

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: P483168

Luminaire Tested: **IFLD-M-SA4A-730-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483168  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-730-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

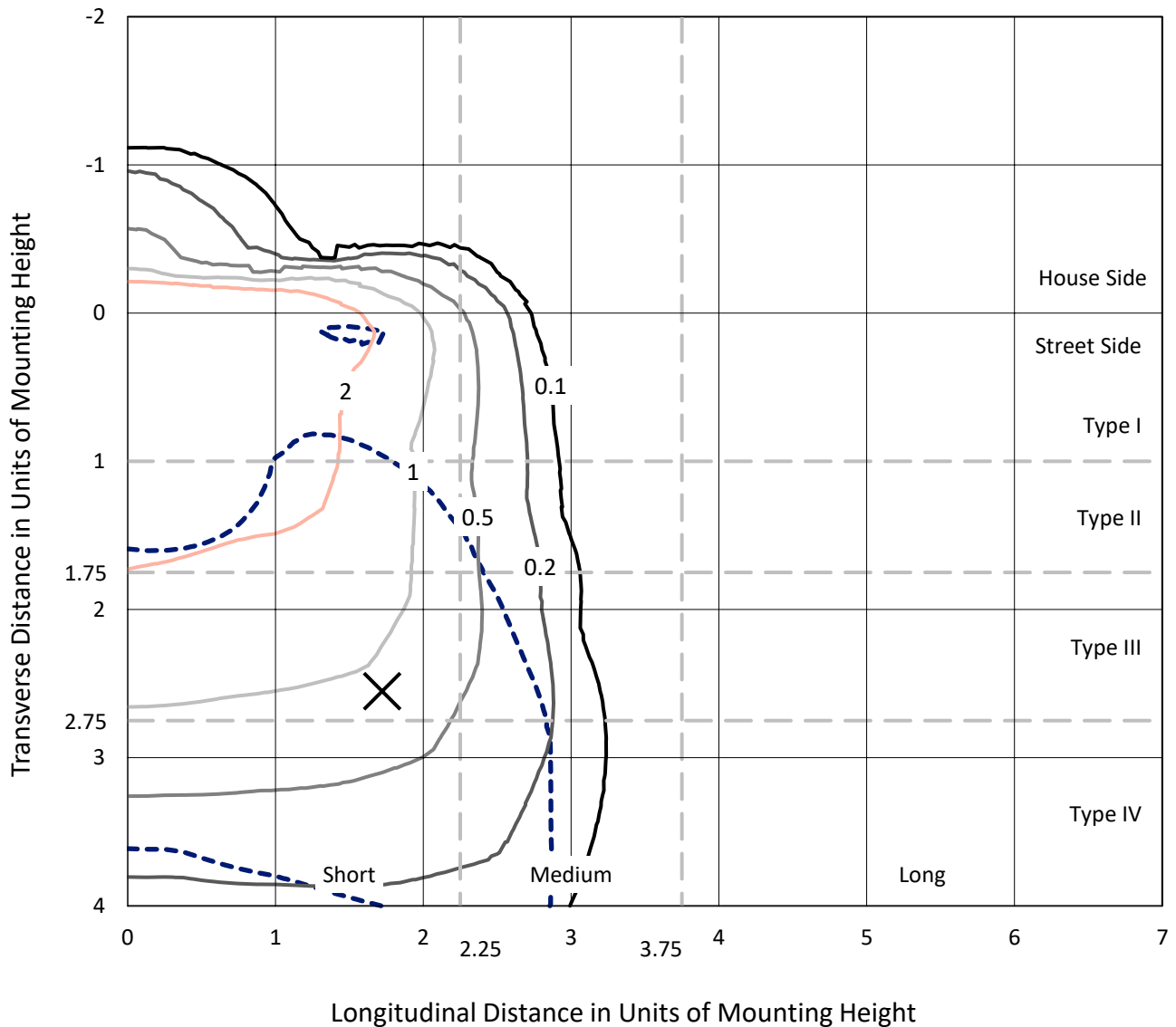
Lumens per Lamp: N/A  
Luminaire Lumens: 12159.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6  
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

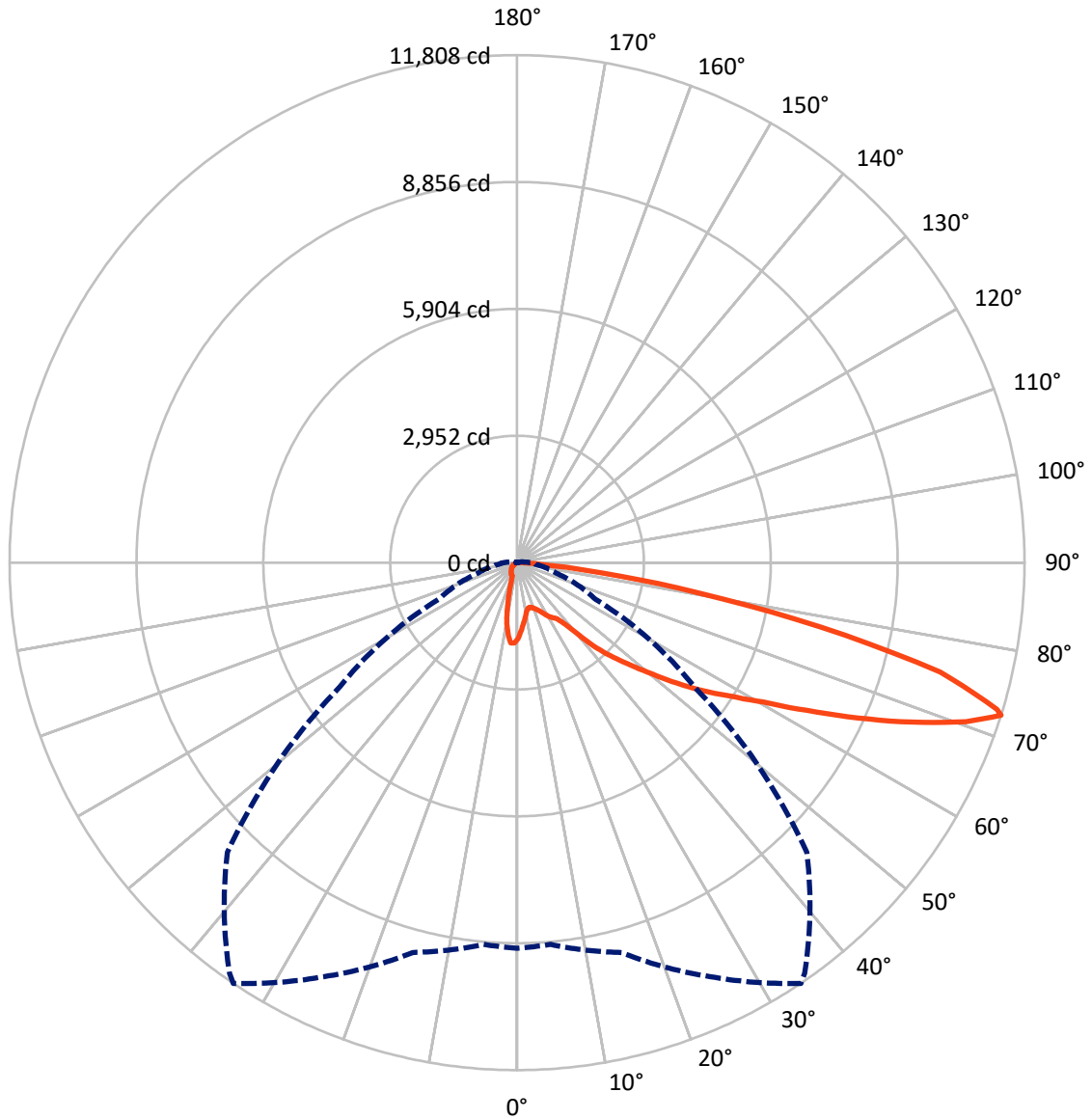
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	1244.9	0.0	1244.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	10914.9	0.0	10914.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	12159.7	0.0	12159.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	1.3
10°-20°	349.6	2.9
20°-30°	527.7	4.3
30°-40°	856.4	7.0
40°-50°	1610.4	13.2
50°-60°	2633.1	21.7
60°-70°	3500.3	28.8
70°-80°	2344.1	19.3
80°-90°	183.7	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°	12159.7	100.0
0°-180°	12159.7	100.0

**Coefficient of Utilization**



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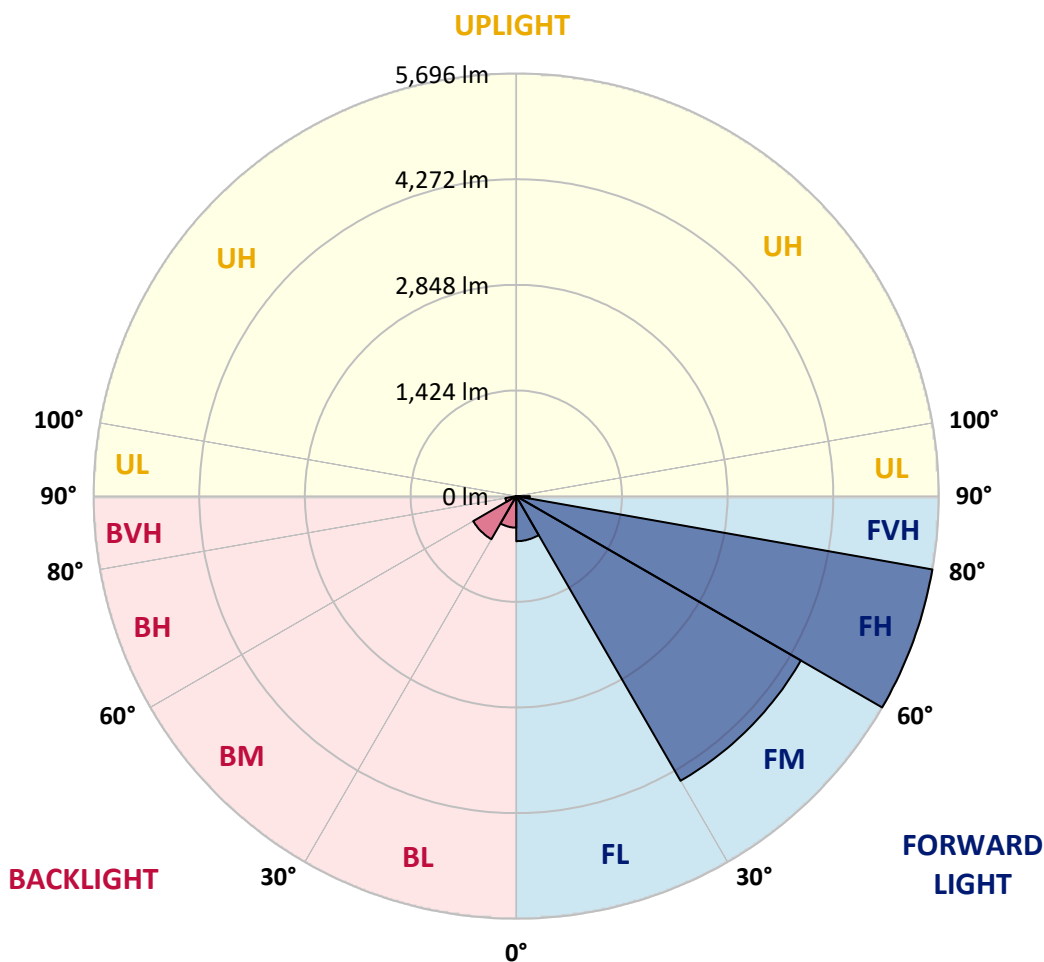
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.0	5.0			
FM (30°-60°)	4429.8	36.4			
FH (60°-80°)	5695.5	46.8			G3/7500
FVH (80°-90°)	182.5	1.5			G2/225
BL (0°-30°)	424.7	3.5	B1/500		
BM (30°-60°)	670.1	5.5	B1/1000		
BH (60°-80°)	148.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0
2.5°	1573.3	1569.8	1580.3	1597.9	1615.5	1608.5	1641.9	1677.0	1701.6	1735.0	1775.5
5°	1374.7	1383.5	1394.0	1429.2	1452.0	1457.3	1518.8	1564.5	1640.1	1717.5	1789.5
7.5°	1193.6	1204.1	1225.2	1263.9	1311.4	1323.7	1385.2	1476.6	1575.1	1677.0	1794.8
10°	1061.8	1072.3	1095.2	1119.8	1183.1	1183.1	1267.4	1394.0	1522.3	1641.9	1796.6
12.5°	1033.6	1038.9	1037.2	1056.5	1096.9	1105.7	1188.3	1327.2	1476.6	1629.6	1824.7
15°	1067.0	1070.6	1053.0	1042.4	1077.6	1086.4	1163.7	1286.8	1446.7	1636.6	1870.4
17.5°	1133.8	1121.5	1086.4	1070.6	1100.4	1105.7	1177.8	1285.0	1443.2	1655.9	1923.1
20°	1172.5	1186.6	1125.0	1095.2	1137.3	1144.4	1221.7	1313.1	1460.8	1689.3	1997.0
22.5°	1241.1	1248.1	1165.5	1146.1	1186.6	1186.6	1274.5	1369.4	1503.0	1743.8	2084.8
25°	1337.7	1329.0	1232.3	1212.9	1251.6	1267.4	1355.3	1459.0	1568.0	1794.8	2165.7
27.5°	1413.3	1418.6	1339.5	1288.5	1353.6	1364.1	1459.0	1555.7	1617.3	1837.0	2264.2
30°	1525.8	1515.3	1430.9	1372.9	1453.8	1455.5	1546.9	1647.1	1712.2	1912.6	2411.8
32.5°	1659.4	1638.3	1541.7	1459.0	1524.1	1539.9	1633.1	1779.0	1859.8	2055.0	2640.3
35°	1942.5	1891.5	1733.3	1604.9	1610.2	1617.3	1761.4	1970.6	2063.8	2236.0	2946.2
37.5°	2355.6	2334.5	2155.2	1910.8	1817.6	1796.6	1958.3	2223.7	2339.7	2475.1	3343.5
40°	2765.1	2735.3	2568.3	2383.7	2214.9	2172.7	2253.6	2559.5	2664.9	2807.3	3751.3
42.5°	3220.4	3167.7	2970.8	2821.4	2715.9	2670.2	2638.6	2981.4	3100.9	3197.6	4150.4
45°	3681.0	3594.9	3310.1	3195.8	3139.6	3115.0	3111.5	3512.2	3584.3	3603.7	4593.3
47.5°	4085.3	3992.1	3733.7	3605.4	3563.2	3556.2	3753.1	4124.0	4067.7	4016.8	5087.3
50°	4396.5	4336.7	4150.4	4104.7	4073.0	4060.7	4521.3	4753.3	4493.1	4403.5	5521.5
52.5°	4878.1	4744.5	4533.6	4549.4	4660.1	4661.9	5300.0	5351.0	4846.5	4668.9	5931.1
55°	5263.1	5175.2	5002.9	4980.1	5271.9	5303.5	5997.9	5804.5	5043.4	4922.1	6082.3
57.5°	5716.6	5676.2	5551.4	5554.9	5860.8	5927.6	6618.4	6187.7	5206.8	5085.6	6105.1
60°	6372.3	6256.3	6191.3	6221.1	6581.5	6646.6	7219.6	6463.7	5286.0	5192.8	6048.9
62.5°	7096.6	6961.2	6890.9	7043.8	7569.4	7580.0	7676.7	6708.1	5236.7	5220.9	5686.7
65°	7968.5	7834.9	7778.6	8086.3	8710.3	8671.6	8318.3	6811.8	5080.3	4937.9	4735.7
67.5°	8836.9	8756.0	8640.0	9130.4	9907.4	9907.4	8984.5	6773.1	4670.7	3964.0	3097.4
70°	9248.2	9304.5	9489.0	10259.0	11083.4	10999.1	9642.0	6328.4	3477.1	2128.8	1218.2
72°	8974.0	8916.0	9392.4	10628.2	11807.7	11668.8	9531.2	5031.1	2009.3	933.4	423.6
72.5°	8502.9	8557.4	9213.1	10577.2	11672.3	11786.6	9260.5	4640.8	1652.4	743.6	319.9
75°	5213.9	5307.0	6876.8	8981.0	10171.1	10042.8	7163.4	2211.4	634.6	316.4	114.3
77.5°	1903.8	1981.1	3336.5	5651.6	7233.7	7152.8	4145.1	785.8	344.5	235.6	58.0
80°	495.7	536.2	1133.8	2606.9	4254.1	4259.3	1735.0	314.7	233.8	193.4	35.2
82.5°	98.4	109.0	348.1	1014.3	1988.2	1961.8	548.5	168.8	175.8	158.2	24.6
85°	12.3	15.8	73.8	344.5	643.4	576.6	135.4	84.4	130.1	123.1	15.8
87.5°	1.8	1.8	17.6	79.1	135.4	131.8	28.1	26.4	58.0	75.6	8.8
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°	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0
2.5°	1798.3	1805.3	1830.0	1851.0	1875.7	1882.7	1872.1	1889.7	1865.1	1879.2	1882.7
5°	1801.8	1842.3	1888.0	1917.8	1910.8	1893.2	1879.2	1831.7	1798.3	1786.0	1812.4
7.5°	1826.4	1872.1	1921.4	1921.4	1882.7	1791.3	1703.4	1619.0	1548.7	1513.5	1543.4
10°	1858.1	1905.5	1956.5	1889.7	1745.6	1578.6	1453.8	1295.6	1188.3	1132.1	1137.3
12.5°	1900.3	1967.1	1984.6	1830.0	1590.9	1343.0	1116.3	896.5	794.6	713.7	715.5
15°	1954.8	2019.8	1967.1	1699.9	1394.0	1028.4	755.9	546.7	465.8	423.6	423.6
17.5°	2026.8	2076.1	1961.8	1580.3	1128.6	703.2	464.1	369.2	351.6	344.5	344.5
20°	2111.2	2148.1	1910.8	1394.0	838.5	451.8	341.0	330.5	332.2	328.7	328.7
22.5°	2206.1	2218.4	1852.8	1177.8	567.8	334.0	318.2	319.9	321.7	318.2	319.9
25°	2306.3	2272.9	1768.4	924.6	377.9	304.1	307.6	311.1	312.9	314.7	314.7
27.5°	2418.8	2352.0	1650.7	676.8	295.3	286.5	297.1	307.6	309.4	309.4	307.6
30°	2584.1	2473.3	1536.4	458.8	260.2	267.2	284.8	297.1	305.9	305.9	304.1
32.5°	2793.3	2599.9	1376.4	312.9	240.8	244.3	258.4	283.0	302.4	304.1	298.8
35°	3083.3	2752.8	1209.4	249.6	226.8	228.5	237.3	256.7	290.1	300.6	298.8
37.5°	3389.2	2926.9	1002.0	225.0	216.2	214.5	219.7	235.6	265.4	291.8	293.6
40°	3714.4	3109.7	784.0	212.7	207.4	203.9	205.7	212.7	235.6	269.0	276.0
42.5°	4020.3	3274.9	588.9	200.4	198.6	195.1	195.1	196.9	209.2	232.0	235.6
45°	4350.8	3410.3	448.3	191.6	186.3	188.1	181.1	177.5	186.3	188.1	186.3
47.5°	4660.1	3545.6	358.6	181.1	175.8	175.8	167.0	160.0	160.0	144.1	142.4
50°	4950.2	3619.5	286.5	167.0	165.2	163.5	151.2	138.9	128.3	109.0	105.5
52.5°	5191.0	3616.0	221.5	149.4	154.7	149.4	130.1	112.5	96.7	79.1	75.6
55°	5263.1	3447.2	167.0	123.1	131.8	124.8	103.7	87.9	70.3	56.3	54.5
57.5°	5201.6	3190.6	126.6	94.9	102.0	94.9	79.1	65.0	49.2	38.7	35.2
60°	4995.9	2890.0	98.4	73.8	77.3	72.1	59.8	49.2	35.2	24.6	21.1
62.5°	4605.7	2513.8	75.6	58.0	56.3	56.3	45.7	36.9	24.6	14.1	12.3
65°	3779.4	1960.0	58.0	40.4	40.4	40.4	35.2	26.4	15.8	7.0	3.5
67.5°	2373.1	1140.9	47.5	31.6	29.9	29.9	24.6	17.6	8.8	1.8	0.0
70°	893.0	418.4	36.9	24.6	22.9	22.9	17.6	10.5	5.3	0.0	0.0
72°	307.6	160.0	29.9	17.6	17.6	15.8	12.3	8.8	3.5	0.0	0.0
72.5°	253.1	128.3	28.1	17.6	15.8	15.8	12.3	8.8	3.5	0.0	0.0
75°	91.4	52.7	19.3	12.3	10.5	10.5	8.8	5.3	1.8	0.0	0.0
77.5°	45.7	33.4	15.8	10.5	8.8	5.3	5.3	3.5	1.8	0.0	0.0
80°	28.1	21.1	8.8	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	19.3	12.3	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.3	5.3	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.5	1.8	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)