

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: P483286

Luminaire Tested: **IFLD-M-SA4B-750-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483286  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

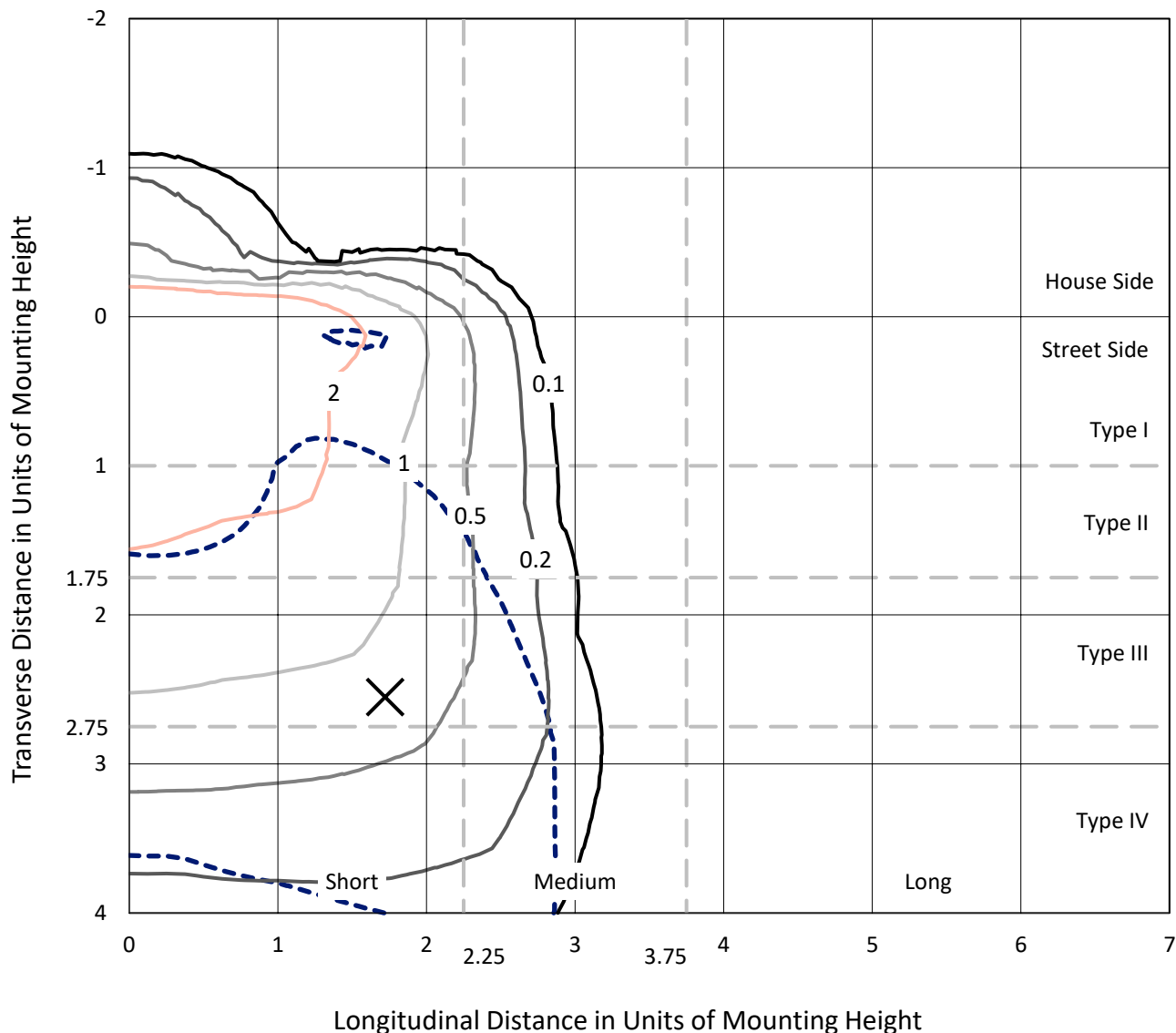
Lumens per Lamp: N/A  
Luminaire Lumens: 16893.1 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 166.1  
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

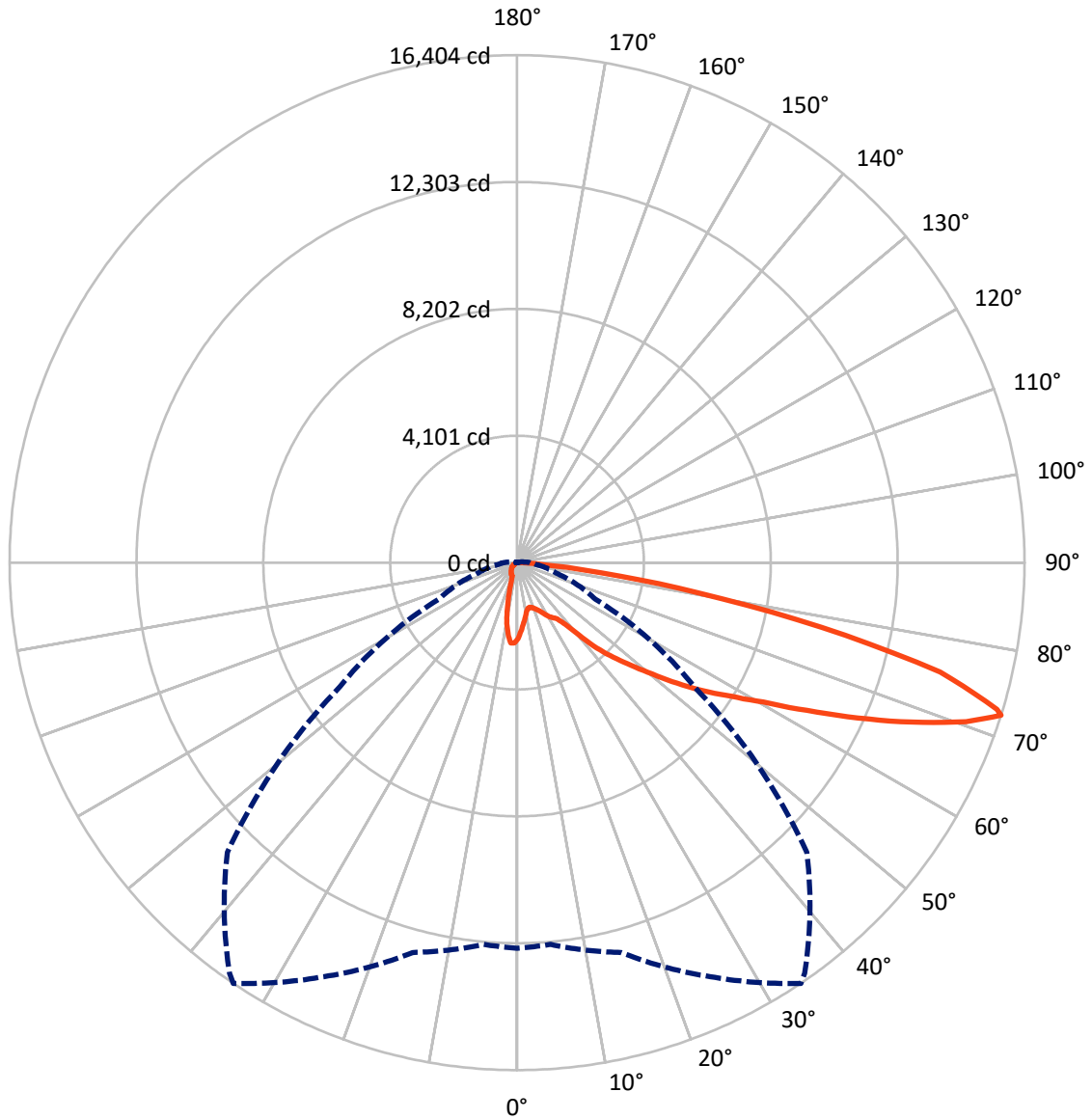
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1729.5	0.0	1729.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	15163.7	0.0	15163.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	16893.1	0.0	16893.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.5	1.3
10°-20°	485.7	2.9
20°-30°	733.2	4.3
30°-40°	1189.8	7.0
40°-50°	2237.3	13.2
50°-60°	3658.0	21.7
60°-70°	4862.8	28.8
70°-80°	3256.6	19.3
80°-90°	255.2	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°	16893.1	100.0
0°-180°	16893.1	100.0



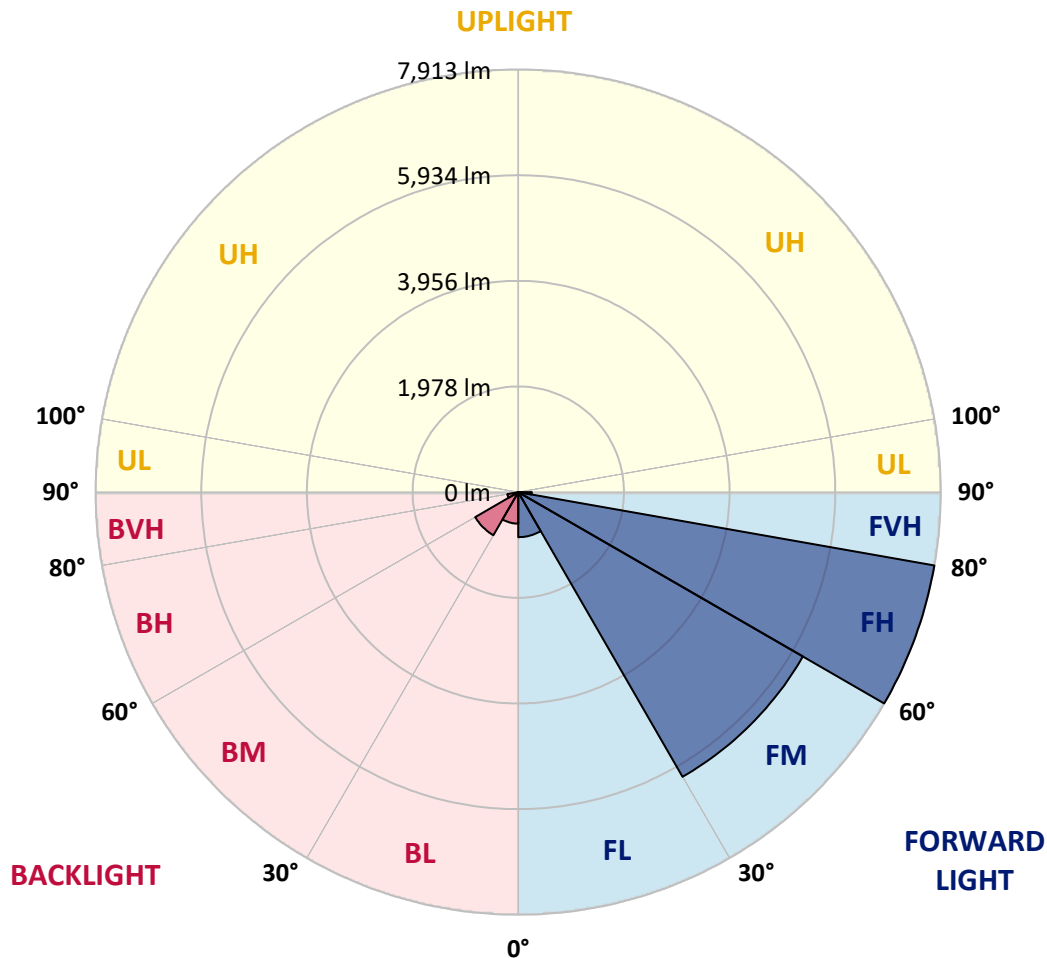
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.3	5.0			
FM (30°-60°)	6154.1	36.4			
FH (60°-80°)	7912.6	46.8			G4/12000
FVH (80°-90°)	253.6	1.5			G3/500
BL (0°-30°)	590.1	3.5	B2/1000		
BM (30°-60°)	930.9	5.5	B1/1000		
BH (60°-80°)	206.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5
2.5°	2185.7	2180.9	2195.5	2219.9	2244.4	2234.6	2281.0	2329.8	2364.0	2410.4	2466.6
5°	1909.8	1922.0	1936.6	1985.5	2017.2	2024.6	2110.0	2173.5	2278.5	2386.0	2486.1
7.5°	1658.2	1672.9	1702.2	1755.9	1821.9	1839.0	1924.4	2051.4	2188.2	2329.8	2493.5
10°	1475.1	1489.7	1521.5	1555.7	1643.6	1643.6	1760.8	1936.6	2114.9	2281.0	2495.9
12.5°	1436.0	1443.3	1440.9	1467.7	1523.9	1536.1	1650.9	1843.8	2051.4	2263.9	2535.0
15°	1482.4	1487.3	1462.9	1448.2	1497.0	1509.3	1616.7	1787.7	2009.9	2273.7	2598.5
17.5°	1575.2	1558.1	1509.3	1487.3	1528.8	1536.1	1636.3	1785.2	2005.0	2300.5	2671.7
20°	1628.9	1648.5	1563.0	1521.5	1580.1	1589.9	1697.3	1824.3	2029.4	2346.9	2774.3
22.5°	1724.2	1733.9	1619.2	1592.3	1648.5	1648.5	1770.6	1902.4	2088.1	2422.6	2896.4
25°	1858.5	1846.3	1712.0	1685.1	1738.8	1760.8	1882.9	2027.0	2178.4	2493.5	3008.8
27.5°	1963.5	1970.8	1860.9	1790.1	1880.5	1895.1	2027.0	2161.3	2246.8	2552.1	3145.5
30°	2119.8	2105.2	1987.9	1907.3	2019.7	2022.1	2149.1	2288.3	2378.7	2657.1	3350.7
32.5°	2305.4	2276.1	2141.8	2027.0	2117.4	2139.3	2268.8	2471.5	2583.8	2854.9	3668.1
35°	2698.6	2627.8	2408.0	2229.7	2237.0	2246.8	2447.1	2737.7	2867.1	3106.4	4093.1
37.5°	3272.5	3243.2	2994.1	2654.6	2525.2	2495.9	2720.6	3089.3	3250.5	3438.6	4645.0
40°	3841.5	3800.0	3568.0	3311.6	3077.1	3018.5	3130.9	3555.8	3702.3	3900.1	5211.6
42.5°	4474.1	4400.8	4127.3	3919.7	3773.2	3709.7	3665.7	4141.9	4308.0	4442.3	5766.0
45°	5113.9	4994.2	4598.6	4439.9	4361.7	4327.5	4322.6	4879.5	4979.6	5006.4	6381.4
47.5°	5675.6	5546.2	5187.2	5008.9	4950.3	4940.5	5214.0	5729.3	5651.2	5580.4	7067.6
50°	6107.9	6024.8	5766.0	5702.5	5658.5	5641.4	6281.3	6603.6	6242.2	6117.6	7670.9
52.5°	6777.0	6591.4	6298.4	6320.3	6474.2	6476.6	7363.1	7434.0	6733.1	6486.4	8239.9
55°	7311.9	7189.7	6950.4	6918.7	7324.1	7368.0	8332.7	8064.0	7006.6	6838.1	8449.9
57.5°	7941.9	7885.8	7712.4	7717.3	8142.2	8235.0	9194.8	8596.4	7233.7	7065.2	8481.7
60°	8852.9	8691.7	8601.3	8642.8	9143.5	9233.8	10030.0	8979.9	7343.6	7214.2	8403.5
62.5°	9859.0	9671.0	9573.3	9785.8	10516.0	10530.6	10665.0	9319.3	7275.2	7253.2	7900.4
65°	11070.4	10884.7	10806.6	11234.0	12100.9	12047.2	11556.3	9463.4	7057.9	6860.1	6579.2
67.5°	12276.8	12164.4	12003.3	12684.6	13764.1	13764.1	12481.9	9409.7	6488.8	5507.1	4303.1
70°	12848.3	12926.4	13182.8	14252.5	15397.9	15280.7	13395.3	8791.8	4830.6	2957.5	1692.4
72°	12467.3	12386.7	13048.5	14765.4	16404.1	16211.1	13241.4	6989.5	2791.4	1296.8	588.6
72.5°	11812.8	11888.5	12799.4	14694.5	16216.0	16374.7	12865.3	6447.3	2295.6	1033.0	444.5
75°	7243.5	7372.9	9553.8	12477.0	14130.4	13952.1	9951.8	3072.2	881.6	439.6	158.7
77.5°	2644.9	2752.3	4635.2	7851.6	10049.5	9937.2	5758.6	1091.6	478.7	327.3	80.6
80°	688.7	744.9	1575.2	3621.7	5910.1	5917.4	2410.4	437.1	324.8	268.6	48.8
82.5°	136.8	151.4	483.5	1409.1	2762.1	2725.5	762.0	234.4	244.2	219.8	34.2
85°	17.1	22.0	102.6	478.7	893.8	801.0	188.0	117.2	180.7	171.0	22.0
87.5°	2.4	2.4	24.4	109.9	188.0	183.2	39.1	36.6	80.6	105.0	12.2
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°	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5
2.5°	2498.3	2508.1	2542.3	2571.6	2605.8	2615.6	2600.9	2625.3	2591.1	2610.7	2615.6
5°	2503.2	2559.4	2622.9	2664.4	2654.6	2630.2	2610.7	2544.7	2498.3	2481.2	2517.9
7.5°	2537.4	2600.9	2669.3	2669.3	2615.6	2488.6	2366.5	2249.2	2151.6	2102.7	2144.2
10°	2581.4	2647.3	2718.1	2625.3	2425.1	2193.1	2019.7	1799.9	1650.9	1572.8	1580.1
12.5°	2640.0	2732.8	2757.2	2542.3	2210.2	1865.8	1550.8	1245.5	1103.9	991.5	994.0
15°	2715.7	2806.1	2732.8	2361.6	1936.6	1428.7	1050.1	759.5	647.2	588.6	588.6
17.5°	2815.8	2884.2	2725.5	2195.5	1567.9	976.9	644.7	512.9	488.4	478.7	478.7
20°	2933.0	2984.3	2654.6	1936.6	1164.9	627.6	473.8	459.1	461.6	456.7	456.7
22.5°	3064.9	3082.0	2574.0	1636.3	788.8	464.0	442.0	444.5	446.9	442.0	444.5
25°	3204.1	3157.7	2456.8	1284.6	525.1	422.5	427.4	432.3	434.7	437.1	437.1
27.5°	3360.4	3267.6	2293.2	940.2	410.3	398.1	412.7	427.4	429.8	429.8	427.4
30°	3590.0	3436.1	2134.5	637.4	361.4	371.2	395.6	412.7	424.9	424.9	422.5
32.5°	3880.6	3612.0	1912.2	434.7	334.6	339.5	359.0	393.2	420.1	422.5	415.2
35°	4283.6	3824.4	1680.2	346.8	315.0	317.5	329.7	356.6	403.0	417.6	415.2
37.5°	4708.5	4066.2	1392.0	312.6	300.4	297.9	305.3	327.3	368.8	405.4	407.8
40°	5160.3	4320.2	1089.2	295.5	288.2	283.3	285.7	295.5	327.3	373.7	383.4
42.5°	5585.2	4549.8	818.1	278.4	276.0	271.1	271.1	273.5	290.6	322.4	327.3
45°	6044.4	4737.8	622.8	266.2	258.9	261.3	251.5	246.7	258.9	261.3	258.9
47.5°	6474.2	4925.9	498.2	251.5	244.2	244.2	232.0	222.2	222.2	200.3	197.8
50°	6877.1	5028.4	398.1	232.0	229.6	227.1	210.0	192.9	178.3	151.4	146.5
52.5°	7211.7	5023.5	307.7	207.6	214.9	207.6	180.7	156.3	134.3	109.9	105.0
55°	7311.9	4789.1	232.0	171.0	183.2	173.4	144.1	122.1	97.7	78.1	75.7
57.5°	7226.4	4432.5	175.8	131.9	141.6	131.9	109.9	90.4	68.4	53.7	48.8
60°	6940.6	4014.9	136.8	102.6	107.5	100.1	83.0	68.4	48.8	34.2	29.3
62.5°	6398.5	3492.3	105.0	80.6	78.1	78.1	63.5	51.3	34.2	19.5	17.1
65°	5250.7	2723.0	80.6	56.2	56.2	56.2	48.8	36.6	22.0	9.8	4.9
67.5°	3296.9	1585.0	65.9	44.0	41.5	41.5	34.2	24.4	12.2	2.4	0.0
70°	1240.6	581.2	51.3	34.2	31.7	31.7	24.4	14.7	7.3	0.0	0.0
72°	427.4	222.2	41.5	24.4	24.4	22.0	17.1	12.2	4.9	0.0	0.0
72.5°	351.7	178.3	39.1	24.4	22.0	22.0	17.1	12.2	4.9	0.0	0.0
75°	127.0	73.3	26.9	17.1	14.7	14.7	12.2	7.3	2.4	0.0	0.0
77.5°	63.5	46.4	22.0	14.7	12.2	7.3	7.3	4.9	2.4	0.0	0.0
80°	39.1	29.3	12.2	9.8	7.3	4.9	2.4	2.4	0.0	0.0	0.0
82.5°	26.9	17.1	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	4.9	2.4	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)