

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: P483183

Luminaire Tested: **IFLD-S-SA2B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483183  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

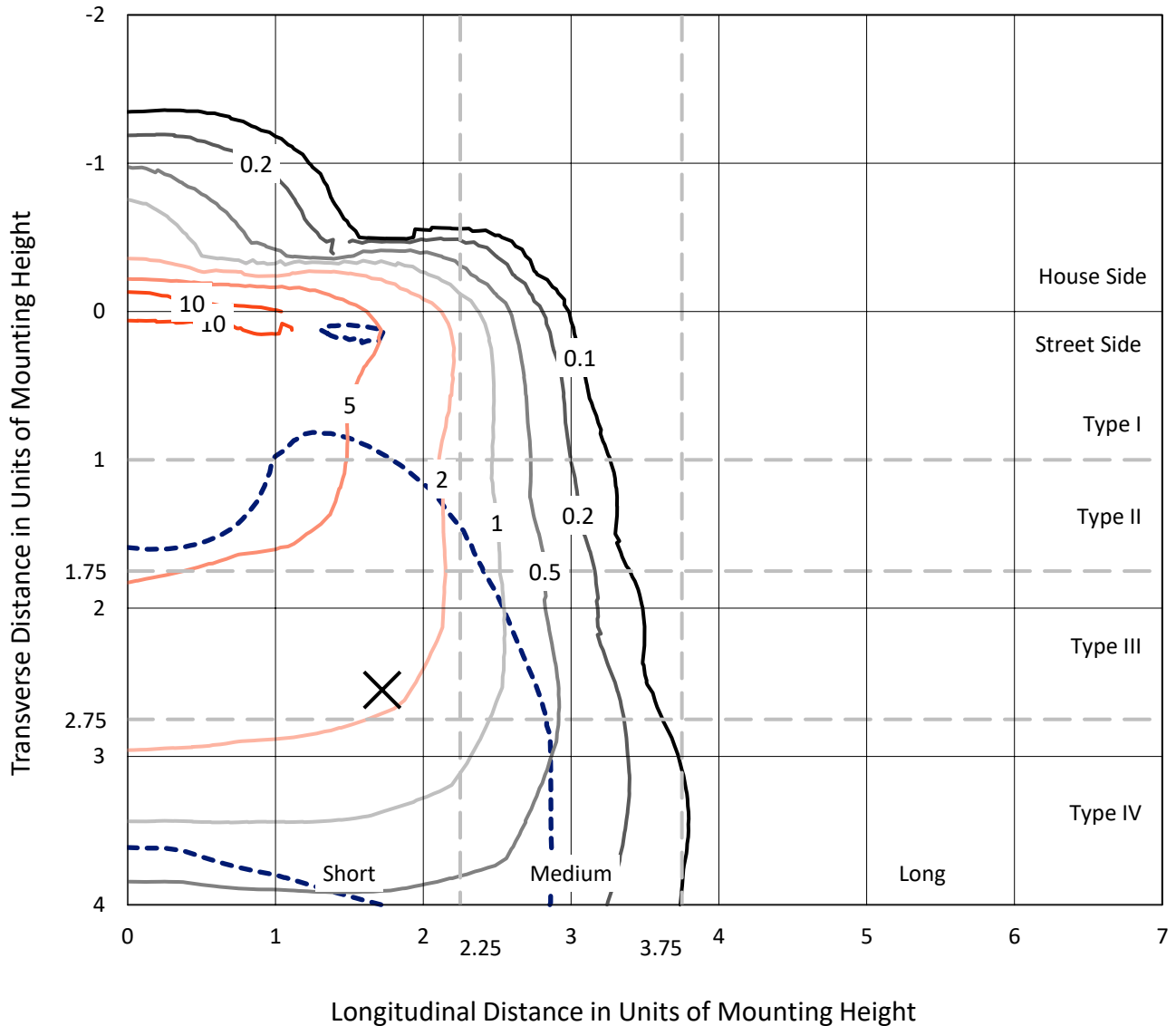
Lumens per Lamp: N/A  
Luminaire Lumens: 8142.9 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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

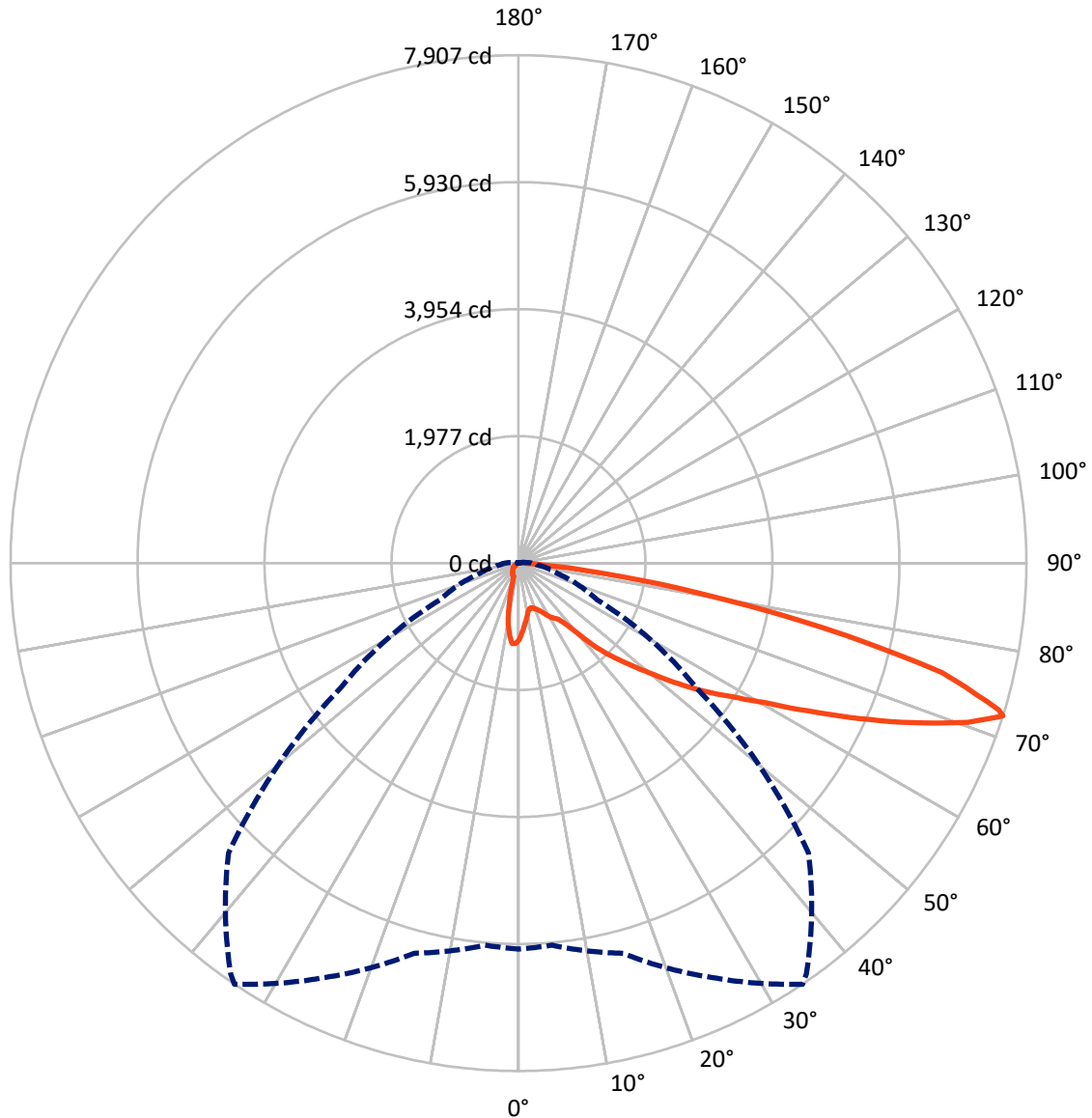
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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	833.7	0.0	833.7
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	7309.3	0.0	7309.3
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	8142.9	0.0	8142.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	1.3
10°-20°	234.1	2.9
20°-30°	353.4	4.3
30°-40°	573.5	7.0
40°-50°	1078.4	13.2
50°-60°	1763.3	21.7
60°-70°	2344.0	28.8
70°-80°	1569.8	19.3
80°-90°	123.0	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°	8142.9	100.0
0°-180°	8142.9	100.0



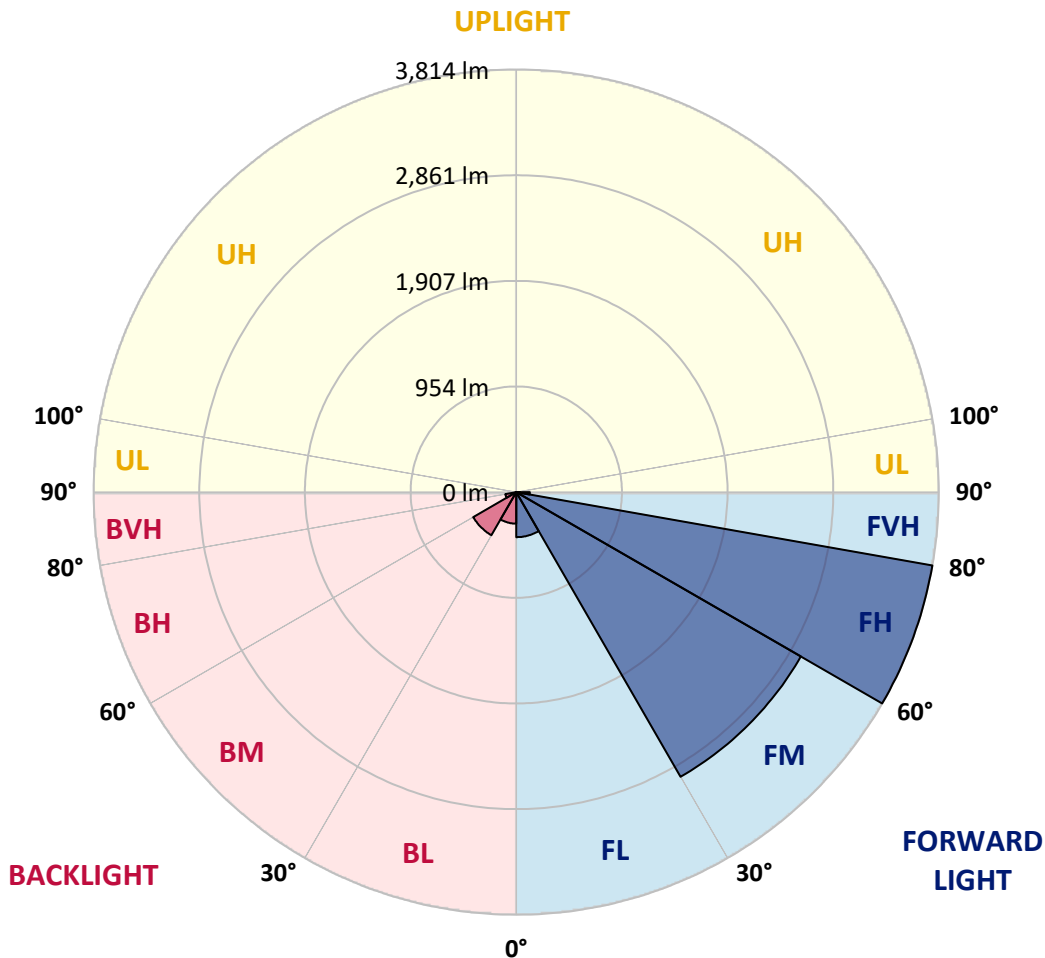
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.5	5.0			
FM (30°-60°)	2966.5	36.4			
FH (60°-80°)	3814.1	46.8			G2/5000
FVH (80°-90°)	122.2	1.5			G2/225
BL (0°-30°)	284.4	3.5	B1/500		
BM (30°-60°)	448.7	5.5	B1/1000		
BH (60°-80°)	99.7	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°	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3
2.5°	1053.6	1051.2	1058.3	1070.1	1081.8	1077.1	1099.5	1123.0	1139.5	1161.9	1189.0
5°	920.6	926.5	933.5	957.1	972.4	975.9	1017.1	1047.7	1098.3	1150.1	1198.4
7.5°	799.3	806.4	820.5	846.4	878.2	886.4	927.6	988.8	1054.8	1123.0	1201.9
10°	711.0	718.1	733.4	749.9	792.3	792.3	848.8	933.5	1019.4	1099.5	1203.1
12.5°	692.2	695.7	694.5	707.5	734.6	740.5	795.8	888.8	988.8	1091.3	1221.9
15°	714.6	716.9	705.1	698.1	721.6	727.5	779.3	861.7	968.8	1096.0	1252.5
17.5°	759.3	751.0	727.5	716.9	736.9	740.5	788.7	860.5	966.5	1108.9	1287.8
20°	785.2	794.6	753.4	733.4	761.6	766.4	818.1	879.4	978.2	1131.3	1337.3
22.5°	831.1	835.8	780.5	767.5	794.6	794.6	853.5	917.0	1006.5	1167.8	1396.2
25°	895.8	890.0	825.2	812.3	838.2	848.8	907.6	977.1	1050.1	1201.9	1450.3
27.5°	946.5	950.0	897.0	862.9	906.4	913.5	977.1	1041.8	1083.0	1230.2	1516.2
30°	1021.8	1014.7	958.2	919.4	973.5	974.7	1035.9	1103.0	1146.6	1280.8	1615.1
32.5°	1111.3	1097.1	1032.4	977.1	1020.6	1031.2	1093.6	1191.3	1245.5	1376.1	1768.1
35°	1300.8	1266.7	1160.7	1074.8	1078.3	1083.0	1179.5	1319.6	1382.0	1497.4	1973.0
37.5°	1577.4	1563.3	1443.2	1279.6	1217.2	1203.1	1311.4	1489.1	1566.8	1657.5	2239.0
40°	1851.7	1831.7	1719.9	1596.3	1483.3	1455.0	1509.2	1714.0	1784.6	1880.0	2512.1
42.5°	2156.6	2121.3	1989.5	1889.4	1818.8	1788.2	1767.0	1996.5	2076.6	2141.3	2779.4
45°	2465.0	2407.4	2216.7	2140.1	2102.5	2086.0	2083.6	2352.0	2400.3	2413.2	3076.0
47.5°	2735.8	2673.4	2500.4	2414.4	2386.2	2381.5	2513.3	2761.7	2724.0	2689.9	3406.8
50°	2944.2	2904.1	2779.4	2748.7	2727.6	2719.3	3027.7	3183.1	3008.9	2948.9	3697.6
52.5°	3266.7	3177.2	3036.0	3046.6	3120.7	3121.9	3549.2	3583.4	3245.5	3126.6	3971.8
55°	3524.5	3465.7	3350.3	3335.0	3530.4	3551.6	4016.6	3887.1	3377.4	3296.1	4073.1
57.5°	3828.2	3801.2	3717.6	3719.9	3924.8	3969.5	4432.1	4143.7	3486.8	3405.6	4088.4
60°	4267.3	4189.6	4146.1	4166.1	4407.4	4451.0	4834.7	4328.5	3539.8	3477.4	4050.7
62.5°	4752.3	4661.7	4614.6	4717.0	5069.0	5076.1	5140.8	4492.2	3506.9	3496.3	3808.2
65°	5336.2	5246.7	5209.1	5415.1	5833.0	5807.1	5570.5	4561.6	3402.1	3306.7	3171.4
67.5°	5917.7	5863.6	5785.9	6114.3	6634.7	6634.7	6016.6	4535.7	3127.8	2654.6	2074.2
70°	6193.2	6230.9	6354.5	6870.1	7422.2	7365.7	6456.9	4237.9	2328.5	1425.6	815.8
72°	6009.6	5970.7	6289.7	7117.3	7907.2	7814.2	6382.7	3369.1	1345.5	625.1	283.7
72.5°	5694.1	5730.6	6169.7	7083.2	7816.6	7893.1	6201.4	3107.8	1106.6	498.0	214.2
75°	3491.6	3553.9	4605.2	6014.3	6811.2	6725.3	4797.1	1480.9	425.0	211.9	76.5
77.5°	1274.9	1326.7	2234.3	3784.7	4844.1	4790.0	2775.8	526.2	230.7	157.7	38.8
80°	332.0	359.0	759.3	1745.8	2848.8	2852.3	1161.9	210.7	156.6	129.5	23.5
82.5°	65.9	73.0	233.1	679.2	1331.4	1313.7	367.3	113.0	117.7	105.9	16.5
85°	8.2	10.6	49.4	230.7	430.9	386.1	90.6	56.5	87.1	82.4	10.6
87.5°	1.2	1.2	11.8	53.0	90.6	88.3	18.8	17.7	38.8	50.6	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°	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3
2.5°	1204.3	1209.0	1225.5	1239.6	1256.1	1260.8	1253.7	1265.5	1249.0	1258.4	1260.8
5°	1206.6	1233.7	1264.3	1284.3	1279.6	1267.8	1258.4	1226.6	1204.3	1196.0	1213.7
7.5°	1223.1	1253.7	1286.7	1286.7	1260.8	1199.6	1140.7	1084.2	1037.1	1013.6	1033.6
10°	1244.3	1276.1	1310.2	1265.5	1169.0	1057.1	973.5	867.6	795.8	758.1	761.6
12.5°	1272.5	1317.3	1329.1	1225.5	1065.4	899.4	747.5	600.4	532.1	477.9	479.1
15°	1309.0	1352.6	1317.3	1138.3	933.5	688.7	506.2	366.1	312.0	283.7	283.7
17.5°	1357.3	1390.3	1313.7	1058.3	755.8	470.9	310.8	247.2	235.4	230.7	230.7
20°	1413.8	1438.5	1279.6	933.5	561.5	302.5	228.4	221.3	222.5	220.1	220.1
22.5°	1477.4	1485.6	1240.8	788.7	380.2	223.7	213.1	214.2	215.4	213.1	214.2
25°	1544.5	1522.1	1184.3	619.2	253.1	203.7	206.0	208.4	209.5	210.7	210.7
27.5°	1619.8	1575.1	1105.4	453.2	197.8	191.9	198.9	206.0	207.2	207.2	206.0
30°	1730.5	1656.3	1028.9	307.2	174.2	178.9	190.7	198.9	204.8	204.8	203.7
32.5°	1870.6	1741.1	921.7	209.5	161.3	163.6	173.0	189.5	202.5	203.7	200.1
35°	2064.8	1843.5	809.9	167.2	151.9	153.0	158.9	171.9	194.2	201.3	200.1
37.5°	2269.6	1960.0	671.0	150.7	144.8	143.6	147.1	157.7	177.8	195.4	196.6
40°	2487.4	2082.5	525.0	142.4	138.9	136.6	137.7	142.4	157.7	180.1	184.8
42.5°	2692.2	2193.1	394.4	134.2	133.0	130.7	130.7	131.8	140.1	155.4	157.7
45°	2913.6	2283.8	300.2	128.3	124.8	126.0	121.3	118.9	124.8	126.0	124.8
47.5°	3120.7	2374.4	240.1	121.3	117.7	117.7	111.8	107.1	107.1	96.5	95.4
50°	3315.0	2423.8	191.9	111.8	110.7	109.5	101.2	93.0	85.9	73.0	70.6
52.5°	3476.2	2421.5	148.3	100.1	103.6	100.1	87.1	75.3	64.7	53.0	50.6
55°	3524.5	2308.5	111.8	82.4	88.3	83.6	69.5	58.9	47.1	37.7	36.5
57.5°	3483.3	2136.6	84.8	63.6	68.3	63.6	53.0	43.6	33.0	25.9	23.5
60°	3345.6	1935.3	65.9	49.4	51.8	48.3	40.0	33.0	23.5	16.5	14.1
62.5°	3084.2	1683.4	50.6	38.8	37.7	37.7	30.6	24.7	16.5	9.4	8.2
65°	2531.0	1312.6	38.8	27.1	27.1	27.1	23.5	17.7	10.6	4.7	2.4
67.5°	1589.2	764.0	31.8	21.2	20.0	20.0	16.5	11.8	5.9	1.2	0.0
70°	598.0	280.2	24.7	16.5	15.3	15.3	11.8	7.1	3.5	0.0	0.0
72°	206.0	107.1	20.0	11.8	11.8	10.6	8.2	5.9	2.4	0.0	0.0
72.5°	169.5	85.9	18.8	11.8	10.6	10.6	8.2	5.9	2.4	0.0	0.0
75°	61.2	35.3	12.9	8.2	7.1	7.1	5.9	3.5	1.2	0.0	0.0
77.5°	30.6	22.4	10.6	7.1	5.9	3.5	3.5	2.4	1.2	0.0	0.0
80°	18.8	14.1	5.9	4.7	3.5	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	12.9	8.2	3.5	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.2	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)