

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: P483109

Luminaire Tested: **IFLD-S-SA3A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483109
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

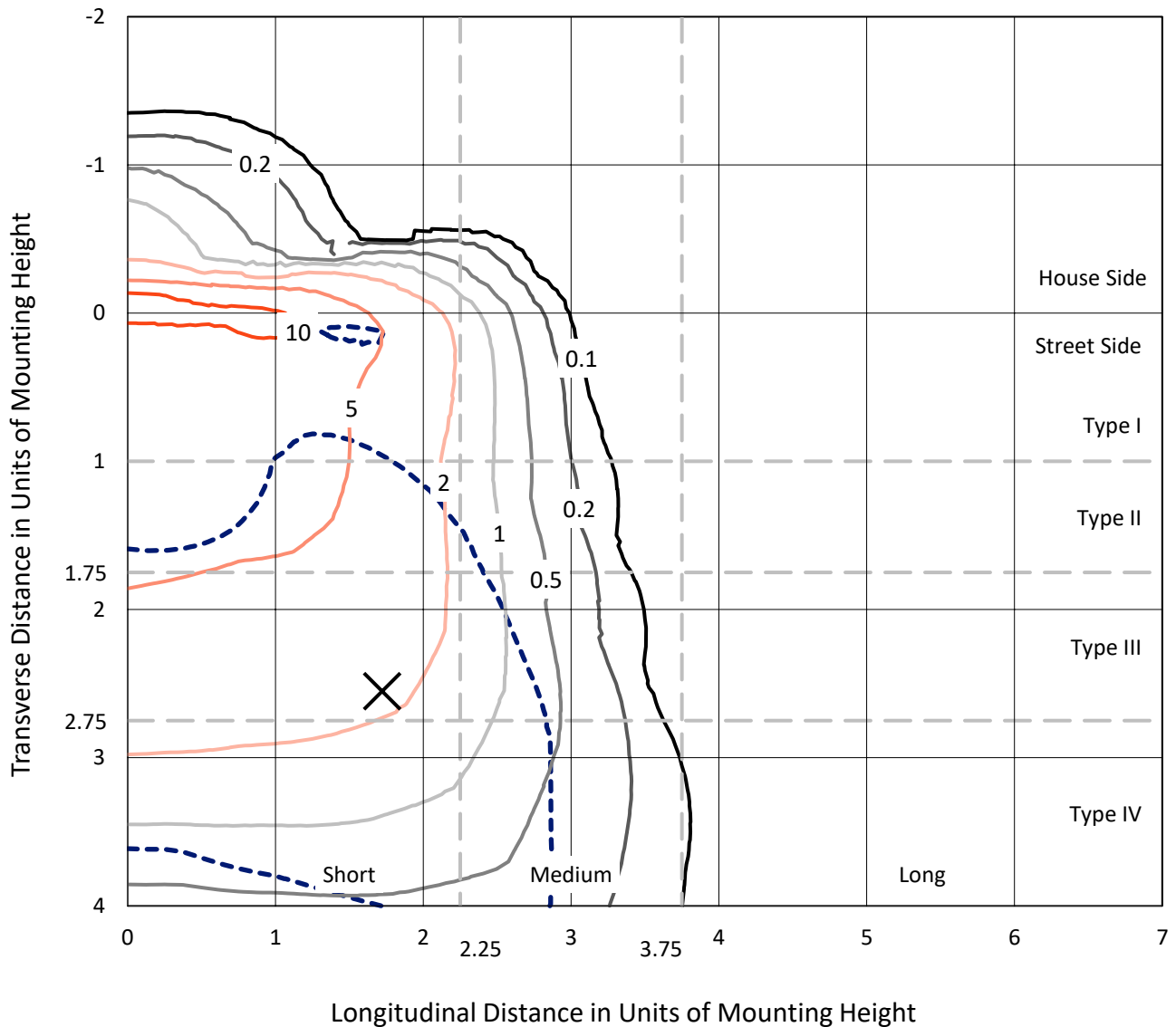
Lumens per Lamp: N/A
Luminaire Lumens: 8320 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

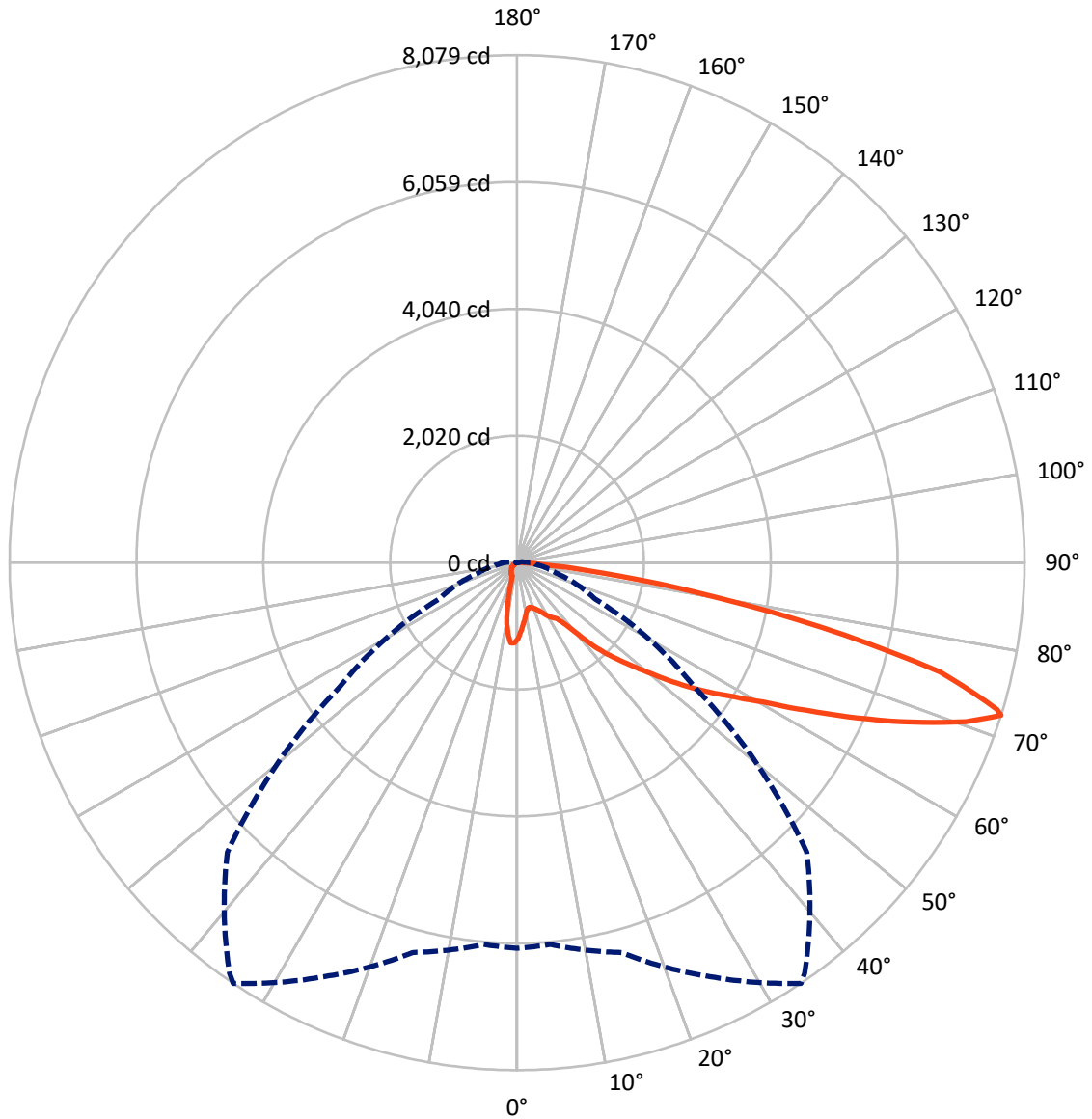
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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
House Side	Lumens	851.8	0.0	851.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7468.3	0.0	7468.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	8320.0	0.0	8320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.3
10°-20°	239.2	2.9
20°-30°	361.1	4.3
30°-40°	586.0	7.0
40°-50°	1101.9	13.2
50°-60°	1801.6	21.7
60°-70°	2395.0	28.8
70°-80°	1603.9	19.3
80°-90°	125.7	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°	8320.0	100.0
0°-180°	8320.0	100.0

Coefficient of Utilization



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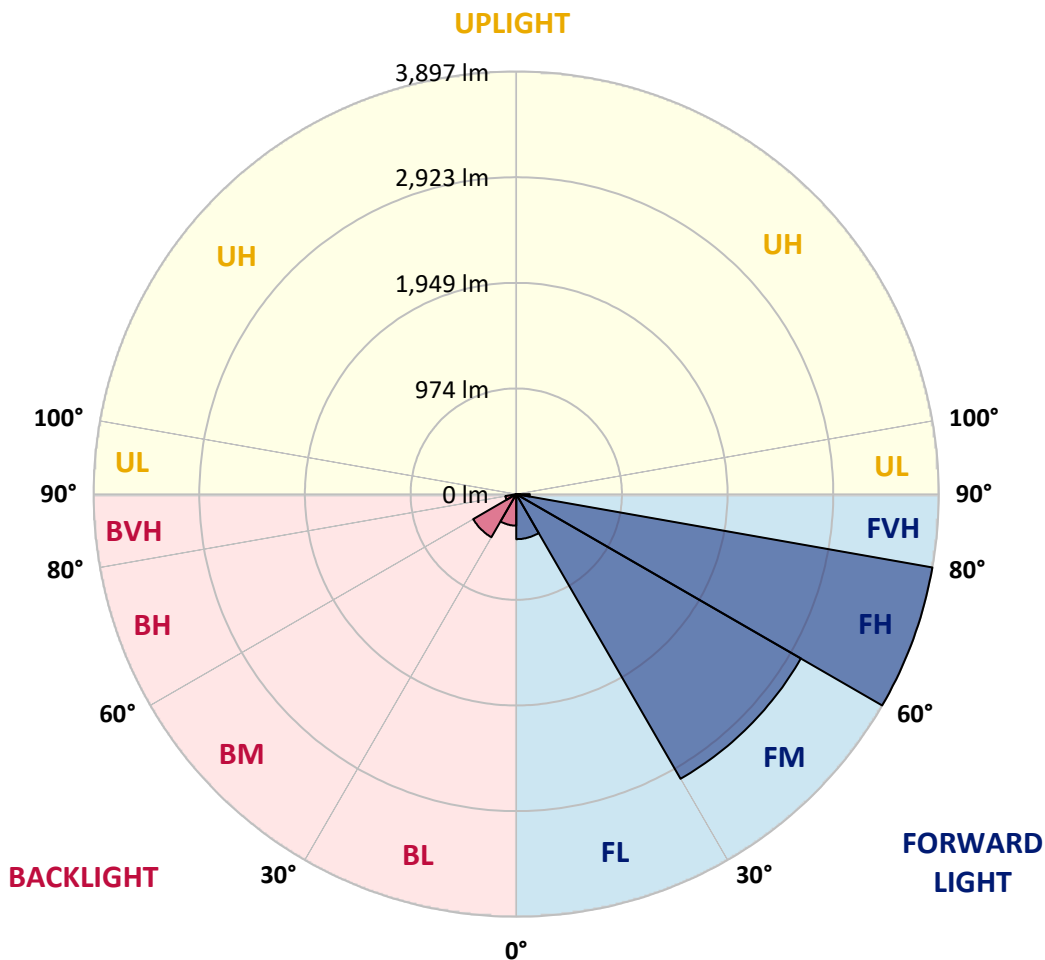
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.4	5.0			
FM (30°-60°)	3031.0	36.4			
FH (60°-80°)	3897.0	46.8			G2/5000
FVH (80°-90°)	124.9	1.5			G2/225
BL (0°-30°)	290.6	3.5	B1/500		
BM (30°-60°)	458.5	5.5	B1/1000		
BH (60°-80°)	101.8	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°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1076.5	1074.1	1081.3	1093.3	1105.4	1100.6	1123.4	1147.5	1164.3	1187.2	1214.8
5°	940.6	946.6	953.8	977.9	993.5	997.1	1039.2	1070.5	1122.2	1175.1	1224.4
7.5°	816.7	823.9	838.3	864.8	897.3	905.7	947.8	1010.3	1077.7	1147.5	1228.1
10°	726.5	733.7	749.3	766.2	809.5	809.5	867.2	953.8	1041.6	1123.4	1229.3
12.5°	707.2	710.9	709.6	722.9	750.5	756.6	813.1	908.1	1010.3	1115.0	1248.5
15°	730.1	732.5	720.5	713.3	737.3	743.3	796.2	880.4	989.9	1119.8	1279.8
17.5°	775.8	767.4	743.3	732.5	752.9	756.6	805.9	879.2	987.5	1133.0	1315.9
20°	802.3	811.9	769.8	749.3	778.2	783.0	835.9	898.5	999.5	1155.9	1366.4
22.5°	849.2	854.0	797.5	784.2	811.9	811.9	872.0	937.0	1028.4	1193.2	1426.5
25°	915.3	909.3	843.2	829.9	856.4	867.2	927.4	998.3	1072.9	1228.1	1481.8
27.5°	967.0	970.7	916.5	881.6	926.2	933.4	998.3	1064.5	1106.6	1256.9	1549.2
30°	1044.0	1036.8	979.1	939.4	994.7	995.9	1058.5	1127.0	1171.5	1308.6	1650.2
32.5°	1135.4	1121.0	1054.8	998.3	1042.8	1053.6	1117.4	1217.2	1272.6	1406.1	1806.6
35°	1329.1	1294.2	1186.0	1098.2	1101.8	1106.6	1205.2	1348.3	1412.1	1530.0	2015.9
37.5°	1611.7	1597.3	1474.6	1307.4	1243.7	1229.3	1339.9	1521.5	1600.9	1693.5	2287.7
40°	1892.0	1871.5	1757.3	1631.0	1515.5	1486.7	1542.0	1751.3	1823.4	1920.9	2566.8
42.5°	2203.5	2167.4	2032.7	1930.5	1858.3	1827.0	1805.4	2039.9	2121.7	2187.9	2839.8
45°	2518.6	2459.7	2264.9	2186.7	2148.2	2131.3	2128.9	2403.2	2452.5	2465.7	3142.9
47.5°	2795.3	2731.5	2554.7	2466.9	2438.1	2433.3	2568.0	2821.8	2783.3	2748.4	3480.9
50°	3008.2	2967.3	2839.8	2808.5	2786.9	2778.5	3093.6	3252.4	3074.3	3013.0	3778.0
52.5°	3337.8	3246.3	3102.0	3112.8	3188.6	3189.8	3626.4	3661.3	3316.1	3194.6	4058.2
55°	3601.2	3541.0	3423.2	3407.5	3607.2	3628.8	4103.9	3971.6	3450.8	3367.8	4161.7
57.5°	3911.5	3883.8	3798.4	3800.8	4010.1	4055.8	4528.5	4233.8	3562.7	3479.7	4177.3
60°	4360.1	4280.7	4236.2	4256.7	4503.3	4547.8	4939.9	4422.7	3616.8	3553.1	4138.8
62.5°	4855.7	4763.1	4715.0	4819.6	5179.2	5186.4	5252.6	4589.9	3583.1	3572.3	3891.0
65°	5452.3	5360.9	5322.4	5532.8	5959.8	5933.4	5691.6	4660.8	3476.1	3378.6	3240.3
67.5°	6046.4	5991.1	5911.7	6247.3	6778.9	6778.9	6147.5	4634.4	3195.8	2712.3	2119.3
70°	6327.9	6366.4	6492.7	7019.5	7583.6	7525.9	6597.3	4330.1	2379.1	1456.6	833.5
72°	6140.3	6100.6	6426.5	7272.1	8079.2	7984.1	6521.5	3442.4	1374.8	638.7	289.9
72.5°	5817.9	5855.2	6303.8	7237.2	7986.5	8064.7	6336.3	3175.4	1130.6	508.8	218.9
75°	3567.5	3631.2	4705.3	6145.1	6959.4	6871.6	4901.4	1513.1	434.2	216.5	78.2
77.5°	1302.6	1355.5	2282.9	3867.0	4949.5	4894.2	2836.2	537.6	235.7	161.2	39.7
80°	339.2	366.9	775.8	1783.7	2910.8	2914.4	1187.2	215.3	160.0	132.3	24.1
82.5°	67.4	74.6	238.2	694.0	1360.4	1342.3	375.3	115.5	120.3	108.3	16.8
85°	8.4	10.8	50.5	235.7	440.2	394.5	92.6	57.7	89.0	84.2	10.8
87.5°	1.2	1.2	12.0	54.1	92.6	90.2	19.2	18.0	39.7	51.7	6.0
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°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1230.5	1235.3	1252.1	1266.5	1283.4	1288.2	1281.0	1293.0	1276.2	1285.8	1288.2
5°	1232.9	1260.5	1291.8	1312.2	1307.4	1295.4	1285.8	1253.3	1230.5	1222.0	1240.1
7.5°	1249.7	1281.0	1314.7	1314.7	1288.2	1225.6	1165.5	1107.8	1059.7	1035.6	1056.1
10°	1271.4	1303.8	1338.7	1293.0	1194.4	1080.1	994.7	886.5	813.1	774.6	778.2
12.5°	1300.2	1345.9	1358.0	1252.1	1088.5	918.9	763.8	613.4	543.7	488.3	489.5
15°	1337.5	1382.0	1345.9	1163.1	953.8	703.6	517.2	374.1	318.7	289.9	289.9
17.5°	1386.8	1420.5	1342.3	1081.3	772.2	481.1	317.5	252.6	240.6	235.7	235.7
20°	1444.6	1469.8	1307.4	953.8	573.7	309.1	233.3	226.1	227.3	224.9	224.9
22.5°	1509.5	1517.9	1267.7	805.9	388.5	228.5	217.7	218.9	220.1	217.7	218.9
25°	1578.1	1555.2	1210.0	632.7	258.6	208.1	210.5	212.9	214.1	215.3	215.3
27.5°	1655.0	1609.3	1129.4	463.1	202.1	196.1	203.3	210.5	211.7	211.7	210.5
30°	1768.1	1692.3	1051.2	313.9	178.0	182.8	194.9	203.3	209.3	209.3	208.1
32.5°	1911.2	1778.9	941.8	214.1	164.8	167.2	176.8	193.6	206.9	208.1	204.5
35°	2109.7	1883.6	827.5	170.8	155.2	156.4	162.4	175.6	198.5	205.7	204.5
37.5°	2319.0	2002.7	685.6	154.0	147.9	146.7	150.3	161.2	181.6	199.7	200.9
40°	2541.5	2127.7	536.4	145.5	141.9	139.5	140.7	145.5	161.2	184.0	188.8
42.5°	2750.8	2240.8	402.9	137.1	135.9	133.5	133.5	134.7	143.1	158.8	161.2
45°	2976.9	2333.4	306.7	131.1	127.5	128.7	123.9	121.5	127.5	128.7	127.5
47.5°	3188.6	2426.0	245.4	123.9	120.3	120.3	114.3	109.5	109.5	98.6	97.4
50°	3387.1	2476.6	196.1	114.3	113.1	111.9	103.4	95.0	87.8	74.6	72.2
52.5°	3551.8	2474.1	151.6	102.2	105.8	102.2	89.0	77.0	66.2	54.1	51.7
55°	3601.2	2358.7	114.3	84.2	90.2	85.4	71.0	60.1	48.1	38.5	37.3
57.5°	3559.1	2183.1	86.6	65.0	69.8	65.0	54.1	44.5	33.7	26.5	24.1
60°	3418.3	1977.4	67.4	50.5	52.9	49.3	40.9	33.7	24.1	16.8	14.4
62.5°	3151.3	1720.0	51.7	39.7	38.5	38.5	31.3	25.3	16.8	9.6	8.4
65°	2586.0	1341.1	39.7	27.7	27.7	27.7	24.1	18.0	10.8	4.8	2.4
67.5°	1623.8	780.6	32.5	21.7	20.4	20.4	16.8	12.0	6.0	1.2	0.0
70°	611.0	286.3	25.3	16.8	15.6	15.6	12.0	7.2	3.6	0.0	0.0
72°	210.5	109.5	20.4	12.0	12.0	10.8	8.4	6.0	2.4	0.0	0.0
72.5°	173.2	87.8	19.2	12.0	10.8	10.8	8.4	6.0	2.4	0.0	0.0
75°	62.5	36.1	13.2	8.4	7.2	7.2	6.0	3.6	1.2	0.0	0.0
77.5°	31.3	22.9	10.8	7.2	6.0	3.6	3.6	2.4	1.2	0.0	0.0
80°	19.2	14.4	6.0	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	13.2	8.4	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.4	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)