

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: P483185

Luminaire Tested: **IFLD-S-SA2D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483185  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

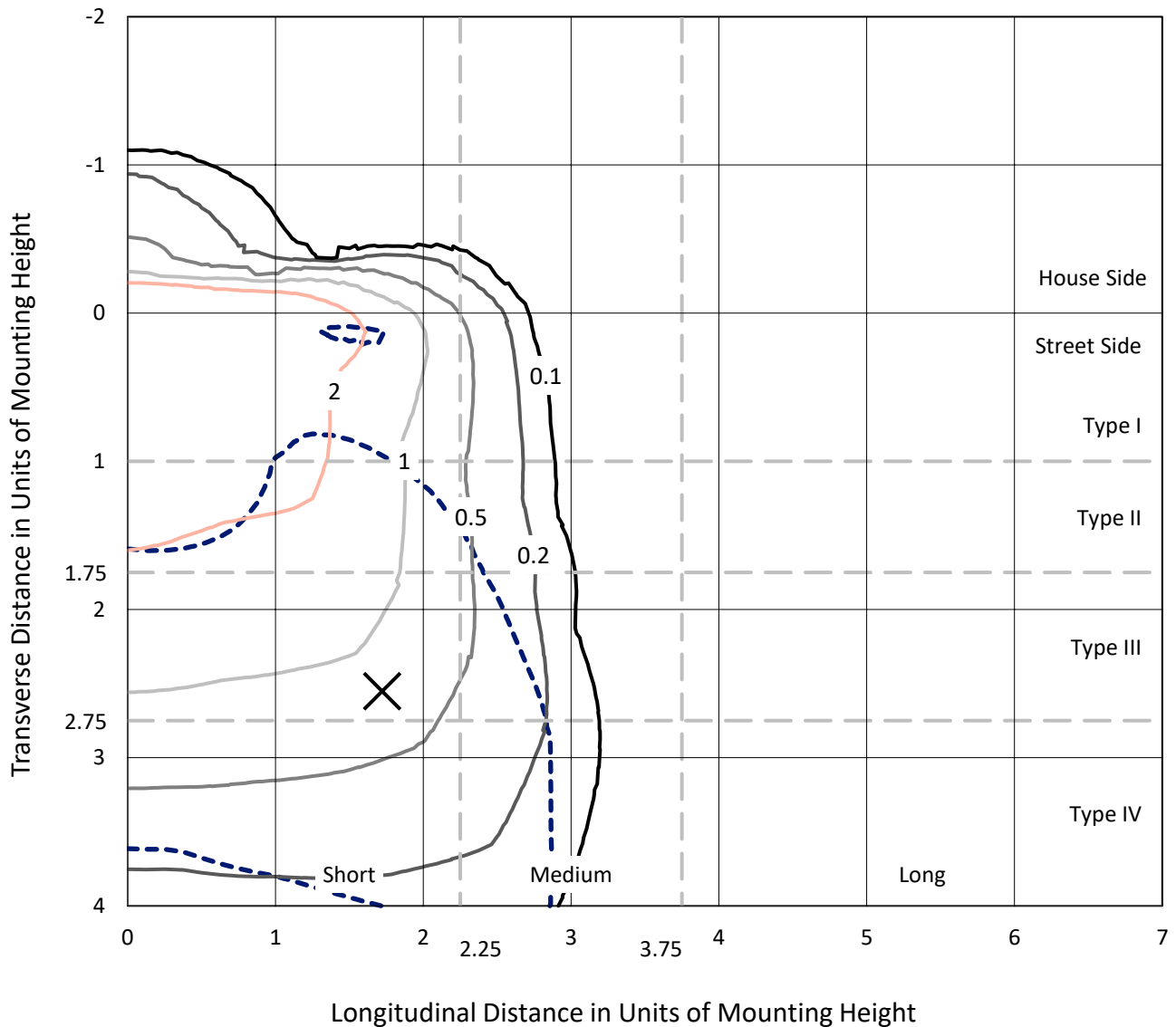
Lumens per Lamp: N/A  
Luminaire Lumens: 11153.8 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

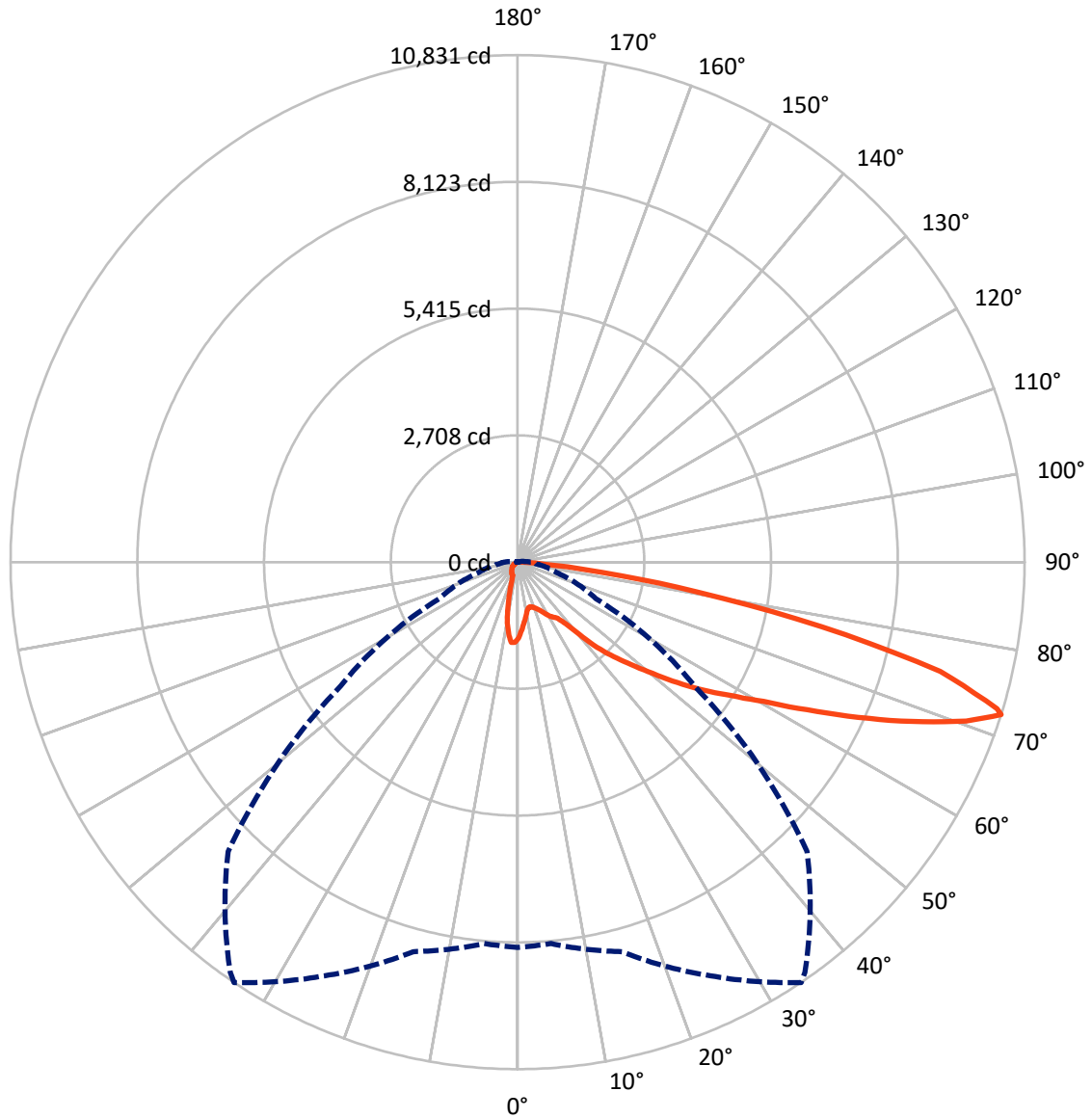
× Max cd  
 - - - 1/2 Max cd



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	1141.9	0.0	1141.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	10011.9	0.0	10011.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	11153.8	0.0	11153.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	1.3
10°-20°	320.7	2.9
20°-30°	484.1	4.3
30°-40°	785.6	7.0
40°-50°	1477.2	13.2
50°-60°	2415.2	21.7
60°-70°	3210.7	28.8
70°-80°	2150.2	19.3
80°-90°	168.5	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°	11153.8	100.0
0°-180°	11153.8	100.0

**Coefficient of Utilization**



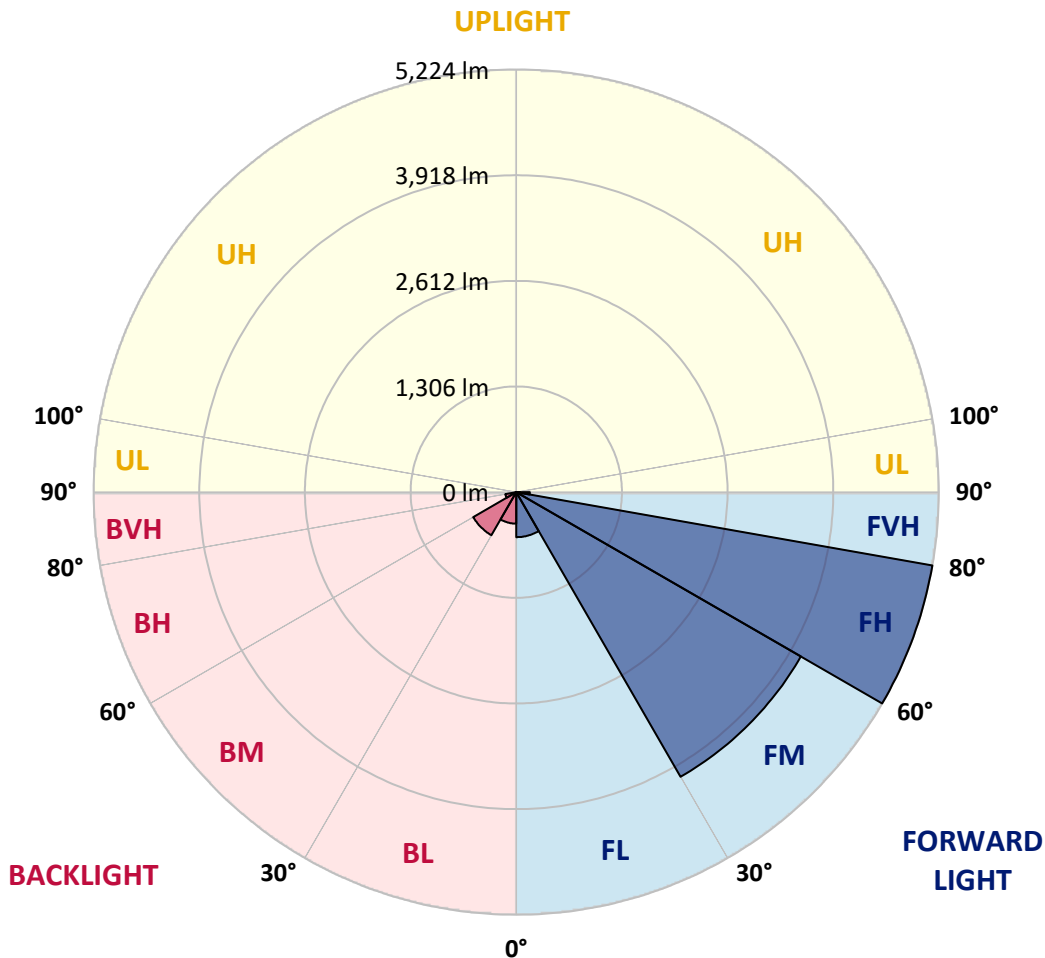
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.8	5.0			
FM (30°-60°)	4063.3	36.4			
FH (60°-80°)	5224.4	46.8			G3/7500
FVH (80°-90°)	167.4	1.5			G2/225
BL (0°-30°)	389.6	3.5	B1/500		
BM (30°-60°)	614.7	5.5	B1/1000		
BH (60°-80°)	136.5	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°	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1443.2	1439.9	1449.6	1465.7	1481.9	1475.4	1506.0	1538.3	1560.9	1591.5	1628.6
5°	1260.9	1269.0	1278.7	1310.9	1331.9	1336.7	1393.2	1435.1	1504.4	1575.4	1641.5
7.5°	1094.9	1104.5	1123.9	1159.4	1202.9	1214.2	1270.6	1354.5	1444.8	1538.3	1646.3
10°	973.9	983.6	1004.6	1027.1	1085.2	1085.2	1162.6	1278.7	1396.4	1506.0	1647.9
12.5°	948.1	953.0	951.4	969.1	1006.2	1014.2	1090.0	1217.4	1354.5	1494.8	1673.7
15°	978.8	982.0	965.9	956.2	988.4	996.5	1067.5	1180.3	1327.1	1501.2	1715.7
17.5°	1040.0	1028.8	996.5	982.0	1009.4	1014.2	1080.3	1178.7	1323.8	1518.9	1764.0
20°	1075.5	1088.4	1032.0	1004.6	1043.3	1049.7	1120.7	1204.5	1340.0	1549.6	1831.8
22.5°	1138.4	1144.8	1069.1	1051.3	1088.4	1088.4	1169.0	1256.1	1378.7	1599.6	1912.4
25°	1227.1	1219.0	1130.3	1112.6	1148.1	1162.6	1243.2	1338.3	1438.3	1646.3	1986.6
27.5°	1296.4	1301.3	1228.7	1181.9	1241.6	1251.3	1338.3	1427.0	1483.5	1685.0	2076.9
30°	1399.6	1389.9	1312.5	1259.3	1333.5	1335.1	1419.0	1510.9	1570.5	1754.4	2212.3
32.5°	1522.2	1502.8	1414.1	1338.3	1398.0	1412.5	1498.0	1631.8	1706.0	1885.0	2421.9
35°	1781.8	1735.0	1589.9	1472.2	1477.0	1483.5	1615.7	1807.6	1893.0	2051.1	2702.5
37.5°	2160.7	2141.4	1976.9	1752.7	1667.3	1647.9	1796.3	2039.8	2146.2	2270.3	3066.9
40°	2536.4	2509.0	2355.8	2186.5	2031.7	1993.0	2067.2	2347.7	2444.5	2575.1	3441.0
42.5°	2954.0	2905.7	2725.1	2588.0	2491.3	2449.3	2420.3	2734.7	2844.4	2933.1	3807.0
45°	3376.5	3297.5	3036.3	2931.5	2879.9	2857.3	2854.1	3221.7	3287.8	3305.5	4213.4
47.5°	3747.4	3661.9	3424.9	3307.2	3268.5	3262.0	3442.6	3782.8	3731.2	3684.5	4666.5
50°	4032.8	3977.9	3807.0	3765.1	3736.1	3724.8	4147.3	4360.1	4121.5	4039.2	5064.7
52.5°	4474.6	4352.0	4158.5	4173.1	4274.6	4276.3	4861.6	4908.3	4445.6	4282.7	5440.4
55°	4827.7	4747.1	4589.1	4568.1	4835.8	4864.8	5501.7	5324.4	4626.2	4514.9	5579.1
57.5°	5243.7	5206.6	5092.2	5095.4	5376.0	5437.2	6070.9	5675.9	4776.1	4664.9	5600.1
60°	5845.2	5738.8	5679.1	5706.5	6037.1	6096.7	6622.4	5929.0	4848.7	4763.2	5548.5
62.5°	6509.5	6385.4	6320.9	6461.1	6943.3	6952.9	7041.6	6153.2	4803.5	4789.0	5216.3
65°	7309.3	7186.7	7135.1	7417.3	7989.8	7954.3	7630.2	6248.3	4660.0	4529.4	4344.0
67.5°	8105.8	8031.7	7925.3	8375.1	9087.8	9087.8	8241.3	6212.8	4284.3	3636.1	2841.2
70°	8483.2	8534.8	8704.1	9410.3	10166.6	10089.2	8844.4	5804.9	3189.5	1952.7	1117.4
72°	8231.6	8178.4	8615.4	9748.9	10830.9	10703.5	8742.8	4614.9	1843.0	856.2	388.6
72.5°	7799.5	7849.5	8450.9	9702.2	10706.8	10811.6	8494.5	4256.9	1515.7	682.1	293.5
75°	4782.6	4868.0	6308.0	8238.1	9329.7	9212.0	6570.8	2028.5	582.1	290.2	104.8
77.5°	1746.3	1817.2	3060.5	5184.1	6635.3	6561.1	3802.2	720.8	316.0	216.1	53.2
80°	454.7	491.8	1040.0	2391.3	3902.2	3907.0	1591.5	288.6	214.5	177.4	32.2
82.5°	90.3	100.0	319.3	930.4	1823.7	1799.5	503.1	154.8	161.2	145.1	22.6
85°	11.3	14.5	67.7	316.0	590.2	528.9	124.2	77.4	119.3	112.9	14.5
87.5°	1.6	1.6	16.1	72.6	124.2	120.9	25.8	24.2	53.2	69.3	8.1
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°	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1649.5	1656.0	1678.6	1697.9	1720.5	1726.9	1717.3	1733.4	1710.8	1723.7	1726.9
5°	1652.8	1689.9	1731.8	1759.2	1752.7	1736.6	1723.7	1680.2	1649.5	1638.3	1662.4
7.5°	1675.3	1717.3	1762.4	1762.4	1726.9	1643.1	1562.5	1485.1	1420.6	1388.3	1415.7
10°	1704.4	1747.9	1794.7	1733.4	1601.2	1448.0	1333.5	1188.4	1090.0	1038.4	1043.3
12.5°	1743.1	1804.3	1820.5	1678.6	1459.3	1231.9	1023.9	822.4	728.8	654.7	656.3
15°	1793.1	1852.7	1804.3	1559.3	1278.7	943.3	693.4	501.5	427.3	388.6	388.6
17.5°	1859.2	1904.3	1799.5	1449.6	1035.2	645.0	425.7	338.6	322.5	316.0	316.0
20°	1936.6	1970.4	1752.7	1278.7	769.1	414.4	312.8	303.1	304.8	301.5	301.5
22.5°	2023.6	2034.9	1699.5	1080.3	520.8	306.4	291.9	293.5	295.1	291.9	293.5
25°	2115.6	2084.9	1622.1	848.2	346.7	279.0	282.2	285.4	287.0	288.6	288.6
27.5°	2218.7	2157.5	1514.1	620.8	270.9	262.8	272.5	282.2	283.8	283.8	282.2
30°	2370.3	2268.7	1409.3	420.9	238.6	245.1	261.2	272.5	280.6	280.6	279.0
32.5°	2562.2	2384.8	1262.6	287.0	220.9	224.1	237.0	259.6	277.3	279.0	274.1
35°	2828.3	2525.1	1109.4	229.0	208.0	209.6	217.7	235.4	266.1	275.7	274.1
37.5°	3108.8	2684.8	919.1	206.4	198.3	196.7	201.6	216.1	243.5	267.7	269.3
40°	3407.1	2852.4	719.2	195.1	190.3	187.0	188.7	195.1	216.1	246.7	253.2
42.5°	3687.7	3004.0	540.2	183.8	182.2	179.0	179.0	180.6	191.9	212.8	216.1
45°	3990.8	3128.2	411.2	175.8	170.9	172.5	166.1	162.9	170.9	172.5	170.9
47.5°	4274.6	3252.3	328.9	166.1	161.2	161.2	153.2	146.7	146.7	132.2	130.6
50°	4540.7	3320.1	262.8	153.2	151.6	150.0	138.7	127.4	117.7	100.0	96.7
52.5°	4761.6	3316.8	203.2	137.1	141.9	137.1	119.3	103.2	88.7	72.6	69.3
55°	4827.7	3162.0	153.2	112.9	120.9	114.5	95.1	80.6	64.5	51.6	50.0
57.5°	4771.3	2926.6	116.1	87.1	93.5	87.1	72.6	59.7	45.1	35.5	32.2
60°	4582.6	2650.9	90.3	67.7	70.9	66.1	54.8	45.1	32.2	22.6	19.3
62.5°	4224.7	2305.8	69.3	53.2	51.6	51.6	41.9	33.9	22.6	12.9	11.3
65°	3466.8	1797.9	53.2	37.1	37.1	37.1	32.2	24.2	14.5	6.4	3.2
67.5°	2176.8	1046.5	43.5	29.0	27.4	27.4	22.6	16.1	8.1	1.6	0.0
70°	819.1	383.8	33.9	22.6	21.0	21.0	16.1	9.7	4.8	0.0	0.0
72°	282.2	146.7	27.4	16.1	16.1	14.5	11.3	8.1	3.2	0.0	0.0
72.5°	232.2	117.7	25.8	16.1	14.5	14.5	11.3	8.1	3.2	0.0	0.0
75°	83.8	48.4	17.7	11.3	9.7	9.7	8.1	4.8	1.6	0.0	0.0
77.5°	41.9	30.6	14.5	9.7	8.1	4.8	4.8	3.2	1.6	0.0	0.0
80°	25.8	19.3	8.1	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	17.7	11.3	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.3	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	3.2	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)