

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: P483246

Luminaire Tested: **IFLD-M-SA4A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483246  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT  
distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

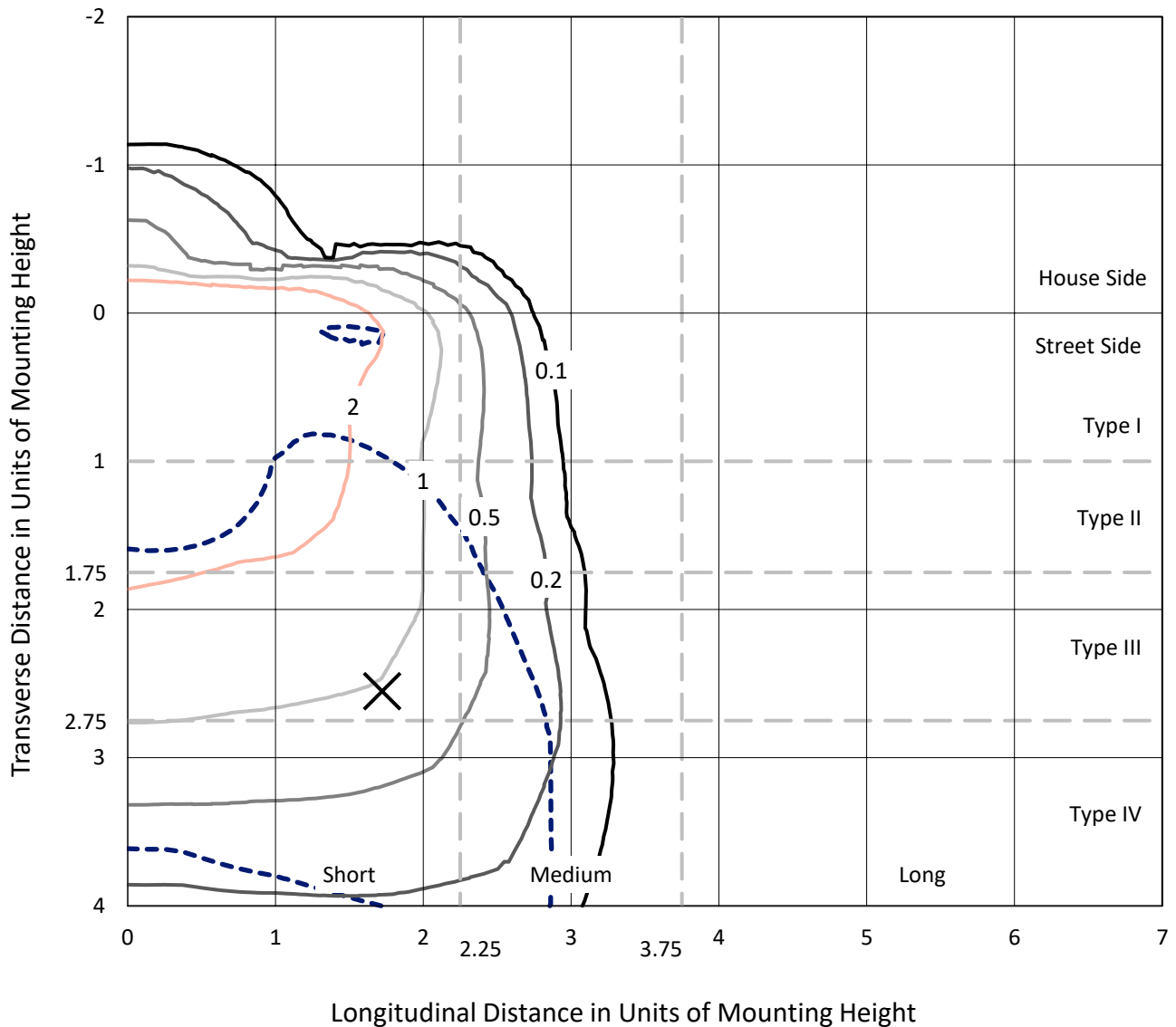
Lumens per Lamp: N/A  
Luminaire Lumens: 13353.5 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

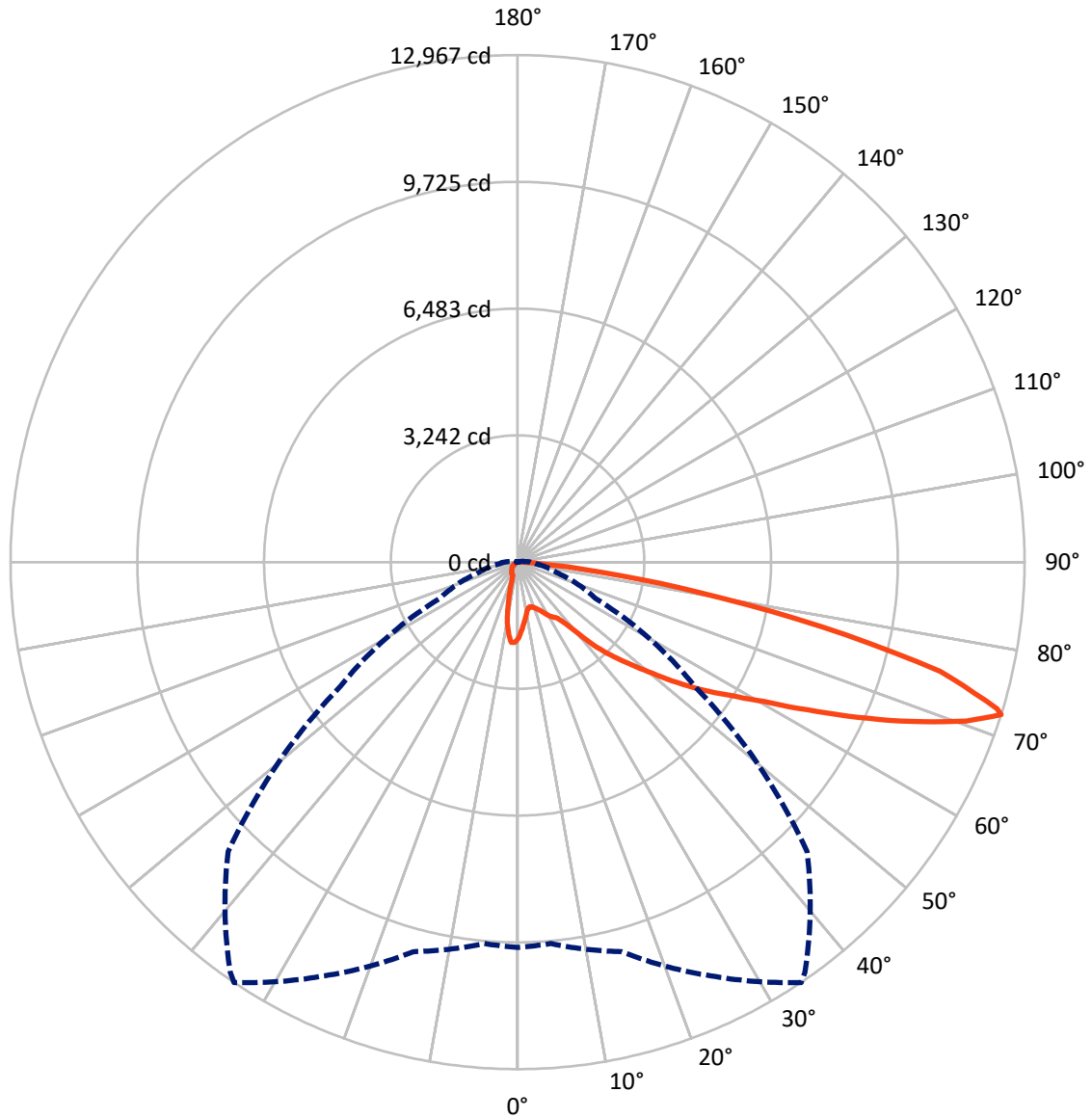
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1367.1	0.0	1367.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	11986.4	0.0	11986.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	13353.5	0.0	13353.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	1.3
10°-20°	384.0	2.9
20°-30°	579.5	4.3
30°-40°	940.5	7.0
40°-50°	1768.5	13.2
50°-60°	2891.6	21.7
60°-70°	3843.9	28.8
70°-80°	2574.2	19.3
80°-90°	201.7	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°	13353.5	100.0
0°-180°	13353.5	100.0



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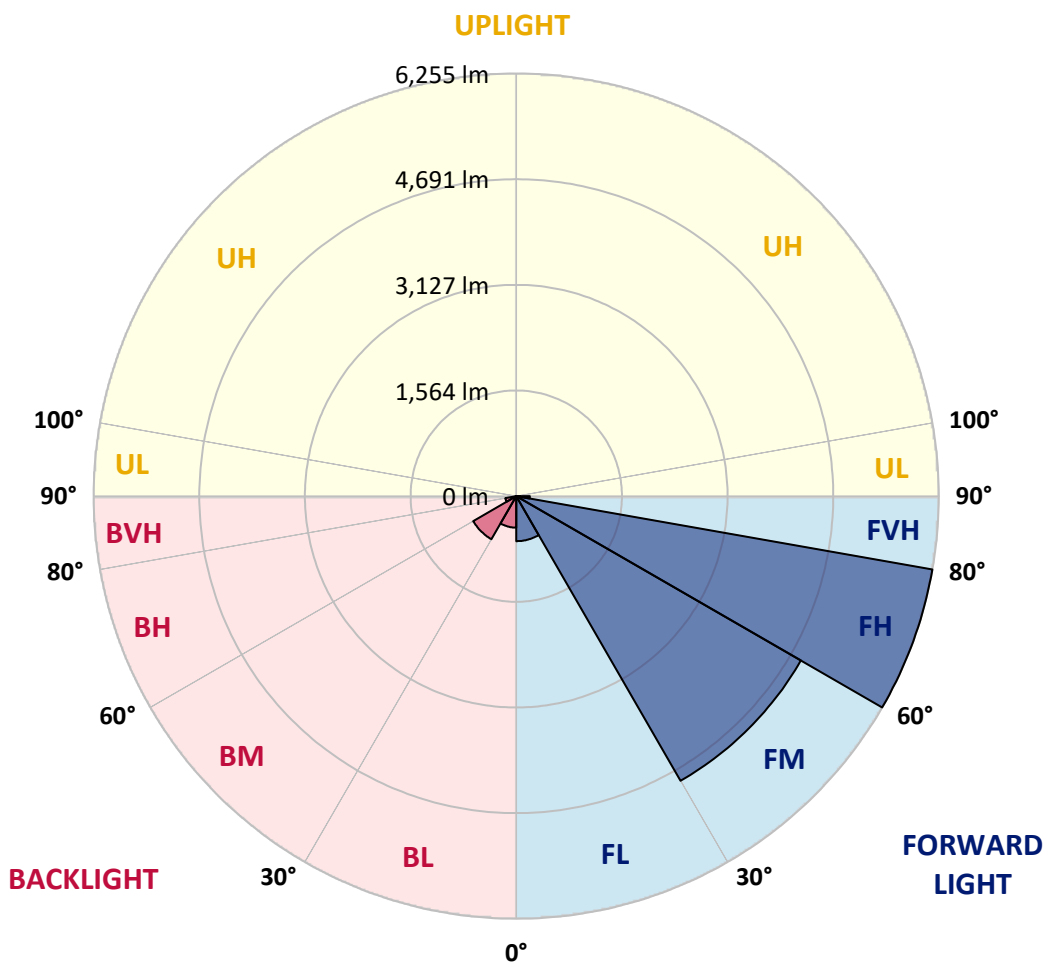
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.6	5.0			
FM (30°-60°)	4864.7	36.4			
FH (60°-80°)	6254.7	46.8			G3/7500
FVH (80°-90°)	200.5	1.5			G2/225
BL (0°-30°)	466.4	3.5	B1/500		
BM (30°-60°)	735.9	5.5	B1/1000		
BH (60°-80°)	163.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6
2.5°	1727.8	1723.9	1735.5	1754.8	1774.1	1766.4	1803.1	1841.7	1868.7	1905.4	1949.8
5°	1509.6	1519.3	1530.9	1569.5	1594.6	1600.4	1667.9	1718.1	1801.1	1886.1	1965.2
7.5°	1310.8	1322.4	1345.5	1388.0	1440.1	1453.6	1521.2	1621.6	1729.7	1841.7	1971.0
10°	1166.0	1177.6	1202.7	1229.7	1299.2	1299.2	1391.9	1530.9	1671.8	1803.1	1972.9
12.5°	1135.1	1140.9	1139.0	1160.2	1204.6	1214.3	1305.0	1457.5	1621.6	1789.5	2003.8
15°	1171.8	1175.7	1156.3	1144.8	1183.4	1193.0	1278.0	1413.1	1588.8	1797.3	2054.0
17.5°	1245.2	1231.6	1193.0	1175.7	1208.5	1214.3	1293.4	1411.2	1584.9	1818.5	2111.9
20°	1287.6	1303.1	1235.5	1202.7	1249.0	1256.7	1341.7	1442.1	1604.2	1855.2	2193.0
22.5°	1362.9	1370.6	1279.9	1258.7	1303.1	1303.1	1399.6	1503.8	1650.5	1915.0	2289.5
25°	1469.1	1459.4	1353.3	1332.0	1374.5	1391.9	1488.4	1602.3	1722.0	1971.0	2378.3
27.5°	1552.1	1557.9	1471.0	1415.0	1486.5	1498.0	1602.3	1708.5	1776.0	2017.3	2486.4
30°	1675.6	1664.1	1571.4	1507.7	1596.5	1598.4	1698.8	1808.8	1880.3	2100.3	2648.6
32.5°	1822.4	1799.2	1693.0	1602.3	1673.7	1691.1	1793.4	1953.6	2042.4	2256.7	2899.6
35°	2133.2	2077.2	1903.4	1762.5	1768.3	1776.0	1934.3	2164.1	2266.4	2455.6	3235.5
37.5°	2586.8	2563.7	2366.8	2098.4	1996.1	1972.9	2150.5	2442.0	2569.4	2718.1	3671.7
40°	3036.6	3003.8	2820.4	2617.7	2432.4	2386.1	2474.9	2810.8	2926.6	3083.0	4119.6
42.5°	3536.6	3478.7	3262.5	3098.4	2982.6	2932.4	2897.6	3274.1	3405.3	3511.5	4557.8
45°	4042.4	3947.8	3635.1	3509.6	3447.8	3420.8	3416.9	3857.1	3936.2	3957.5	5044.3
47.5°	4486.4	4384.1	4100.3	3959.4	3913.1	3905.3	4121.5	4528.9	4467.1	4411.1	5586.8
50°	4828.1	4762.5	4557.8	4507.6	4472.9	4459.4	4965.2	5220.0	4934.3	4835.8	6063.6
52.5°	5357.0	5210.3	4978.7	4996.0	5117.7	5119.6	5820.4	5876.3	5322.3	5127.3	6513.4
55°	5779.8	5683.3	5494.1	5469.0	5789.5	5824.2	6586.7	6374.4	5538.5	5405.3	6679.4
57.5°	6277.9	6233.5	6096.4	6100.3	6436.2	6509.5	7268.2	6795.2	5718.0	5584.8	6704.5
60°	6997.9	6870.5	6799.1	6831.9	7227.7	7299.1	7928.4	7098.3	5804.9	5702.6	6642.7
62.5°	7793.3	7644.6	7567.4	7735.4	8312.6	8324.2	8430.3	7366.7	5750.9	5733.5	6245.1
65°	8750.8	8604.1	8542.3	8880.1	9565.5	9523.0	9135.0	7480.6	5579.0	5422.7	5200.7
67.5°	9704.5	9615.6	9488.2	10026.8	10880.1	10880.1	9866.6	7438.1	5129.2	4353.2	3401.5
70°	10156.2	10218.0	10420.7	11266.2	12171.6	12078.9	10588.6	6949.7	3818.5	2337.8	1337.8
72°	9855.0	9791.3	10314.5	11671.6	12966.9	12814.4	10467.0	5525.0	2206.5	1025.1	465.2
72.5°	9337.7	9397.5	10117.6	11615.6	12818.3	12943.8	10169.7	5096.4	1814.6	816.6	351.3
75°	5725.8	5828.1	7552.0	9862.7	11169.7	11028.7	7866.6	2428.5	696.9	347.5	125.5
77.5°	2090.7	2175.6	3664.0	6206.4	7943.9	7855.1	4552.0	862.9	378.4	258.7	63.7
80°	544.4	588.8	1245.2	2862.9	4671.7	4677.5	1905.4	345.6	256.8	212.4	38.6
82.5°	108.1	119.7	382.2	1113.9	2183.4	2154.4	602.3	185.3	193.0	173.7	27.0
85°	13.5	17.4	81.1	378.4	706.6	633.2	148.6	92.7	142.9	135.1	17.4
87.5°	1.9	1.9	19.3	86.9	148.6	144.8	30.9	29.0	63.7	83.0	9.7
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°	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6
2.5°	1974.9	1982.6	2009.6	2032.8	2059.8	2067.5	2055.9	2075.3	2048.2	2063.7	2067.5
5°	1978.7	2023.1	2073.3	2106.1	2098.4	2079.1	2063.7	2011.5	1974.9	1961.4	1990.3
7.5°	2005.8	2055.9	2110.0	2110.0	2067.5	1967.1	1870.6	1778.0	1700.7	1662.1	1694.9
10°	2040.5	2092.6	2148.6	2075.3	1917.0	1733.6	1596.5	1422.8	1305.0	1243.2	1249.0
12.5°	2086.8	2160.2	2179.5	2009.6	1747.1	1474.9	1225.8	984.5	872.6	783.8	785.7
15°	2146.7	2218.1	2160.2	1866.8	1530.9	1129.3	830.1	600.4	511.6	465.2	465.2
17.5°	2225.8	2279.9	2154.4	1735.5	1239.4	772.2	509.6	405.4	386.1	378.4	378.4
20°	2318.5	2359.0	2098.4	1530.9	920.8	496.1	374.5	362.9	364.9	361.0	361.0
22.5°	2422.7	2436.2	2034.7	1293.4	623.5	366.8	349.4	351.3	353.3	349.4	351.3
25°	2532.8	2496.1	1942.0	1015.4	415.1	334.0	337.8	341.7	343.6	345.6	345.6
27.5°	2656.3	2583.0	1812.7	743.2	324.3	314.7	326.2	337.8	339.8	339.8	337.8
30°	2837.8	2716.2	1687.2	503.9	285.7	293.4	312.7	326.2	335.9	335.9	334.0
32.5°	3067.5	2855.2	1511.6	343.6	264.5	268.3	283.8	310.8	332.0	334.0	328.2
35°	3386.0	3023.1	1328.2	274.1	249.0	251.0	260.6	281.8	318.5	330.1	328.2
37.5°	3721.9	3214.2	1100.4	247.1	237.4	235.5	241.3	258.7	291.5	320.5	322.4
40°	4079.1	3415.0	861.0	233.6	227.8	223.9	225.9	233.6	258.7	295.4	303.1
42.5°	4415.0	3596.5	646.7	220.1	218.1	214.3	214.3	216.2	229.7	254.8	258.7
45°	4777.9	3745.1	492.3	210.4	204.6	206.6	198.8	195.0	204.6	206.6	204.6
47.5°	5117.7	3893.7	393.8	198.8	193.0	193.0	183.4	175.7	175.7	158.3	156.4
50°	5436.2	3974.8	314.7	183.4	181.5	179.5	166.0	152.5	140.9	119.7	115.8
52.5°	5700.7	3971.0	243.2	164.1	169.9	164.1	142.9	123.5	106.2	86.9	83.0
55°	5779.8	3785.6	183.4	135.1	144.8	137.1	113.9	96.5	77.2	61.8	59.8
57.5°	5712.2	3503.8	139.0	104.2	112.0	104.2	86.9	71.4	54.1	42.5	38.6
60°	5486.4	3173.7	108.1	81.1	84.9	79.1	65.6	54.1	38.6	27.0	23.2
62.5°	5057.8	2760.6	83.0	63.7	61.8	61.8	50.2	40.5	27.0	15.4	13.5
65°	4150.5	2152.5	63.7	44.4	44.4	44.4	38.6	29.0	17.4	7.7	3.9
67.5°	2606.1	1252.9	52.1	34.7	32.8	32.8	27.0	19.3	9.7	1.9	0.0
70°	980.7	459.5	40.5	27.0	25.1	25.1	19.3	11.6	5.8	0.0	0.0
72°	337.8	175.7	32.8	19.3	19.3	17.4	13.5	9.7	3.9	0.0	0.0
72.5°	278.0	140.9	30.9	19.3	17.4	17.4	13.5	9.7	3.9	0.0	0.0
75°	100.4	57.9	21.2	13.5	11.6	11.6	9.7	5.8	1.9	0.0	0.0
77.5°	50.2	36.7	17.4	11.6	9.7	5.8	5.8	3.9	1.9	0.0	0.0
80°	30.9	23.2	9.7	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	21.2	13.5	5.8	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.5	5.8	3.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	3.9	1.9	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)