16.4	36.0	47.0	5.5
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°	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3
2.5°	1117.3	1121.7	1137.0	1150.1	1165.4	1169.7	1163.2	1174.1	1158.8	1167.6	1169.7
5°	1119.5	1144.6	1173.0	1191.6	1187.2	1176.3	1167.6	1138.1	1117.3	1109.7	1126.1
7.5°	1134.8	1163.2	1193.8	1193.8	1169.7	1113.0	1058.3	1005.9	962.2	940.4	959.0
10°	1154.5	1183.9	1215.6	1174.1	1084.6	980.8	903.2	805.0	738.3	703.4	706.7
12.5°	1180.7	1222.2	1233.1	1137.0	988.4	834.4	693.5	557.0	493.7	443.4	444.5
15°	1214.5	1254.9	1222.2	1056.2	866.1	638.9	469.6	339.7	289.4	263.2	263.2
17.5°	1259.3	1289.9	1218.9	981.9	701.2	436.9	288.3	229.4	218.4	214.1	214.1
20°	1311.7	1334.7	1187.2	866.1	521.0	280.7	211.9	205.3	206.4	204.2	204.2
22.5°	1370.7	1378.4	1151.2	731.8	352.8	207.5	197.7	198.8	199.9	197.7	198.8
25°	1433.0	1412.2	1098.8	574.5	234.8	189.0	191.1	193.3	194.4	195.5	195.5
27.5°	1502.9	1461.4	1025.6	420.5	183.5	178.0	184.6	191.1	192.2	192.2	191.1
30°	1605.5	1536.7	954.6	285.1	161.6	166.0	176.9	184.6	190.0	190.0	189.0
32.5°	1735.5	1615.4	855.2	194.4	149.6	151.8	160.6	175.8	187.9	189.0	185.7
35°	1915.7	1710.4	751.4	155.1	140.9	142.0	147.4	159.5	180.2	186.8	185.7
37.5°	2105.8	1818.5	622.6	139.8	134.3	133.2	136.5	146.4	164.9	181.3	182.4
40°	2307.8	1932.1	487.1	132.2	128.9	126.7	127.8	132.2	146.4	167.1	171.5
42.5°	2497.9	2034.8	365.9	124.5	123.4	121.2	121.2	122.3	130.0	144.2	146.4
45°	2703.2	2118.9	278.5	119.0	115.8	116.9	112.5	110.3	115.8	116.9	115.8
47.5°	2895.4	2203.0	222.8	112.5	109.2	109.2	103.8	99.4	99.4	89.6	88.5
50°	3075.6	2248.8	178.0	103.8	102.7	101.6	93.9	86.3	79.7	67.7	65.5
52.5°	3225.3	2246.7	137.6	92.8	96.1	92.8	80.8	69.9	60.1	49.1	47.0
55°	3270.0	2141.8	103.8	76.5	81.9	77.5	64.4	54.6	43.7	35.0	33.9
57.5°	3231.8	1982.3	78.6	59.0	63.3	59.0	49.1	40.4	30.6	24.0	21.8
60°	3104.0	1795.6	61.2	45.9	48.1	44.8	37.1	30.6	21.8	15.3	13.1
62.5°	2861.6	1561.8	47.0	36.0	35.0	35.0	28.4	22.9	15.3	8.7	7.6
65°	2348.2	1217.8	36.0	25.1	25.1	25.1	21.8	16.4	9.8	4.4	2.2
67.5°	1474.5	708.8	29.5	19.7	18.6	18.6	15.3	10.9	5.5	1.1	0.0
70°	554.8	259.9	22.9	15.3	14.2	14.2	10.9	6.6	3.3	0.0	0.0
72°	191.1	99.4	18.6	10.9	10.9	9.8	7.6	5.5	2.2	0.0	0.0
72.5°	157.3	79.7	17.5	10.9	9.8	9.8	7.6	5.5	2.2	0.0	0.0
75°	56.8	32.8	12.0	7.6	6.6	6.6	5.5	3.3	1.1	0.0	0.0
77.5°	28.4	20.8	9.8	6.6	5.5	3.3	3.3	2.2	1.1	0.0	0.0
80°	17.5	13.1	5.5	4.4	3.3	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	12.0	7.6	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.6	3.3	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.2	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)