

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: P483262

Luminaire Tested: **IFLD-S-SA2C-750-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483262  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

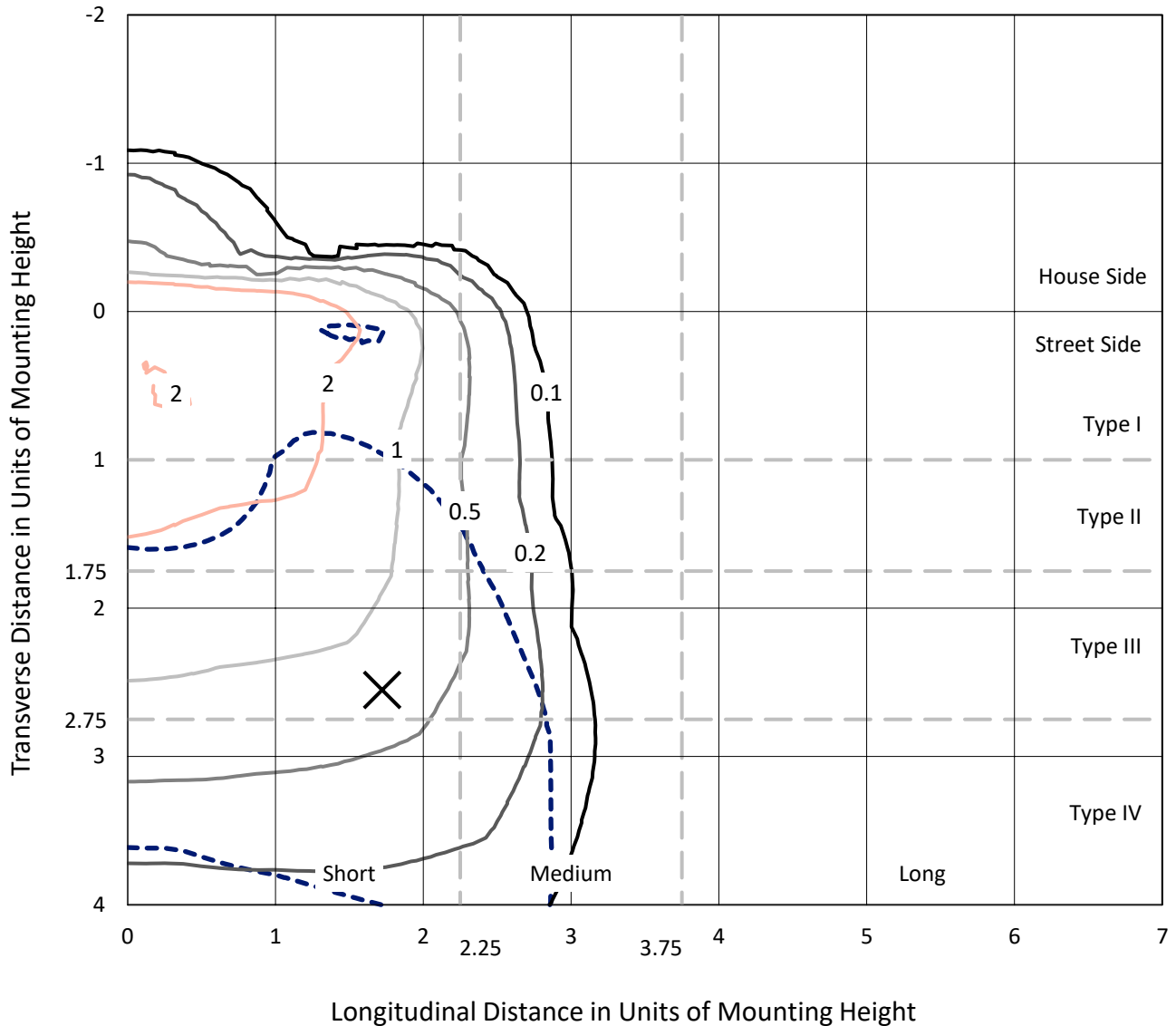
Lumens per Lamp: N/A  
Luminaire Lumens: 10512.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

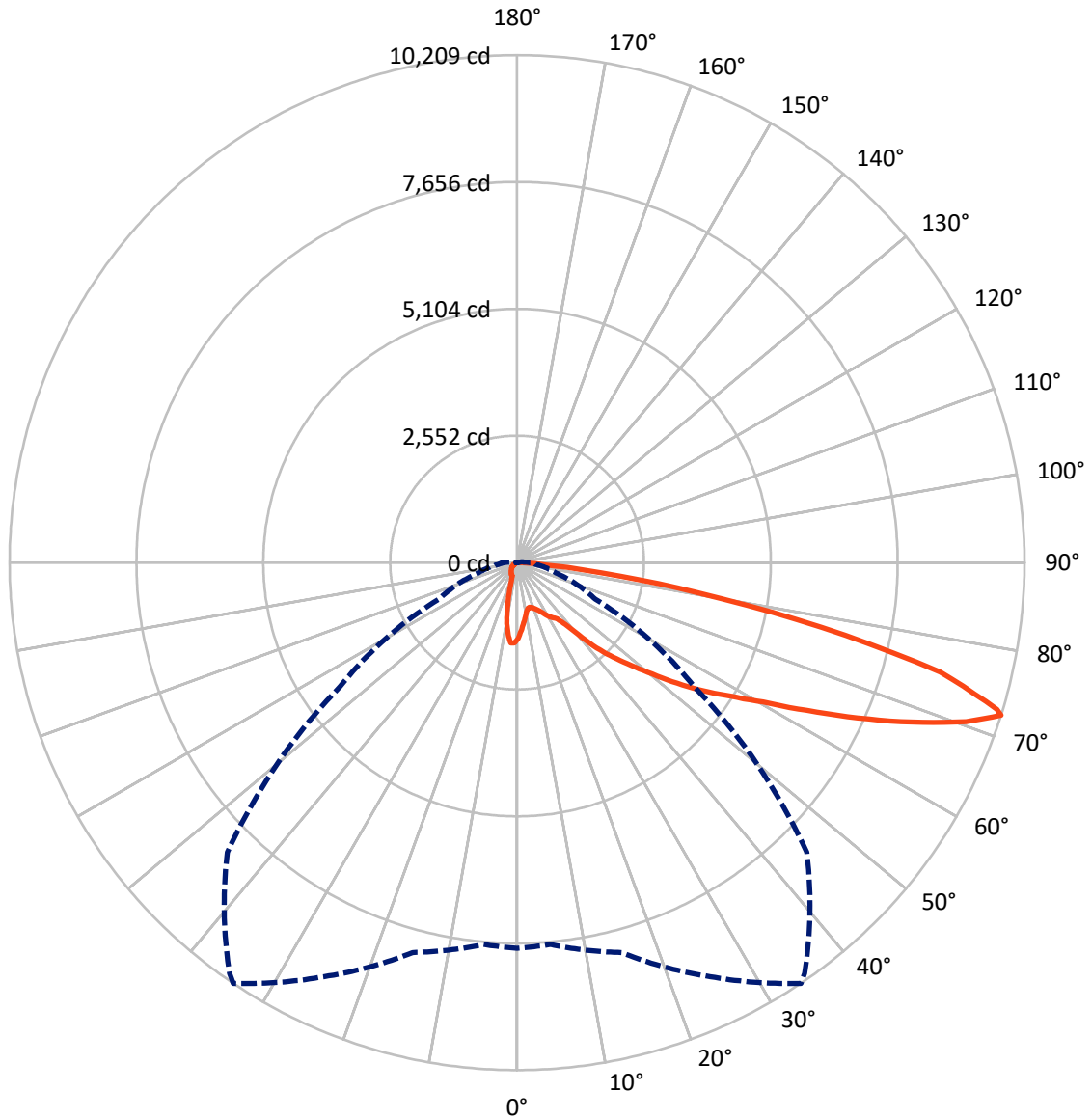
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	1076.3	0.0	1076.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	9436.6	0.0	9436.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	10512.9	0.0	10512.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	1.3
10°-20°	302.3	2.9
20°-30°	456.3	4.3
30°-40°	740.4	7.0
40°-50°	1392.3	13.2
50°-60°	2276.5	21.7
60°-70°	3026.2	28.8
70°-80°	2026.6	19.3
80°-90°	158.8	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°	10512.9	100.0
0°-180°	10512.9	100.0

**Coefficient of Utilization**



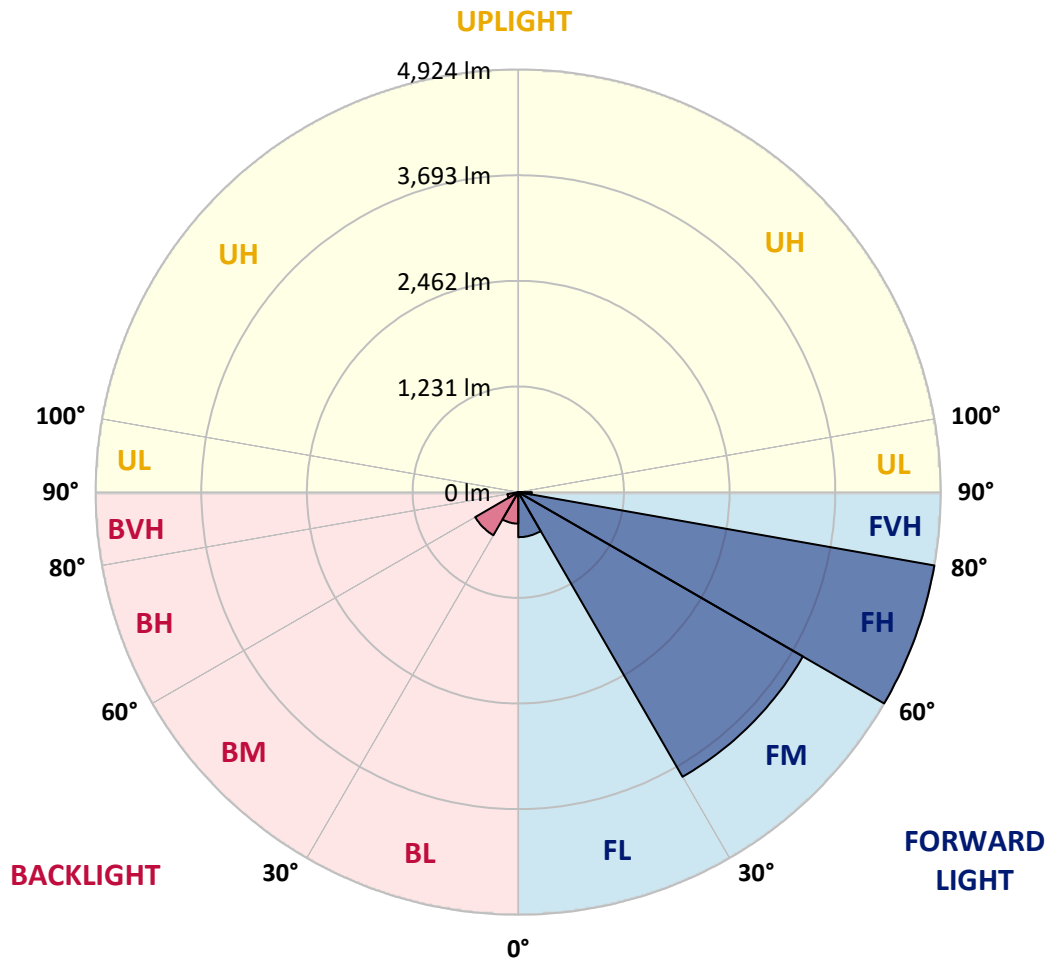
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.8	5.0			
FM (30°-60°)	3829.8	36.4			
FH (60°-80°)	4924.2	46.8			G2/5000
FVH (80°-90°)	157.8	1.5			G2/225
BL (0°-30°)	367.2	3.5	B1/500		
BM (30°-60°)	579.3	5.5	B1/1000		
BH (60°-80°)	128.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0
2.5°	1360.2	1357.2	1366.3	1381.5	1396.7	1390.6	1419.5	1449.9	1471.2	1500.0	1535.0
5°	1188.5	1196.1	1205.2	1235.6	1255.4	1259.9	1313.1	1352.6	1418.0	1484.9	1547.2
7.5°	1031.9	1041.1	1059.3	1092.7	1133.8	1144.4	1197.6	1276.6	1361.7	1449.9	1551.7
10°	918.0	927.1	946.8	968.1	1022.8	1022.8	1095.8	1205.2	1316.2	1419.5	1553.2
12.5°	893.6	898.2	896.7	913.4	948.4	956.0	1027.4	1147.5	1276.6	1408.9	1577.6
15°	922.5	925.6	910.4	901.2	931.6	939.2	1006.1	1112.5	1250.8	1414.9	1617.1
17.5°	980.3	969.6	939.2	925.6	951.4	956.0	1018.3	1111.0	1247.8	1431.7	1662.7
20°	1013.7	1025.9	972.7	946.8	983.3	989.4	1056.3	1135.3	1263.0	1460.5	1726.5
22.5°	1073.0	1079.1	1007.6	990.9	1025.9	1025.9	1101.9	1183.9	1299.4	1507.6	1802.5
25°	1156.6	1149.0	1065.4	1048.7	1082.1	1095.8	1171.8	1261.4	1355.7	1551.7	1872.4
27.5°	1221.9	1226.5	1158.1	1114.0	1170.3	1179.4	1261.4	1345.0	1398.2	1588.2	1957.5
30°	1319.2	1310.1	1237.1	1187.0	1256.9	1258.4	1337.4	1424.1	1480.3	1653.5	2085.2
32.5°	1434.7	1416.5	1332.9	1261.4	1317.7	1331.4	1411.9	1538.0	1608.0	1776.7	2282.7
35°	1679.4	1635.3	1498.5	1387.6	1392.1	1398.2	1522.8	1703.7	1784.3	1933.2	2547.2
37.5°	2036.5	2018.3	1863.3	1652.0	1571.5	1553.2	1693.1	1922.6	2022.9	2139.9	2890.7
40°	2390.7	2364.8	2220.4	2060.9	1915.0	1878.5	1948.4	2212.8	2304.0	2427.1	3243.3
42.5°	2784.3	2738.7	2568.5	2439.3	2348.1	2308.6	2281.2	2577.6	2680.9	2764.5	3588.3
45°	3182.5	3108.0	2861.8	2763.0	2714.4	2693.1	2690.1	3036.6	3098.9	3115.6	3971.3
47.5°	3532.0	3451.5	3228.1	3117.1	3080.6	3074.6	3244.8	3565.5	3516.8	3472.8	4398.3
50°	3801.0	3749.4	3588.3	3548.7	3521.4	3510.8	3908.9	4109.6	3884.6	3807.1	4773.7
52.5°	4217.5	4102.0	3919.6	3933.3	4029.0	4030.5	4582.2	4626.3	4190.1	4036.6	5127.8
55°	4550.3	4474.3	4325.4	4305.6	4557.9	4585.3	5185.6	5018.4	4360.3	4255.5	5258.5
57.5°	4942.4	4907.5	4799.5	4802.6	5067.0	5124.8	5722.1	5349.7	4501.7	4396.8	5278.3
60°	5509.3	5409.0	5352.8	5378.6	5690.2	5746.4	6241.8	5588.3	4570.1	4489.5	5229.7
62.5°	6135.5	6018.4	5957.6	6089.9	6544.3	6553.4	6637.0	5799.6	4527.5	4513.8	4916.6
65°	6889.3	6773.8	6725.1	6991.1	7530.6	7497.2	7191.7	5889.2	4392.2	4269.1	4094.4
67.5°	7640.1	7570.2	7469.8	7893.9	8565.6	8565.6	7767.7	5855.8	4038.1	3427.2	2677.9
70°	7995.7	8044.3	8203.9	8869.6	9582.4	9509.4	8336.1	5471.3	3006.2	1840.5	1053.2
72°	7758.6	7708.5	8120.3	9188.7	10208.5	10088.5	8240.4	4349.7	1737.1	807.0	366.3
72.5°	7351.3	7398.4	7965.3	9144.7	10091.5	10190.3	8006.3	4012.3	1428.6	642.9	276.6
75°	4507.7	4588.3	5945.5	7764.7	8793.6	8682.7	6193.2	1911.9	548.7	273.6	98.8
77.5°	1646.0	1712.8	2884.6	4886.2	6254.0	6184.1	3583.7	679.4	297.9	203.7	50.2
80°	428.6	463.5	980.3	2253.9	3677.9	3682.5	1500.0	272.0	202.1	167.2	30.4
82.5°	85.1	94.2	300.9	876.9	1718.9	1696.1	474.2	145.9	152.0	136.8	21.3
85°	10.6	13.7	63.8	297.9	556.2	498.5	117.0	73.0	112.5	106.4	13.7
87.5°	1.5	1.5	15.2	68.4	117.0	114.0	24.3	22.8	50.2	65.4	7.6
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°	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0	1538.0
2.5°	1554.8	1560.8	1582.1	1600.4	1621.6	1627.7	1618.6	1633.8	1612.5	1624.7	1627.7
5°	1557.8	1592.8	1632.3	1658.1	1652.0	1636.8	1624.7	1583.6	1554.8	1544.1	1566.9
7.5°	1579.1	1618.6	1661.1	1661.1	1627.7	1548.7	1472.7	1399.7	1338.9	1308.6	1334.4
10°	1606.4	1647.5	1691.5	1633.8	1509.2	1364.8	1256.9	1120.1	1027.4	978.8	983.3
12.5°	1642.9	1700.7	1715.9	1582.1	1375.4	1161.1	965.1	775.1	687.0	617.0	618.6
15°	1690.0	1746.3	1700.7	1469.7	1205.2	889.1	653.5	472.7	402.7	366.3	366.3
17.5°	1752.3	1794.9	1696.1	1366.3	975.7	607.9	401.2	319.2	304.0	297.9	297.9
20°	1825.3	1857.2	1652.0	1205.2	724.9	390.6	294.8	285.7	287.2	284.2	284.2
22.5°	1907.4	1918.0	1601.9	1018.3	490.9	288.8	275.1	276.6	278.1	275.1	276.6
25°	1994.0	1965.1	1528.9	799.4	326.8	262.9	266.0	269.0	270.5	272.0	272.0
27.5°	2091.3	2033.5	1427.1	585.1	255.3	247.7	256.8	266.0	267.5	267.5	266.0
30°	2234.1	2138.4	1328.3	396.7	224.9	231.0	246.2	256.8	264.4	264.4	262.9
32.5°	2415.0	2247.8	1190.0	270.5	208.2	211.3	223.4	244.7	261.4	262.9	258.4
35°	2665.7	2380.0	1045.6	215.8	196.1	197.6	205.2	221.9	250.8	259.9	258.4
37.5°	2930.2	2530.5	866.3	194.5	186.9	185.4	190.0	203.7	229.5	252.3	253.8
40°	3211.4	2688.5	677.8	183.9	179.3	176.3	177.8	183.9	203.7	232.5	238.6
42.5°	3475.8	2831.4	509.1	173.3	171.7	168.7	168.7	170.2	180.9	200.6	203.7
45°	3761.5	2948.4	387.6	165.7	161.1	162.6	156.5	153.5	161.1	162.6	161.1
47.5°	4029.0	3065.4	310.0	156.5	152.0	152.0	144.4	138.3	138.3	124.6	123.1
50°	4279.8	3129.3	247.7	144.4	142.9	141.3	130.7	120.1	110.9	94.2	91.2
52.5°	4488.0	3126.2	191.5	129.2	133.7	129.2	112.5	97.3	83.6	68.4	65.4
55°	4550.3	2980.3	144.4	106.4	114.0	107.9	89.7	76.0	60.8	48.6	47.1
57.5°	4497.1	2758.4	109.4	82.1	88.1	82.1	68.4	56.2	42.6	33.4	30.4
60°	4319.3	2498.6	85.1	63.8	66.9	62.3	51.7	42.6	30.4	21.3	18.2
62.5°	3981.9	2173.3	65.4	50.2	48.6	48.6	39.5	31.9	21.3	12.2	10.6
65°	3267.6	1694.6	50.2	35.0	35.0	35.0	30.4	22.8	13.7	6.1	3.0
67.5°	2051.7	986.4	41.0	27.4	25.8	25.8	21.3	15.2	7.6	1.5	0.0
70°	772.1	361.7	31.9	21.3	19.8	19.8	15.2	9.1	4.6	0.0	0.0
72°	266.0	138.3	25.8	15.2	15.2	13.7	10.6	7.6	3.0	0.0	0.0
72.5°	218.9	110.9	24.3	15.2	13.7	13.7	10.6	7.6	3.0	0.0	0.0
75°	79.0	45.6	16.7	10.6	9.1	9.1	7.6	4.6	1.5	0.0	0.0
77.5°	39.5	28.9	13.7	9.1	7.6	4.6	4.6	3.0	1.5	0.0	0.0
80°	24.3	18.2	7.6	6.1	4.6	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	16.7	10.6	4.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.6	4.6	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	3.0	1.5	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)