

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: P483224

Luminaire Tested: **IFLD-S-SA2D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483224  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-740-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

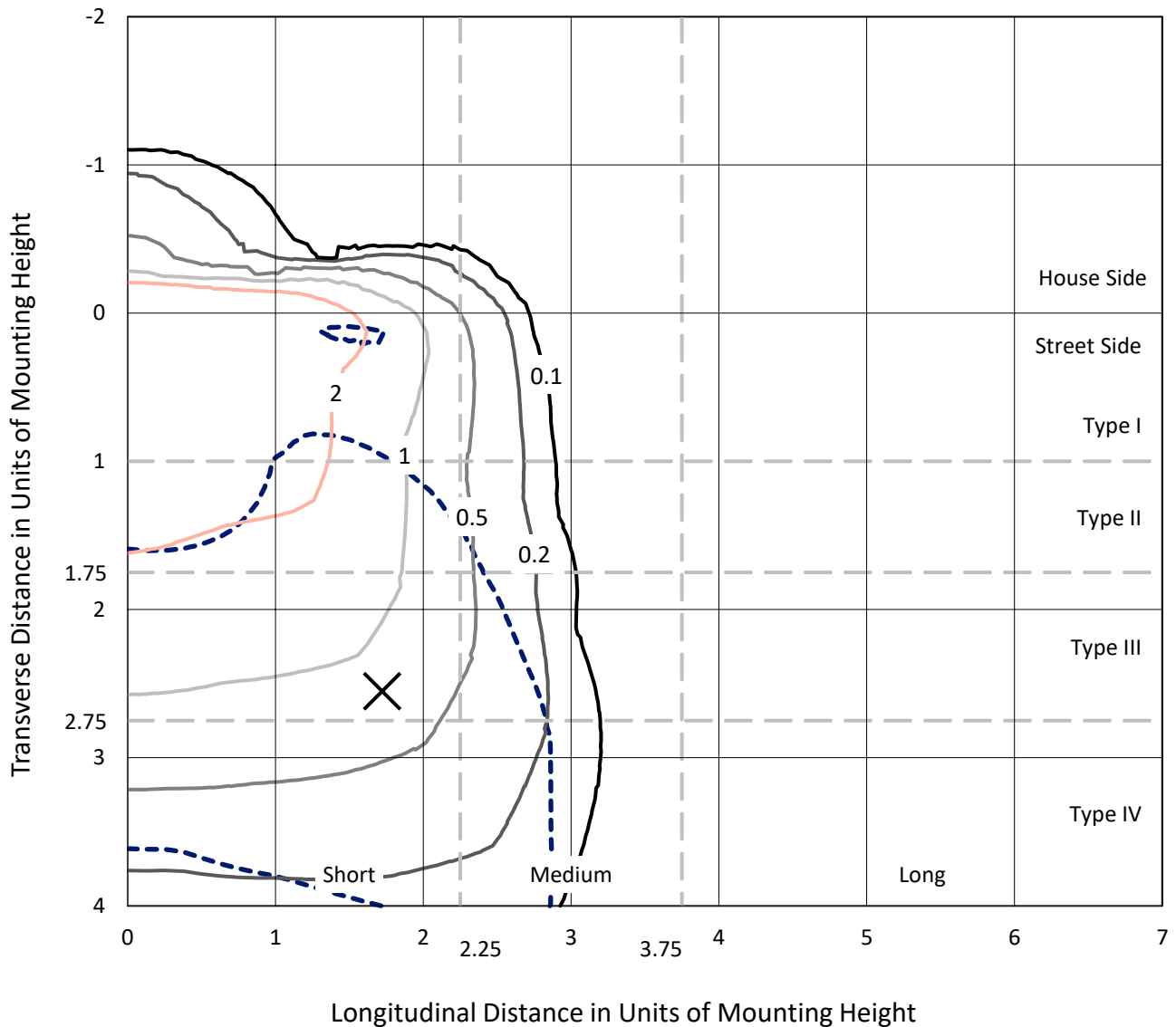
Lumens per Lamp: N/A  
Luminaire Lumens: 11308.8 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9  
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

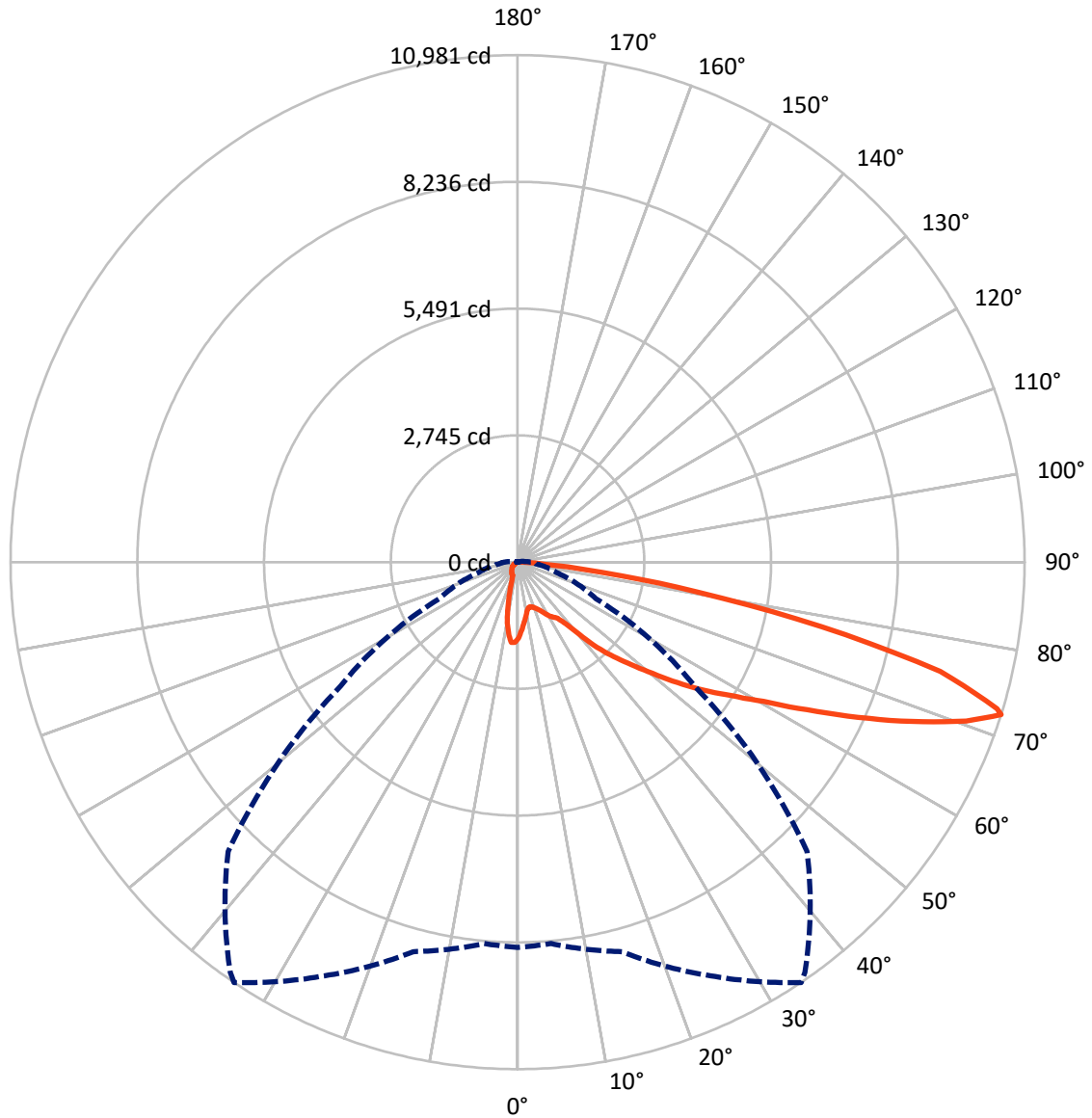
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1157.7	0.0	1157.7
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	10151.0	0.0	10151.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	11308.8	0.0	11308.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.6	1.3
10°-20°	325.2	2.9
20°-30°	490.8	4.3
30°-40°	796.5	7.0
40°-50°	1497.7	13.2
50°-60°	2448.8	21.7
60°-70°	3255.3	28.8
70°-80°	2180.1	19.3
80°-90°	170.8	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°	11308.8	100.0
0°-180°	11308.8	100.0



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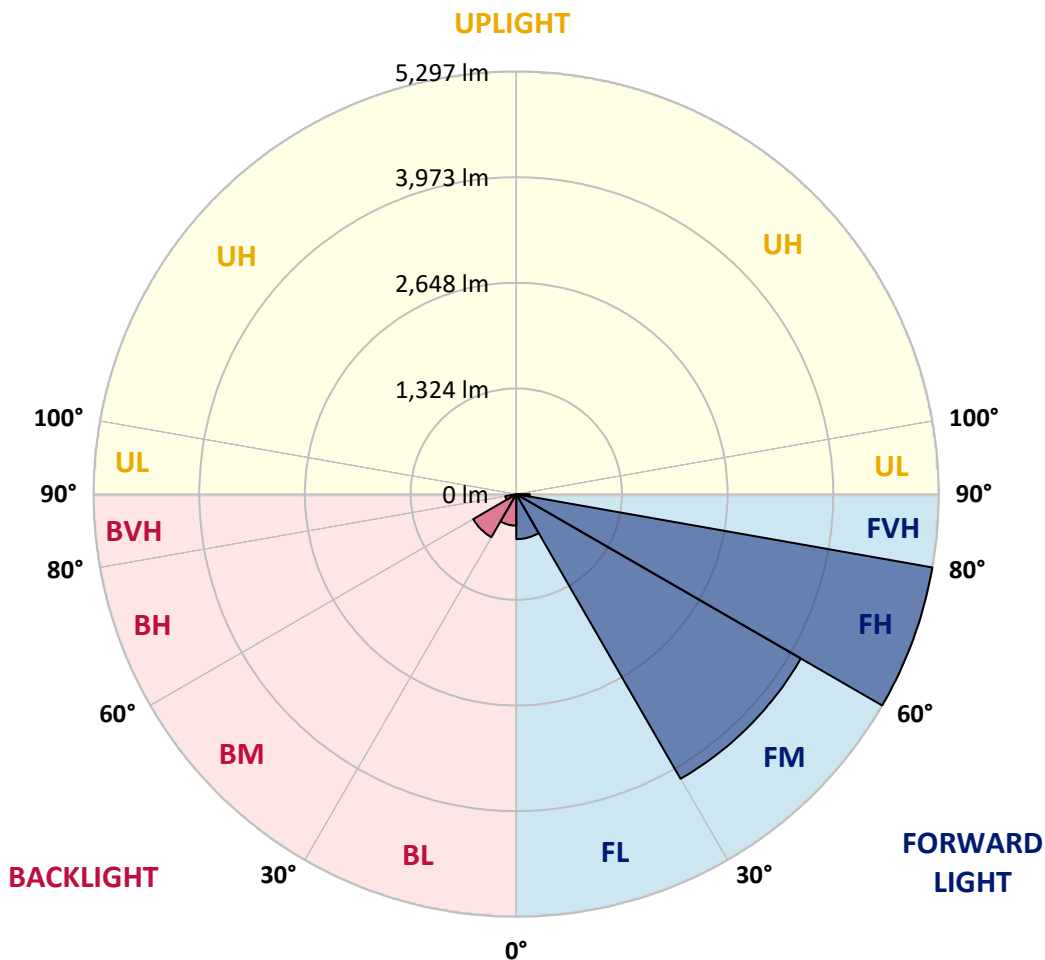
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.6	5.0			
FM (30°-60°)	4119.8	36.4			
FH (60°-80°)	5296.9	46.8			G3/7500
FVH (80°-90°)	169.8	1.5			G2/225
BL (0°-30°)	395.0	3.5	B1/500		
BM (30°-60°)	623.2	5.5	B1/1000		
BH (60°-80°)	138.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1463.2	1459.9	1469.7	1486.1	1502.4	1495.9	1527.0	1559.7	1582.5	1613.6	1651.2
5°	1278.5	1286.6	1296.4	1329.1	1350.4	1355.3	1412.5	1455.0	1525.3	1597.3	1664.3
7.5°	1110.1	1119.9	1139.5	1175.5	1219.6	1231.0	1288.3	1373.3	1464.8	1559.7	1669.2
10°	987.5	997.3	1018.5	1041.4	1100.3	1100.3	1178.7	1296.4	1415.8	1527.0	1670.8
12.5°	961.3	966.2	964.6	982.6	1020.2	1028.3	1105.2	1234.3	1373.3	1515.5	1697.0
15°	992.4	995.6	979.3	969.5	1002.2	1010.3	1082.3	1196.7	1345.5	1522.1	1739.5
17.5°	1054.5	1043.0	1010.3	995.6	1023.4	1028.3	1095.4	1195.1	1342.2	1540.0	1788.5
20°	1090.5	1103.5	1046.3	1018.5	1057.8	1064.3	1136.2	1221.2	1358.6	1571.1	1857.2
22.5°	1154.2	1160.8	1083.9	1065.9	1103.5	1103.5	1185.3	1273.6	1397.8	1621.8	1938.9
25°	1244.1	1236.0	1146.0	1128.1	1164.0	1178.7	1260.5	1356.9	1458.3	1669.2	2014.1
27.5°	1314.4	1319.3	1245.8	1198.4	1258.8	1268.7	1356.9	1446.9	1504.1	1708.4	2105.7
30°	1419.1	1409.2	1330.8	1276.8	1352.0	1353.7	1438.7	1531.9	1592.4	1778.7	2243.0
32.5°	1543.3	1523.7	1433.8	1356.9	1417.4	1432.1	1518.8	1654.5	1729.7	1911.2	2455.6
35°	1806.5	1759.1	1612.0	1492.6	1497.5	1504.1	1638.1	1832.7	1919.3	2079.5	2740.0
37.5°	2190.7	2171.1	2004.3	1777.1	1690.4	1670.8	1821.2	2068.1	2176.0	2301.9	3109.5
40°	2571.6	2543.8	2388.5	2216.9	2059.9	2020.7	2095.9	2380.4	2478.4	2610.9	3488.8
42.5°	2995.1	2946.0	2762.9	2624.0	2525.9	2483.4	2453.9	2772.7	2883.9	2973.8	3859.9
45°	3423.4	3343.3	3078.4	2972.2	2919.9	2897.0	2893.7	3266.5	3333.5	3351.5	4271.9
47.5°	3799.4	3712.8	3472.4	3353.1	3313.9	3307.3	3490.4	3835.4	3783.1	3735.7	4731.3
50°	4088.8	4033.2	3859.9	3817.4	3788.0	3776.5	4204.9	4420.7	4178.7	4095.3	5135.1
52.5°	4536.7	4412.5	4216.3	4231.0	4334.0	4335.6	4929.1	4976.5	4507.3	4342.2	5516.0
55°	4894.8	4813.0	4652.8	4631.6	4902.9	4932.4	5578.1	5398.3	4690.4	4577.6	5656.6
57.5°	5316.6	5279.0	5162.9	5166.2	5450.6	5512.7	6155.2	5754.7	4842.5	4729.7	5677.9
60°	5926.4	5818.5	5758.0	5785.8	6120.9	6181.4	6714.4	6011.4	4916.0	4829.4	5625.6
62.5°	6599.9	6474.0	6408.7	6550.9	7039.7	7049.5	7139.4	6238.6	4870.2	4855.5	5288.8
65°	7410.8	7286.6	7234.3	7520.4	8100.7	8064.8	7736.2	6335.1	4724.7	4592.3	4404.3
67.5°	8218.4	8143.2	8035.3	8491.5	9214.1	9214.1	8355.8	6299.1	4343.8	3686.6	2880.6
70°	8601.0	8653.3	8825.0	9541.0	10307.8	10229.3	8967.2	5885.5	3233.8	1979.8	1133.0
72°	8346.0	8292.0	8735.1	9884.4	10981.4	10852.2	8864.2	4679.0	1868.6	868.1	394.0
72.5°	7907.8	7958.5	8568.3	9837.0	10855.5	10961.7	8612.4	4316.0	1536.8	691.5	297.5
75°	4849.0	4935.6	6395.6	8352.5	9459.3	9340.0	6662.1	2056.7	590.2	294.3	106.3
77.5°	1770.6	1842.5	3103.0	5256.1	6727.4	6652.2	3855.0	730.8	320.4	219.1	54.0
80°	461.0	498.6	1054.5	2424.5	3956.4	3961.3	1613.6	292.6	217.4	179.8	32.7
82.5°	91.6	101.4	323.7	943.3	1849.0	1824.5	510.1	156.9	163.5	147.1	22.9
85°	11.4	14.7	68.7	320.4	598.4	536.2	125.9	78.5	121.0	114.4	14.7
87.5°	1.6	1.6	16.3	73.6	125.9	122.6	26.2	24.5	54.0	70.3	8.2
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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1672.5	1679.0	1701.9	1721.5	1744.4	1750.9	1741.1	1757.5	1734.6	1747.7	1750.9
5°	1675.7	1713.3	1755.8	1783.6	1777.1	1760.7	1747.7	1703.5	1672.5	1661.0	1685.5
7.5°	1698.6	1741.1	1786.9	1786.9	1750.9	1665.9	1584.2	1505.7	1440.3	1407.6	1435.4
10°	1728.0	1772.2	1819.6	1757.5	1623.4	1468.1	1352.0	1204.9	1105.2	1052.8	1057.8
12.5°	1767.3	1829.4	1845.8	1701.9	1479.5	1249.0	1038.1	833.8	739.0	663.8	665.4
15°	1818.0	1878.5	1829.4	1580.9	1296.4	956.4	703.0	508.4	433.2	394.0	394.0
17.5°	1885.0	1930.8	1824.5	1469.7	1049.6	653.9	431.6	343.3	327.0	320.4	320.4
20°	1963.5	1997.8	1777.1	1296.4	779.8	420.2	317.2	307.4	309.0	305.7	305.7
22.5°	2051.7	2063.2	1723.1	1095.4	528.1	310.6	295.9	297.5	299.2	295.9	297.5
25°	2144.9	2113.9	1644.7	859.9	351.5	282.8	286.1	289.4	291.0	292.6	292.6
27.5°	2249.6	2187.4	1535.1	629.4	274.7	266.5	276.3	286.1	287.7	287.7	286.1
30°	2403.2	2300.2	1428.9	426.7	242.0	248.5	264.8	276.3	284.5	284.5	282.8
32.5°	2597.8	2418.0	1280.1	291.0	224.0	227.2	240.3	263.2	281.2	282.8	277.9
35°	2867.5	2560.2	1124.8	232.2	210.9	212.5	220.7	238.7	269.8	279.6	277.9
37.5°	3152.0	2722.0	931.9	209.3	201.1	199.5	204.4	219.1	246.9	271.4	273.0
40°	3454.5	2892.1	729.1	197.8	192.9	189.6	191.3	197.8	219.1	250.1	256.7
42.5°	3738.9	3045.7	547.7	186.4	184.7	181.5	181.5	183.1	194.5	215.8	219.1
45°	4046.3	3171.6	416.9	178.2	173.3	174.9	168.4	165.1	173.3	174.9	173.3
47.5°	4334.0	3297.5	333.5	168.4	163.5	163.5	155.3	148.8	148.8	134.1	132.4
50°	4603.8	3366.2	266.5	155.3	153.7	152.0	140.6	129.2	119.3	101.4	98.1
52.5°	4827.7	3362.9	206.0	139.0	143.9	139.0	121.0	104.6	89.9	73.6	70.3
55°	4894.8	3206.0	155.3	114.4	122.6	116.1	96.5	81.7	65.4	52.3	50.7
57.5°	4837.6	2967.3	117.7	88.3	94.8	88.3	73.6	60.5	45.8	36.0	32.7
60°	4646.3	2687.7	91.6	68.7	71.9	67.0	55.6	45.8	32.7	22.9	19.6
62.5°	4283.3	2337.9	70.3	54.0	52.3	52.3	42.5	34.3	22.9	13.1	11.4
65°	3514.9	1822.9	54.0	37.6	37.6	37.6	32.7	24.5	14.7	6.5	3.3
67.5°	2207.1	1061.0	44.1	29.4	27.8	27.8	22.9	16.3	8.2	1.6	0.0
70°	830.5	389.1	34.3	22.9	21.3	21.3	16.3	9.8	4.9	0.0	0.0
72°	286.1	148.8	27.8	16.3	16.3	14.7	11.4	8.2	3.3	0.0	0.0
72.5°	235.4	119.3	26.2	16.3	14.7	14.7	11.4	8.2	3.3	0.0	0.0
75°	85.0	49.0	18.0	11.4	9.8	9.8	8.2	4.9	1.6	0.0	0.0
77.5°	42.5	31.1	14.7	9.8	8.2	4.9	4.9	3.3	1.6	0.0	0.0
80°	26.2	19.6	8.2	6.5	4.9	3.3	1.6	1.6	0.0	0.0	0.0
82.5°	18.0	11.4	4.9	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.4	4.9	3.3	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.3	1.6	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)