

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: P483398

Luminaire Tested: **IFLD-S-SA6B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483398  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

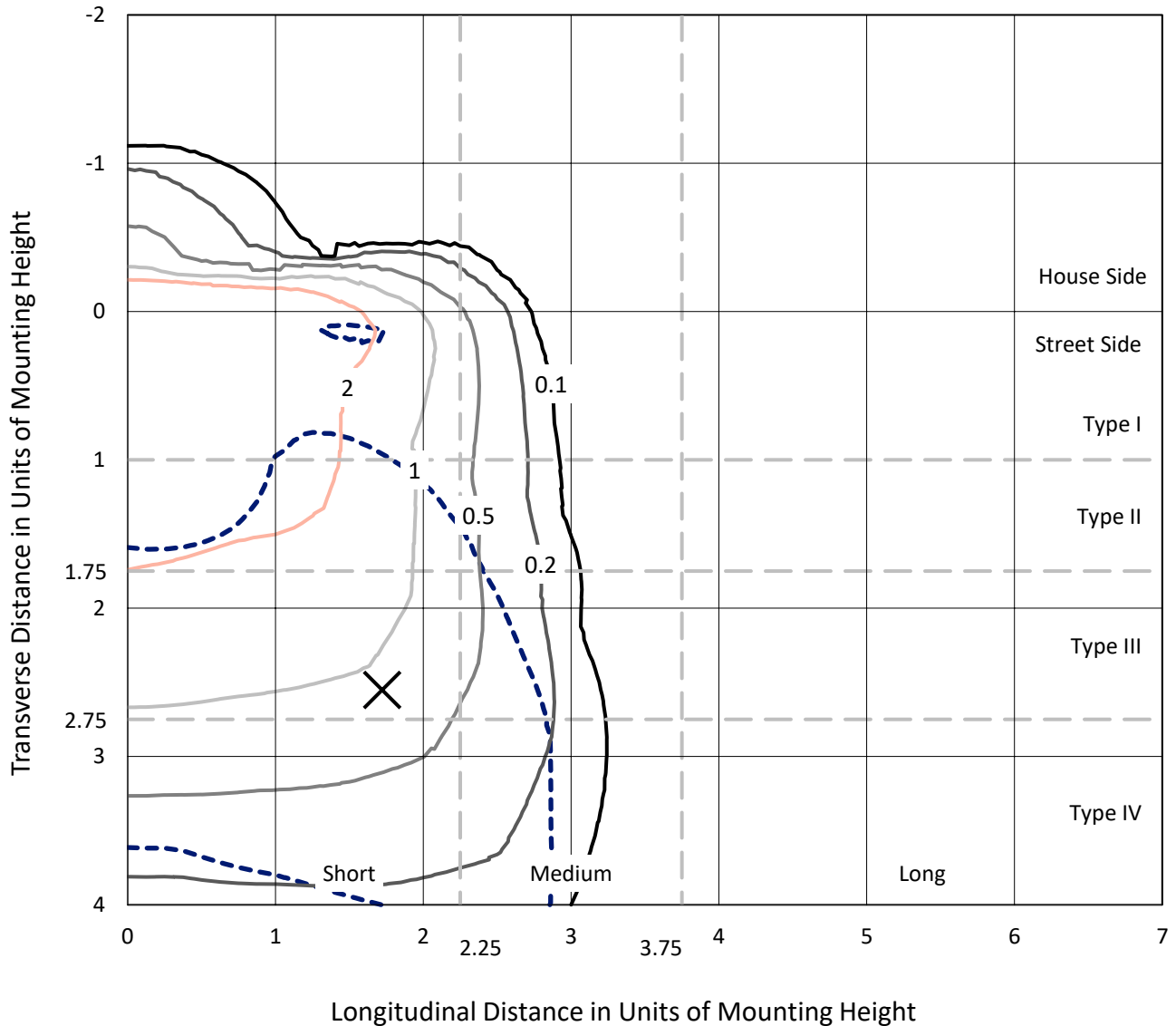
Lumens per Lamp: N/A  
Luminaire Lumens: 19178.8 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9  
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

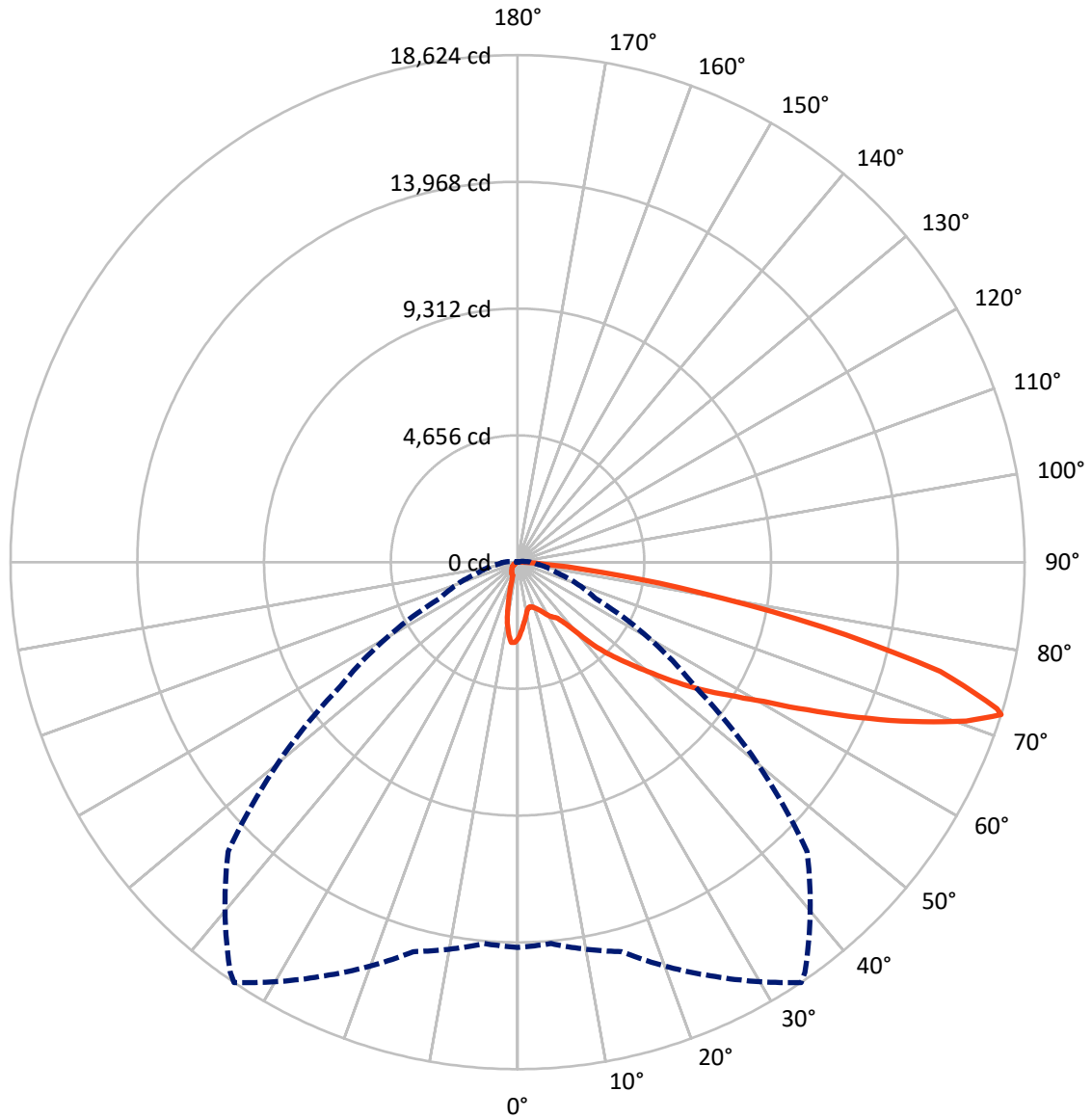
× Max cd  
 - - - 1/2 Max cd



Based on 25 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	1963.5	0.0	1963.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	17215.4	0.0	17215.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	19178.8	0.0	19178.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.6	1.3
10°-20°	551.4	2.9
20°-30°	832.3	4.3
30°-40°	1350.8	7.0
40°-50°	2540.0	13.2
50°-60°	4153.0	21.7
60°-70°	5520.8	28.8
70°-80°	3697.2	19.3
80°-90°	289.7	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°	19178.8	100.0
0°-180°	19178.8	100.0

**Coefficient of Utilization**



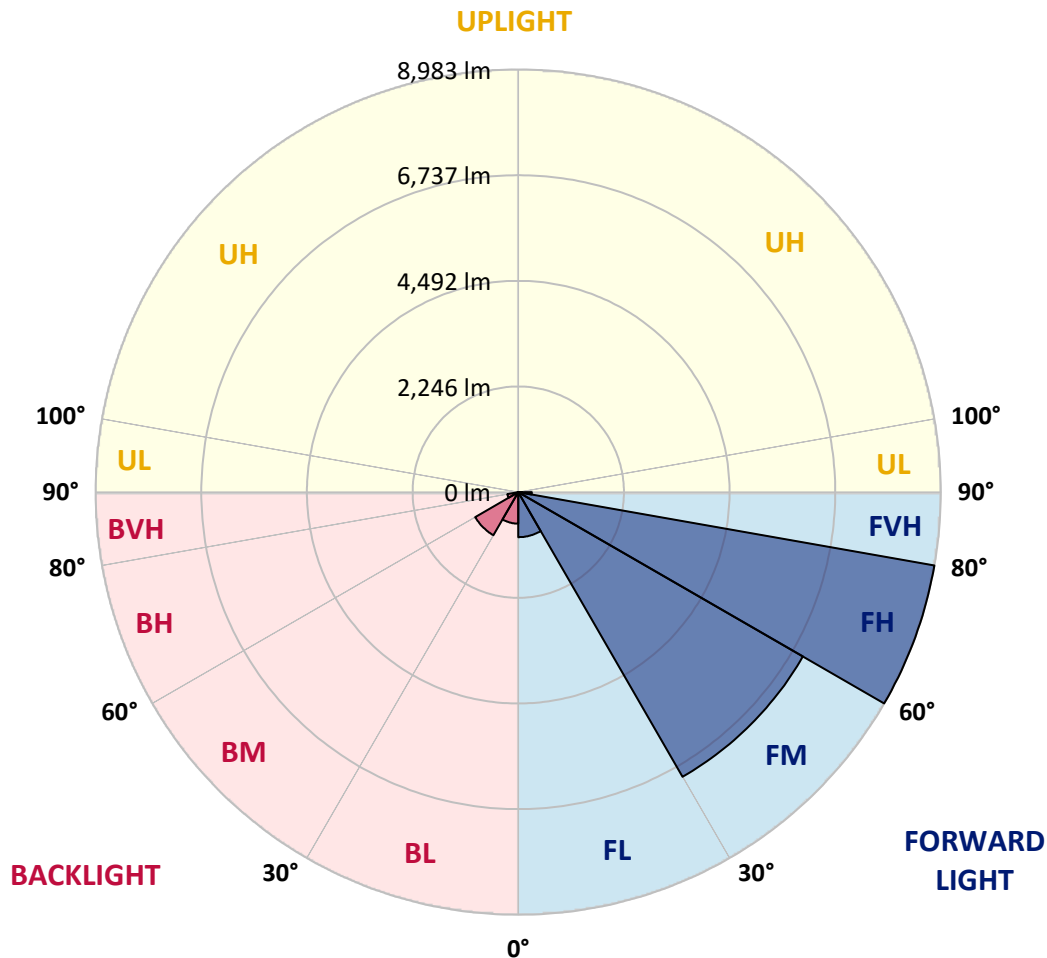
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.4	5.0			
FM (30°-60°)	6986.8	36.4			
FH (60°-80°)	8983.2	46.8			G4/12000
FVH (80°-90°)	287.9	1.5			G3/500
BL (0°-30°)	669.9	3.5	B2/1000		
BM (30°-60°)	1056.9	5.5	B2/2500		
BH (60°-80°)	234.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9
2.5°	2481.5	2475.9	2492.6	2520.3	2548.0	2536.9	2589.6	2645.1	2683.9	2736.6	2800.3
5°	2168.2	2182.0	2198.7	2254.1	2290.2	2298.5	2395.5	2467.6	2586.8	2708.8	2822.5
7.5°	1882.6	1899.2	1932.5	1993.5	2068.4	2087.8	2184.8	2329.0	2484.3	2645.1	2830.8
10°	1674.7	1691.3	1727.3	1766.1	1866.0	1866.0	1999.0	2198.7	2401.1	2589.6	2833.6
12.5°	1630.3	1638.6	1635.8	1666.3	1730.1	1744.0	1874.3	2093.3	2329.0	2570.2	2878.0
15°	1683.0	1688.5	1660.8	1644.2	1699.6	1713.5	1835.5	2029.5	2281.9	2581.3	2950.0
17.5°	1788.3	1768.9	1713.5	1688.5	1735.6	1744.0	1857.6	2026.8	2276.3	2611.8	3033.2
20°	1849.3	1871.5	1774.5	1727.3	1793.9	1805.0	1927.0	2071.1	2304.0	2664.5	3149.7
22.5°	1957.5	1968.5	1838.2	1807.7	1871.5	1871.5	2010.1	2159.9	2370.6	2750.4	3288.3
25°	2110.0	2096.1	1943.6	1913.1	1974.1	1999.0	2137.7	2301.3	2473.2	2830.8	3415.8
27.5°	2229.2	2237.5	2112.7	2032.3	2134.9	2151.5	2301.3	2453.8	2550.8	2897.4	3571.1
30°	2406.6	2390.0	2256.9	2165.4	2292.9	2295.7	2439.9	2597.9	2700.5	3016.6	3804.0
32.5°	2617.3	2584.1	2431.6	2301.3	2403.8	2428.8	2575.7	2805.9	2933.4	3241.2	4164.5
35°	3063.7	2983.3	2733.8	2531.4	2539.7	2550.8	2778.1	3108.1	3255.0	3526.8	4646.9
37.5°	3715.3	3682.0	3399.2	3013.8	2866.9	2833.6	3088.7	3507.3	3690.3	3903.8	5273.5
40°	4361.3	4314.2	4050.8	3759.7	3493.5	3426.9	3554.5	4036.9	4203.3	4427.8	5916.7
42.5°	5079.4	4996.2	4685.7	4450.0	4283.7	4211.6	4161.7	4702.3	4890.9	5043.4	6546.1
45°	5805.8	5670.0	5220.8	5040.6	4951.9	4913.1	4907.5	5539.7	5653.3	5683.8	7244.8
47.5°	6443.5	6296.6	5889.0	5686.6	5620.1	5609.0	5919.5	6504.5	6415.8	6335.4	8023.9
50°	6934.3	6840.0	6546.1	6474.0	6424.1	6404.7	7131.1	7497.1	7086.8	6945.4	8708.7
52.5°	7694.0	7483.3	7150.5	7175.5	7350.2	7352.9	8359.4	8439.8	7644.1	7364.0	9354.8
55°	8301.2	8162.5	7890.8	7854.8	8315.0	8364.9	9460.1	9155.1	7954.6	7763.3	9593.2
57.5°	9016.5	8952.7	8755.9	8761.4	9243.9	9349.2	10438.9	9759.6	8212.5	8021.1	9629.3
60°	10050.7	9867.7	9765.1	9812.2	10380.6	10483.2	11387.1	10194.9	8337.2	8190.3	9540.5
62.5°	11193.0	10979.5	10868.6	11109.8	11938.8	11955.5	12108.0	10580.3	8259.6	8234.6	8969.4
65°	12568.2	12357.5	12268.8	12754.0	13738.2	13677.3	13120.0	10743.8	8012.8	7788.2	7469.4
67.5°	13937.9	13810.3	13627.3	14400.9	15626.4	15626.4	14170.8	10682.8	7366.8	6252.2	4885.3
70°	14586.7	14675.4	14966.5	16180.9	17481.3	17348.2	15207.7	9981.4	5484.2	3357.6	1921.4
72°	14154.1	14062.6	14814.0	16763.2	18623.6	18404.5	15033.1	7935.2	3169.1	1472.3	668.2
72.5°	13411.1	13497.0	14531.2	16682.8	18410.1	18590.3	14606.1	7319.7	2606.2	1172.8	504.6
75°	8223.5	8370.5	10846.4	14165.2	16042.3	15839.9	11298.4	3487.9	1000.9	499.1	180.2
77.5°	3002.7	3124.7	5262.4	8913.9	11409.3	11281.7	6537.8	1239.4	543.4	371.5	91.5
80°	781.9	845.6	1788.3	4111.8	6709.7	6718.0	2736.6	496.3	368.8	305.0	55.5
82.5°	155.3	171.9	549.0	1599.8	3135.8	3094.2	865.1	266.2	277.3	249.5	38.8
85°	19.4	25.0	116.4	543.4	1014.8	909.4	213.5	133.1	205.2	194.1	25.0
87.5°	2.8	2.8	27.7	124.8	213.5	207.9	44.4	41.6	91.5	119.2	13.9
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°	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9
2.5°	2836.4	2847.5	2886.3	2919.6	2958.4	2969.5	2952.8	2980.5	2941.7	2963.9	2969.5
5°	2841.9	2905.7	2977.8	3024.9	3013.8	2986.1	2963.9	2889.1	2836.4	2817.0	2858.6
7.5°	2880.7	2952.8	3030.5	3030.5	2969.5	2825.3	2686.7	2553.6	2442.7	2387.2	2434.3
10°	2930.6	3005.5	3085.9	2980.5	2753.2	2489.8	2292.9	2043.4	1874.3	1785.6	1793.9
12.5°	2997.2	3102.5	3130.3	2886.3	2509.2	2118.3	1760.6	1414.0	1253.2	1125.7	1128.4
15°	3083.1	3185.7	3102.5	2681.1	2198.7	1622.0	1192.2	862.3	734.7	668.2	668.2
17.5°	3196.8	3274.4	3094.2	2492.6	1780.0	1109.0	732.0	582.2	554.5	543.4	543.4
20°	3329.9	3388.1	3013.8	2198.7	1322.5	712.6	537.9	521.2	524.0	518.5	518.5
22.5°	3479.6	3499.0	2922.3	1857.6	895.6	526.8	501.8	504.6	507.4	501.8	504.6
25°	3637.7	3585.0	2789.2	1458.4	596.1	479.7	485.2	490.8	493.5	496.3	496.3
27.5°	3815.1	3709.7	2603.5	1067.5	465.8	451.9	468.6	485.2	488.0	488.0	485.2
30°	4075.7	3901.1	2423.3	723.6	410.3	421.4	449.2	468.6	482.4	482.4	479.7
32.5°	4405.7	4100.7	2170.9	493.5	379.8	385.4	407.6	446.4	476.9	479.7	471.3
35°	4863.1	4341.9	1907.6	393.7	357.7	360.4	374.3	404.8	457.5	474.1	471.3
37.5°	5345.6	4616.4	1580.4	354.9	341.0	338.3	346.6	371.5	418.7	460.3	463.0
40°	5858.5	4904.7	1236.6	335.5	327.2	321.6	324.4	335.5	371.5	424.2	435.3
42.5°	6340.9	5165.4	928.8	316.1	313.3	307.8	307.8	310.5	329.9	366.0	371.5
45°	6862.2	5378.9	707.0	302.2	293.9	296.7	285.6	280.0	293.9	296.7	293.9
47.5°	7350.2	5592.3	565.6	285.6	277.3	277.3	263.4	252.3	252.3	227.4	224.6
50°	7807.7	5708.8	451.9	263.4	260.6	257.9	238.4	219.0	202.4	171.9	166.4
52.5°	8187.5	5703.2	349.3	235.7	244.0	235.7	205.2	177.4	152.5	124.8	119.2
55°	8301.2	5437.1	263.4	194.1	207.9	196.9	163.6	138.6	110.9	88.7	86.0
57.5°	8204.1	5032.3	199.6	149.7	160.8	149.7	124.8	102.6	77.6	61.0	55.5
60°	7879.7	4558.2	155.3	116.4	122.0	113.7	94.3	77.6	55.5	38.8	33.3
62.5°	7264.2	3964.8	119.2	91.5	88.7	88.7	72.1	58.2	38.8	22.2	19.4
65°	5961.1	3091.5	91.5	63.8	63.8	63.8	55.5	41.6	25.0	11.1	5.5
67.5°	3743.0	1799.4	74.9	49.9	47.1	47.1	38.8	27.7	13.9	2.8	0.0
70°	1408.5	659.9	58.2	38.8	36.0	36.0	27.7	16.6	8.3	0.0	0.0
72°	485.2	252.3	47.1	27.7	27.7	25.0	19.4	13.9	5.5	0.0	0.0
72.5°	399.3	202.4	44.4	27.7	25.0	25.0	19.4	13.9	5.5	0.0	0.0
75°	144.2	83.2	30.5	19.4	16.6	16.6	13.9	8.3	2.8	0.0	0.0
77.5°	72.1	52.7	25.0	16.6	13.9	8.3	8.3	5.5	2.8	0.0	0.0
80°	44.4	33.3	13.9	11.1	8.3	5.5	2.8	2.8	0.0	0.0	0.0
82.5°	30.5	19.4	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.4	8.3	5.5	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	5.5	2.8	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)