

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: P483365

Luminaire Tested: **IFLD-M-SA4C-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483365  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

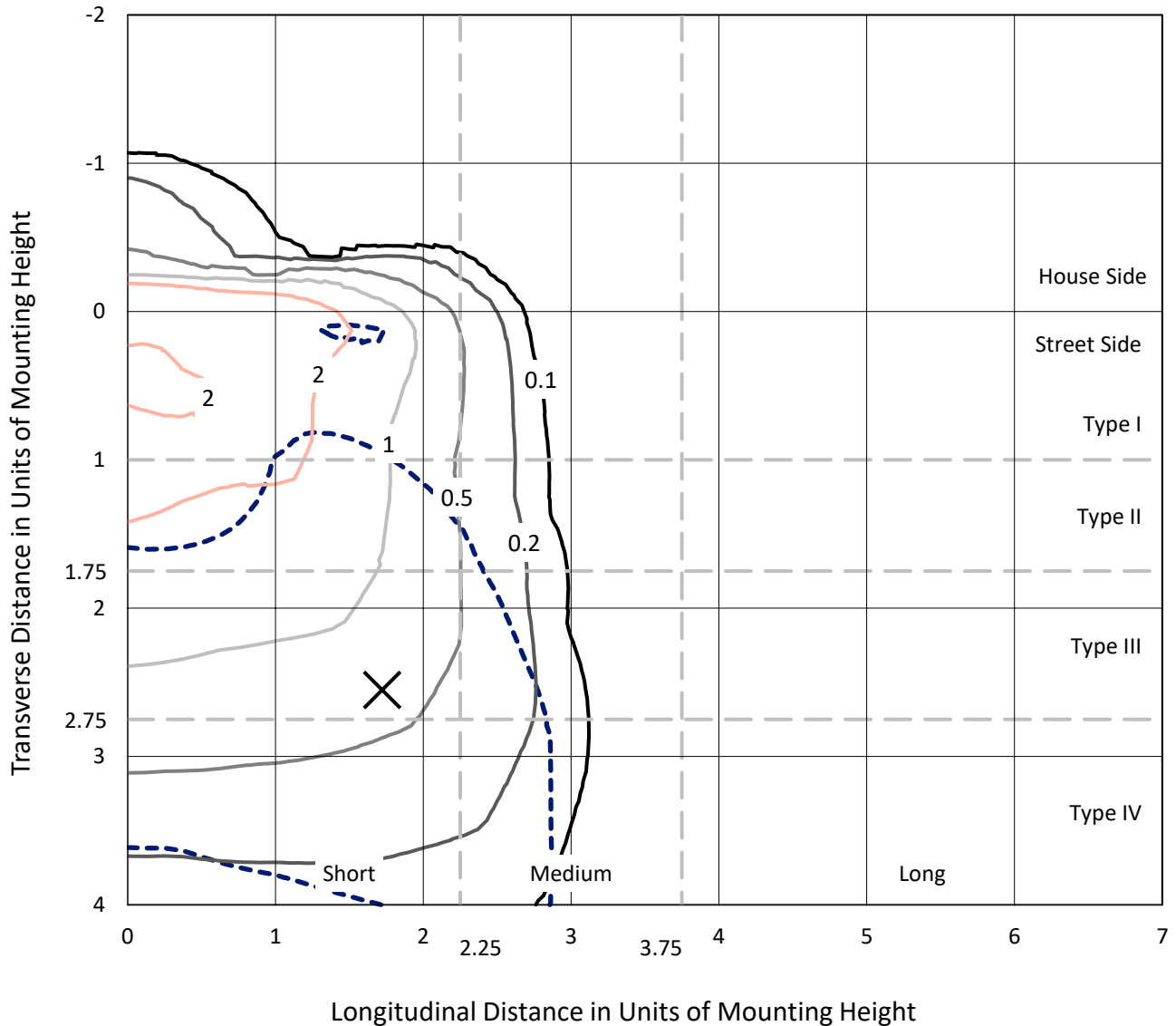
Lumens per Lamp: N/A  
Luminaire Lumens: 15112.6 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1  
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

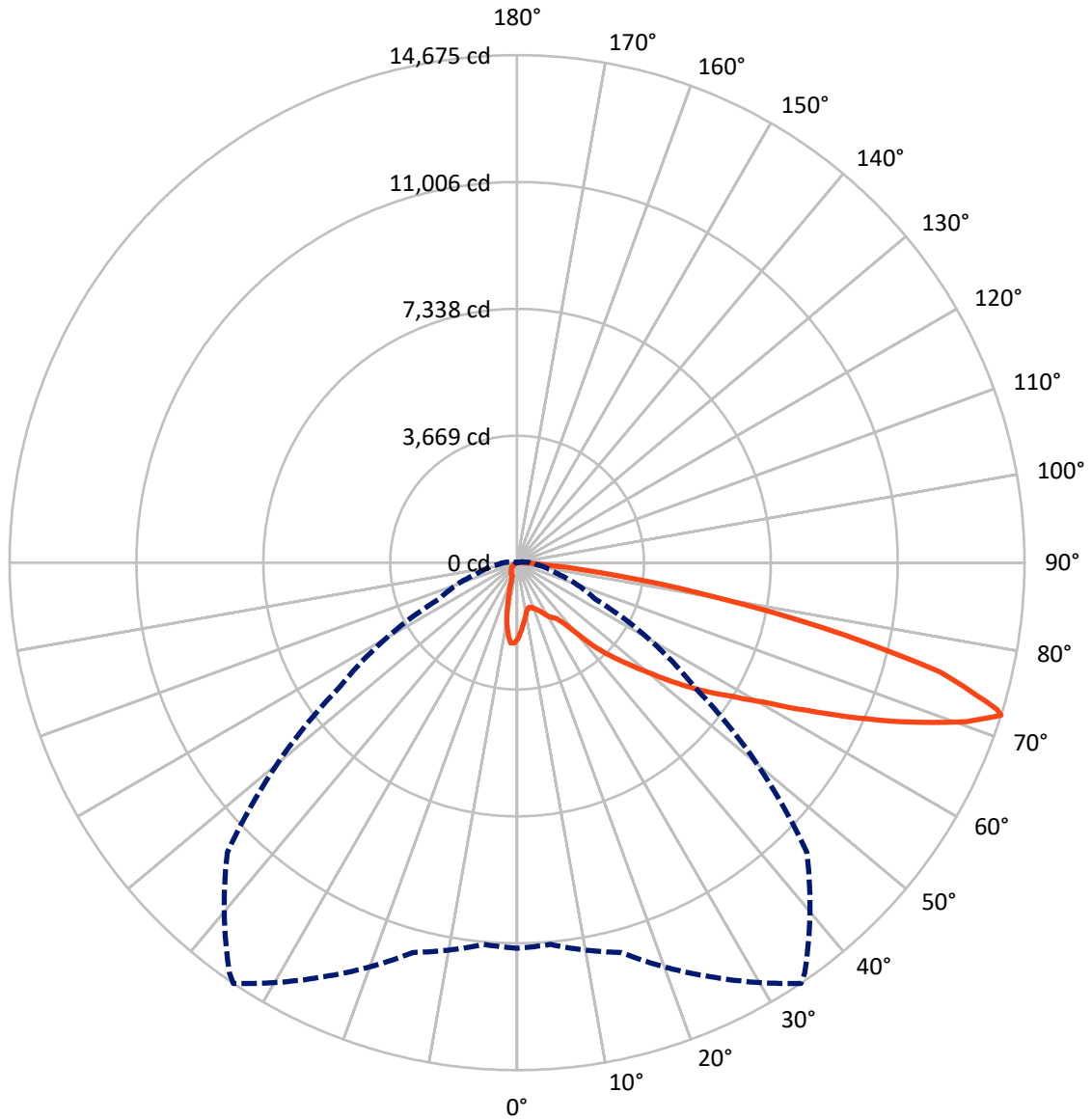
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1547.2	0.0	1547.2
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	13565.4	0.0	13565.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	15112.6	0.0	15112.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	1.3
10°-20°	434.5	2.9
20°-30°	655.9	4.3
30°-40°	1064.4	7.0
40°-50°	2001.5	13.2
50°-60°	3272.5	21.7
60°-70°	4350.3	28.8
70°-80°	2913.4	19.3
80°-90°	228.3	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°	15112.6	100.0
0°-180°	15112.6	100.0

**Coefficient of Utilization**



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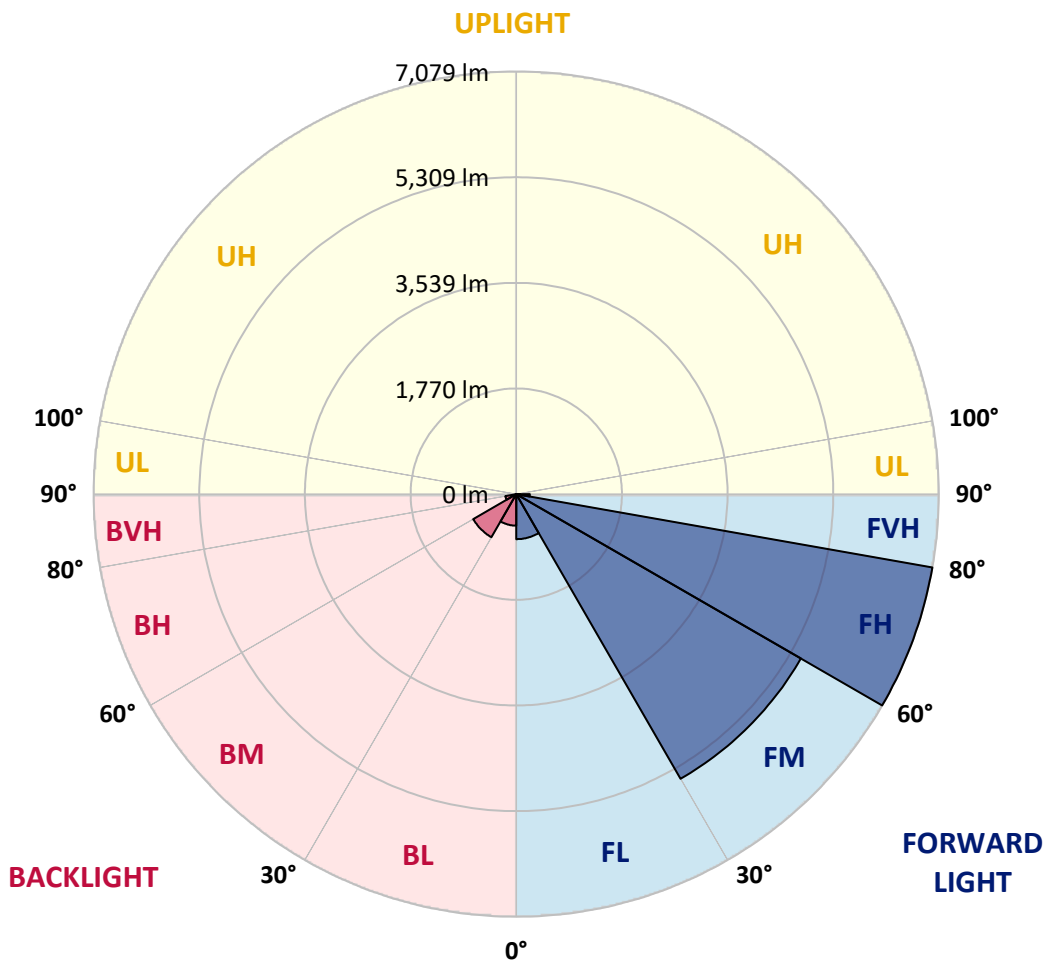
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.5	5.0			
FM (30°-60°)	5505.5	36.4			
FH (60°-80°)	7078.6	46.8			G3/7500
FVH (80°-90°)	226.9	1.5			G3/500
BL (0°-30°)	527.9	3.5	B2/1000		
BM (30°-60°)	832.8	5.5	B1/1000		
BH (60°-80°)	185.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	1955.4	1951.0	1964.1	1986.0	2007.8	1999.1	2040.6	2084.3	2114.9	2156.4	2206.6
5°	1708.5	1719.4	1732.5	1776.2	1804.6	1811.2	1887.6	1944.4	2038.4	2134.5	2224.1
7.5°	1483.5	1496.6	1522.8	1570.9	1629.8	1645.1	1721.6	1835.2	1957.6	2084.3	2230.7
10°	1319.6	1332.7	1361.1	1391.7	1470.4	1470.4	1575.2	1732.5	1892.0	2040.6	2232.8
12.5°	1284.6	1291.2	1289.0	1313.0	1363.3	1374.2	1476.9	1649.5	1835.2	2025.3	2267.8
15°	1326.2	1330.5	1308.7	1295.6	1339.3	1350.2	1446.3	1599.3	1798.1	2034.0	2324.6
17.5°	1409.2	1393.9	1350.2	1330.5	1367.7	1374.2	1463.8	1597.1	1793.7	2058.1	2390.1
20°	1457.2	1474.7	1398.3	1361.1	1413.5	1422.3	1518.4	1632.0	1815.5	2099.6	2481.9
22.5°	1542.4	1551.2	1448.5	1424.5	1474.7	1474.7	1584.0	1701.9	1868.0	2167.3	2591.1
25°	1662.6	1651.7	1531.5	1507.5	1555.6	1575.2	1684.5	1813.4	1948.8	2230.7	2691.6
27.5°	1756.6	1763.1	1664.8	1601.4	1682.3	1695.4	1813.4	1933.5	2010.0	2283.1	2814.0
30°	1896.4	1883.3	1778.4	1706.3	1806.8	1809.0	1922.6	2047.1	2128.0	2377.0	2997.5
32.5°	2062.4	2036.2	1916.0	1813.4	1894.2	1913.9	2029.7	2211.0	2311.5	2554.0	3281.5
35°	2414.2	2350.8	2154.2	1994.7	2001.3	2010.0	2189.1	2449.1	2564.9	2779.0	3661.7
37.5°	2927.6	2901.4	2678.5	2374.8	2259.1	2232.8	2433.8	2763.7	2907.9	3076.2	4155.4
40°	3436.6	3399.5	3192.0	2962.6	2752.8	2700.4	2800.9	3181.0	3312.1	3489.1	4662.3
42.5°	4002.5	3937.0	3692.3	3506.6	3375.5	3318.7	3279.3	3705.4	3853.9	3974.1	5158.2
45°	4574.9	4467.9	4113.9	3971.9	3902.0	3871.4	3867.0	4365.2	4454.7	4478.8	5708.8
47.5°	5077.4	4961.6	4640.5	4481.0	4428.5	4419.8	4664.5	5125.5	5055.6	4992.2	6322.7
50°	5464.1	5389.8	5158.2	5101.4	5062.1	5046.8	5619.2	5907.6	5584.3	5472.9	6862.4
52.5°	6062.7	5896.7	5634.5	5654.2	5791.8	5794.0	6587.1	6650.4	6023.4	5802.8	7371.4
55°	6541.2	6432.0	6217.9	6189.5	6552.1	6591.5	7454.4	7214.1	6268.1	6117.4	7559.3
57.5°	7104.9	7054.6	6899.5	6903.9	7284.0	7367.1	8225.7	7690.4	6471.3	6320.5	7587.7
60°	7919.8	7775.6	7694.8	7731.9	8179.8	8260.6	8972.9	8033.4	6569.6	6453.8	7517.8
62.5°	8819.9	8651.7	8564.3	8754.4	9407.6	9420.7	9540.9	8337.1	6508.4	6488.8	7067.7
65°	9903.6	9737.5	9667.6	10049.9	10825.5	10777.5	10338.3	8466.0	6314.0	6137.0	5885.8
67.5°	10982.8	10882.3	10738.2	11347.7	12313.4	12313.4	11166.4	8417.9	5804.9	4926.7	3849.6
70°	11494.1	11564.0	11793.4	12750.3	13775.0	13670.1	11983.5	7865.2	4321.5	2645.8	1514.0
72°	11153.3	11081.2	11673.2	13209.1	14675.1	14502.5	11845.8	6252.8	2497.2	1160.1	526.5
72.5°	10567.7	10635.5	11450.4	13145.8	14506.9	14648.9	11509.4	5767.8	2053.7	924.2	397.6
75°	6480.0	6595.8	8546.8	11162.0	12641.1	12481.6	8902.9	2748.4	788.7	393.3	142.0
77.5°	2366.1	2462.2	4146.7	7024.0	8990.3	8889.8	5151.7	976.6	428.2	292.8	72.1
80°	616.1	666.4	1409.2	3240.0	5287.1	5293.7	2156.4	391.1	290.6	240.3	43.7
82.5°	122.3	135.5	432.6	1260.6	2471.0	2438.2	681.6	209.7	218.5	196.6	30.6
85°	15.3	19.7	91.8	428.2	799.6	716.6	168.2	104.9	161.7	152.9	19.7
87.5°	2.2	2.2	21.8	98.3	168.2	163.9	35.0	32.8	72.1	93.9	10.9
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°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	2235.0	2243.8	2274.3	2300.6	2331.2	2339.9	2326.8	2348.6	2318.0	2335.5	2339.9
5°	2239.4	2289.6	2346.4	2383.6	2374.8	2353.0	2335.5	2276.5	2235.0	2219.7	2252.5
7.5°	2270.0	2326.8	2388.0	2388.0	2339.9	2226.3	2117.0	2012.2	1924.8	1881.1	1918.2
10°	2309.3	2368.3	2431.7	2348.6	2169.5	1961.9	1806.8	1610.2	1476.9	1407.0	1413.5
12.5°	2361.7	2444.8	2466.6	2274.3	1977.2	1669.2	1387.3	1114.2	987.5	887.0	889.2
15°	2429.5	2510.3	2444.8	2112.7	1732.5	1278.1	939.5	679.5	579.0	526.5	526.5
17.5°	2519.0	2580.2	2438.2	1964.1	1402.6	873.9	576.8	458.8	437.0	428.2	428.2
20°	2623.9	2669.8	2374.8	1732.5	1042.1	561.5	423.8	410.7	412.9	408.6	408.6
22.5°	2741.9	2757.2	2302.7	1463.8	705.7	415.1	395.4	397.6	399.8	395.4	397.6
25°	2866.4	2824.9	2197.9	1149.2	469.7	378.0	382.3	386.7	388.9	391.1	391.1
27.5°	3006.2	2923.2	2051.5	841.1	367.0	356.1	369.2	382.3	384.5	384.5	382.3
30°	3211.6	3074.0	1909.5	570.2	323.3	332.1	353.9	369.2	380.2	380.2	378.0
32.5°	3471.6	3231.3	1710.7	388.9	299.3	303.7	321.2	351.7	375.8	378.0	371.4
35°	3832.1	3421.4	1503.1	310.2	281.8	284.0	294.9	319.0	360.5	373.6	371.4
37.5°	4212.2	3637.6	1245.3	279.7	268.7	266.5	273.1	292.8	329.9	362.7	364.9
40°	4616.4	3864.9	974.4	264.4	257.8	253.4	255.6	264.4	292.8	334.3	343.0
42.5°	4996.6	4070.2	731.9	249.1	246.9	242.5	242.5	244.7	260.0	288.4	292.8
45°	5407.3	4238.5	557.1	238.1	231.6	233.8	225.0	220.7	231.6	233.8	231.6
47.5°	5791.8	4406.7	445.7	225.0	218.5	218.5	207.6	198.8	198.8	179.2	177.0
50°	6152.3	4498.4	356.1	207.6	205.4	203.2	187.9	172.6	159.5	135.5	131.1
52.5°	6451.6	4494.1	275.3	185.7	192.3	185.7	161.7	139.8	120.2	98.3	93.9
55°	6541.2	4284.3	207.6	152.9	163.9	155.1	128.9	109.2	87.4	69.9	67.7
57.5°	6464.7	3965.4	157.3	118.0	126.7	118.0	98.3	80.8	61.2	48.1	43.7
60°	6209.1	3591.8	122.3	91.8	96.1	89.6	74.3	61.2	43.7	30.6	26.2
62.5°	5724.1	3124.2	93.9	72.1	69.9	69.9	56.8	45.9	30.6	17.5	15.3
65°	4697.3	2436.0	72.1	50.2	50.2	50.2	43.7	32.8	19.7	8.7	4.4
67.5°	2949.4	1417.9	59.0	39.3	37.1	37.1	30.6	21.8	10.9	2.2	0.0
70°	1109.9	520.0	45.9	30.6	28.4	28.4	21.8	13.1	6.6	0.0	0.0
72°	382.3	198.8	37.1	21.8	21.8	19.7	15.3	10.9	4.4	0.0	0.0
72.5°	314.6	159.5	35.0	21.8	19.7	19.7	15.3	10.9	4.4	0.0	0.0
75°	113.6	65.5	24.0	15.3	13.1	13.1	10.9	6.6	2.2	0.0	0.0
77.5°	56.8	41.5	19.7	13.1	10.9	6.6	6.6	4.4	2.2	0.0	0.0
80°	35.0	26.2	10.9	8.7	6.6	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	24.0	15.3	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.3	6.6	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.4	2.2	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)