

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: P483529

Luminaire Tested: **IFLD-L-SA8A-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483529  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

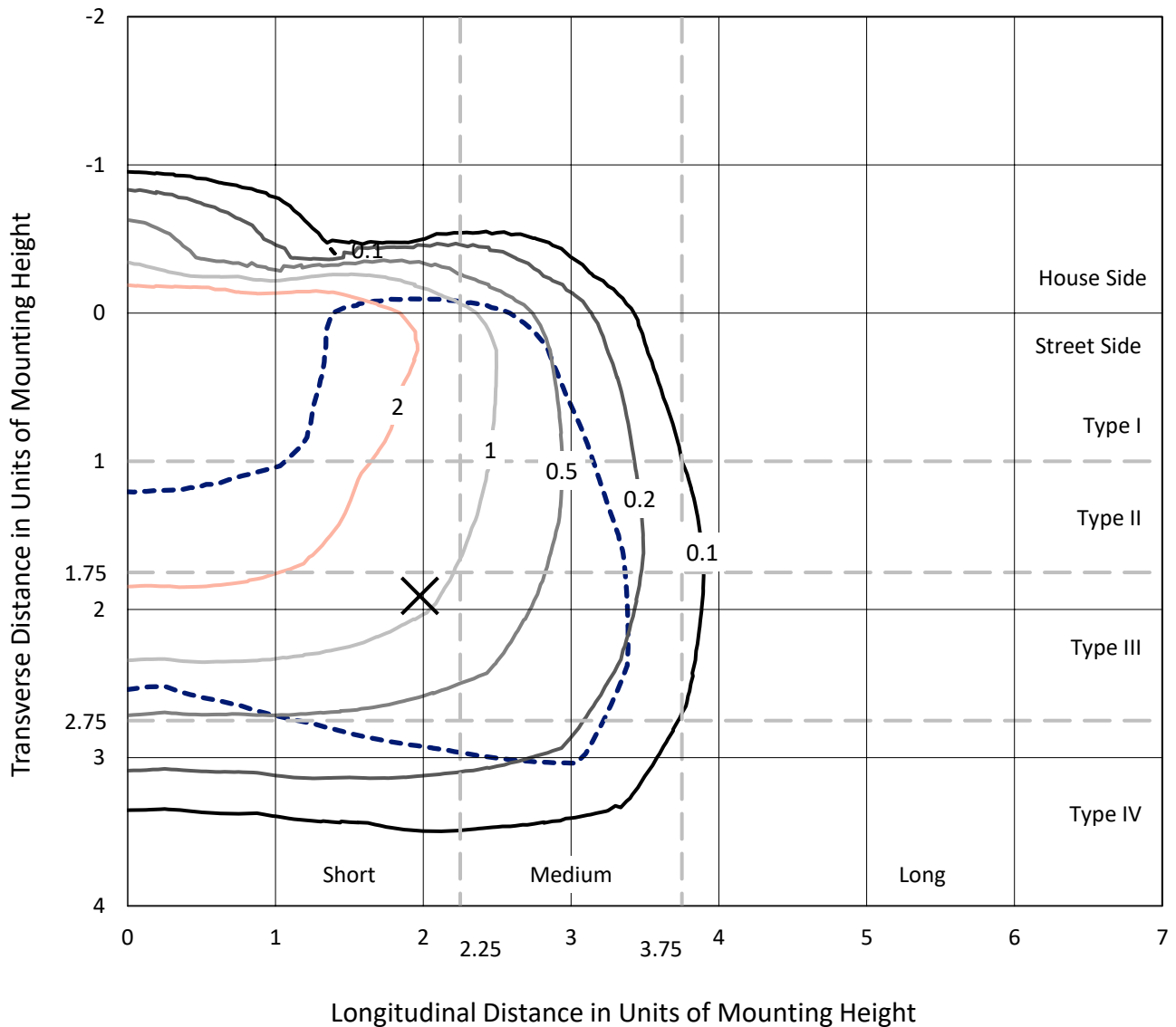
Lumens per Lamp: N/A  
Luminaire Lumens: 21137.9 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
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

REPORT NUMBER: P483529  
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

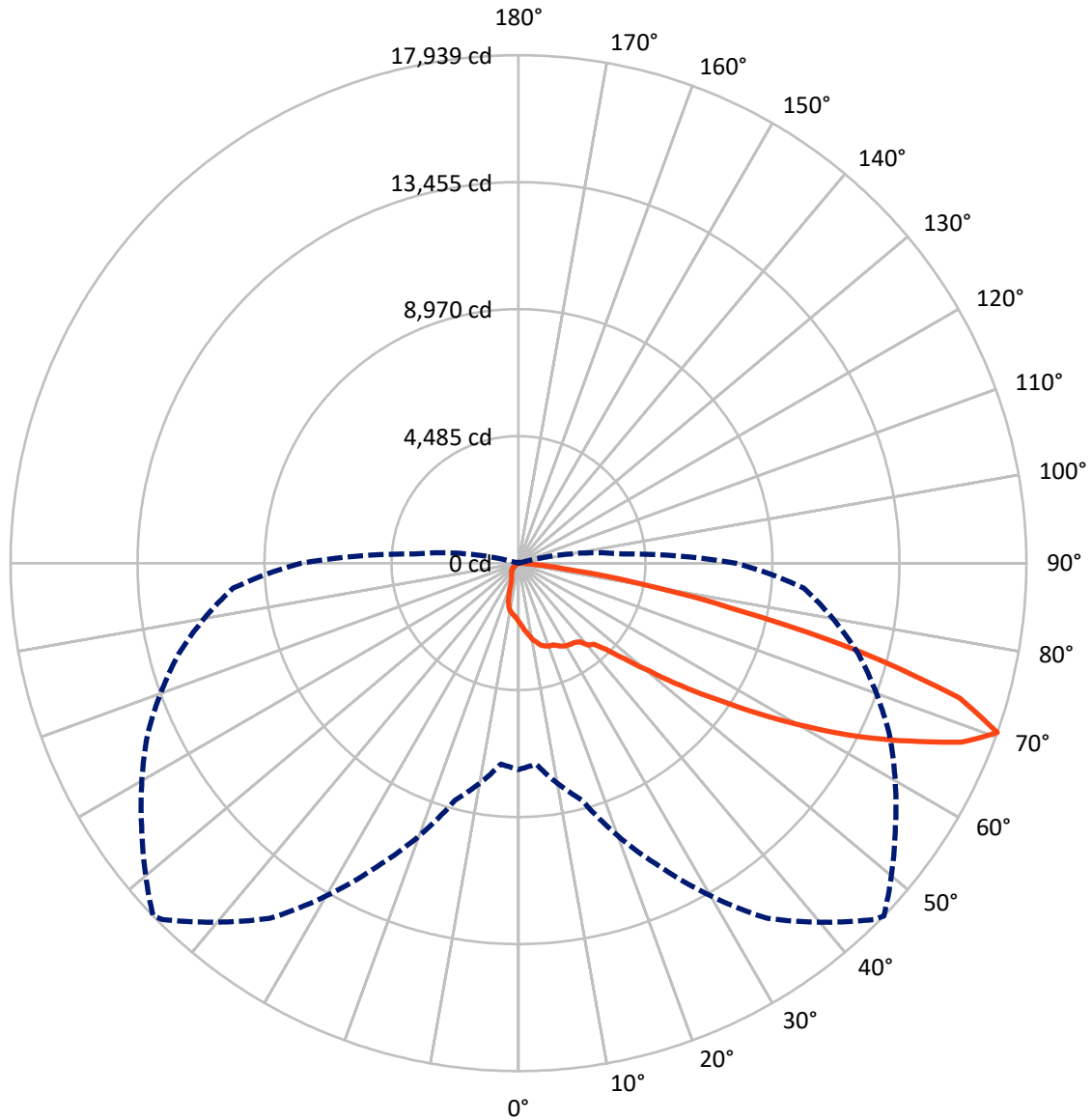
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483529  
CATALOG NUMBER: IFLD-L-SA8A-727-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2103.3	0.0	2103.3
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	19034.6	0.0	19034.6
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	21137.9	0.0	21137.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.9	1.0
10°-20°	624.8	3.0
20°-30°	1000.9	4.7
30°-40°	1428.6	6.8
40°-50°	2466.8	11.7
50°-60°	4723.0	22.3
60°-70°	6993.9	33.1
70°-80°	3464.0	16.4
80°-90°	228.9	1.1
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°	21137.9	100.0
0°-180°	21137.9	100.0

**Coefficient of Utilization**



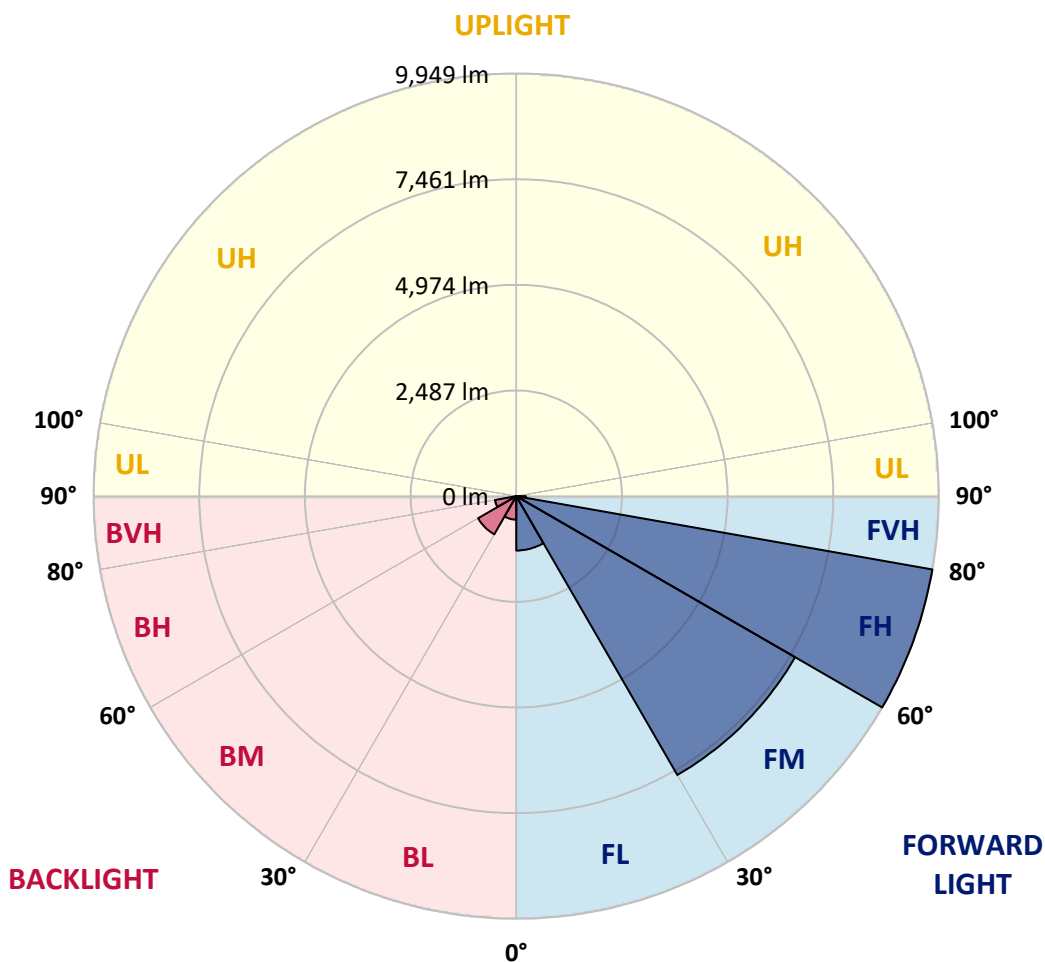
REPORT NUMBER: P483529  
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.1	6.1			
FM (30°-60°)	7580.0	35.9			
FH (60°-80°)	9948.6	47.1			G4/12000
FVH (80°-90°)	226.0	1.1			G3/500
BL (0°-30°)	552.6	2.6	B2/1000		
BM (30°-60°)	1038.4	4.9	B2/2500		
BH (60°-80°)	509.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	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





REPORT NUMBER: P483529

CATALOG NUMBER: IFLD-L-SA8A-727-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	2315.5	2300.2	2275.9	2266.8	2242.4	2230.3	2212.0	2202.9	2169.4	2135.9	2114.6
5°	2598.4	2561.9	2574.1	2537.6	2458.5	2394.6	2391.5	2321.5	2245.5	2184.6	2102.5
7.5°	2884.4	2854.0	2808.4	2756.6	2668.4	2574.1	2546.7	2479.8	2373.3	2266.8	2157.2
10°	3100.5	3079.2	3039.6	2966.6	2844.9	2738.4	2741.4	2628.8	2516.3	2394.6	2245.5
12.5°	3234.3	3243.5	3185.6	3112.6	3006.1	2872.3	2869.2	2793.1	2665.4	2537.6	2361.1
15°	3368.2	3401.7	3313.4	3228.2	3091.3	2994.0	3012.2	2920.9	2796.2	2650.1	2455.4
17.5°	3389.5	3398.6	3380.4	3255.6	3155.2	3073.1	3076.1	3015.3	2920.9	2762.7	2595.4
20°	3353.0	3346.9	3325.6	3234.3	3167.4	3118.7	3121.8	3106.5	3054.8	2927.0	2698.8
22.5°	3246.5	3246.5	3219.1	3158.3	3127.8	3173.5	3137.0	3194.8	3140.0	3063.9	2875.3
25°	3161.3	3194.8	3179.6	3140.0	3152.2	3213.0	3231.3	3286.1	3276.9	3182.6	2997.0
27.5°	3252.6	3213.0	3222.2	3176.5	3222.2	3313.4	3322.6	3362.1	3359.1	3283.0	3106.5
30°	3313.4	3349.9	3280.0	3179.6	3228.2	3383.4	3377.3	3429.1	3453.4	3362.1	3210.0
32.5°	3508.2	3477.7	3419.9	3286.1	3292.1	3380.4	3407.8	3474.7	3489.9	3435.1	3310.4
35°	3906.8	3861.1	3608.6	3407.8	3377.3	3419.9	3438.2	3569.0	3596.4	3535.5	3416.9
37.5°	4521.4	4417.9	4113.7	3669.4	3532.5	3523.4	3523.4	3696.8	3800.3	3660.3	3575.1
40°	5400.7	5254.6	4926.0	4153.2	3736.4	3772.9	3809.4	3903.7	3891.5	3800.3	3782.0
42.5°	6520.4	6407.8	6051.8	4965.6	4125.8	3943.3	3912.8	4040.6	4232.3	4195.8	4183.6
45°	7454.5	7460.6	7232.4	6079.2	4798.2	4335.8	4357.1	4454.4	4776.9	4749.6	4746.5
47.5°	8136.0	8050.8	8017.4	7153.3	5778.0	5081.2	5050.8	5117.7	5537.6	5711.0	5790.1
50°	8756.7	8698.9	8619.8	8196.9	6955.5	6015.3	5984.9	5991.0	6633.0	6876.4	7071.1
52.5°	9526.5	9599.5	9337.9	9079.2	8479.8	7229.3	7195.8	7077.2	7874.4	8209.0	8440.3
55°	10475.8	10338.9	10043.8	10177.6	9937.3	8540.7	8479.8	8339.9	9289.2	9429.1	9672.6
57.5°	10685.8	10582.3	10886.6	11361.2	11592.5	10080.3	10055.9	9803.4	10478.9	10351.1	11038.7
60°	11209.1	11236.5	11659.4	12602.6	13004.2	11857.2	11738.5	11294.3	11632.0	11656.4	12389.6
62.5°	11747.6	11683.7	12630.0	13536.7	14154.4	13539.8	13500.2	12617.8	13001.2	12690.9	13661.5
65°	11352.1	11449.5	12803.4	14321.7	15645.3	15185.8	15152.4	13892.7	14102.6	13716.2	14178.7
67.5°	9946.4	9748.6	11644.2	13962.7	16412.0	16911.0	16874.5	15283.2	14723.3	13710.1	13104.7
70°	7290.2	7119.8	8665.4	11823.7	15313.6	17793.4	17939.4	16250.7	14470.8	12432.2	10110.7
72.5°	3572.1	3575.1	4856.1	8017.4	12115.8	16217.3	16290.3	14899.8	12432.2	9164.4	5726.3
75°	1055.8	1068.0	1798.2	3931.1	7831.8	12316.6	12398.8	11309.5	8616.8	4734.4	1953.4
77.5°	386.4	386.4	596.4	1475.7	3906.8	7773.9	7767.9	6943.3	4363.1	1603.5	456.4
80°	200.8	209.9	310.3	602.4	1691.7	4049.8	4201.9	3398.6	1658.2	675.5	133.9
82.5°	82.2	91.3	170.4	310.3	812.4	1420.9	1554.8	1332.7	721.1	471.6	60.9
85°	24.3	27.4	82.2	173.4	319.5	356.0	395.5	447.3	453.4	365.1	27.4
87.5°	3.0	3.0	33.5	57.8	70.0	76.1	88.2	88.2	231.2	255.6	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483529

CATALOG NUMBER: IFLD-L-SA8A-727-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	2090.3	2075.1	2050.7	1996.0	1983.8	1944.2	1941.2	1904.7	1916.9	1892.5	1883.4
5°	2075.1	2041.6	1974.7	1932.1	1889.5	1862.1	1843.8	1828.6	1825.6	1813.4	1807.3
7.5°	2102.5	2056.8	1953.4	1886.4	1813.4	1789.1	1749.5	1746.5	1725.2	1703.9	1703.9
10°	2193.7	2111.6	1999.0	1886.4	1792.1	1713.0	1621.7	1554.8	1530.4	1475.7	1481.8
12.5°	2266.8	2193.7	2029.4	1913.8	1770.8	1591.3	1390.5	1235.3	1162.3	1092.3	1119.7
15°	2370.2	2263.7	2087.3	1919.9	1688.7	1378.3	1049.7	876.3	809.3	794.1	791.1
17.5°	2482.8	2370.2	2160.3	1904.7	1521.3	1064.9	772.8	672.4	684.6	702.9	699.8
20°	2607.5	2470.6	2215.0	1853.0	1256.6	772.8	632.9	629.8	648.1	675.5	681.6
22.5°	2738.4	2619.7	2282.0	1697.8	937.1	620.7	608.5	608.5	620.7	654.2	648.1
25°	2884.4	2726.2	2315.5	1457.4	672.4	572.0	578.1	590.3	596.4	623.7	626.8
27.5°	2997.0	2844.9	2324.6	1168.4	547.7	529.4	544.6	559.8	569.0	590.3	599.4
30°	3100.5	2994.0	2275.9	870.2	502.0	492.9	499.0	520.3	538.5	556.8	556.8
32.5°	3231.3	3079.2	2163.3	617.7	474.7	459.4	456.4	465.5	486.8	508.1	508.1
35°	3365.2	3222.2	1983.8	496.0	450.3	429.0	416.8	407.7	416.8	432.1	444.2
37.5°	3559.9	3438.2	1758.6	456.4	432.1	401.6	377.3	356.0	340.8	337.7	346.9
40°	3836.8	3681.6	1469.6	429.0	410.8	374.2	337.7	301.2	267.8	246.5	249.5
42.5°	4256.7	4040.6	1156.2	413.8	395.5	343.8	292.1	240.4	197.8	176.5	176.5
45°	4856.1	4515.3	848.9	398.6	377.3	307.3	240.4	179.5	136.9	124.7	127.8
47.5°	5759.7	5087.3	608.5	374.2	352.9	267.8	188.6	127.8	100.4	94.3	97.4
50°	6940.3	5765.8	474.7	346.9	322.5	225.2	140.0	94.3	79.1	76.1	79.1
52.5°	8178.6	6450.4	416.8	322.5	276.9	179.5	103.4	76.1	66.9	63.9	66.9
55°	9237.5	6891.6	362.1	286.0	222.1	133.9	82.2	66.9	57.8	48.7	48.7
57.5°	10308.5	7113.7	286.0	237.3	164.3	100.4	70.0	57.8	48.7	39.6	36.5
60°	11178.7	7271.9	203.9	176.5	115.6	79.1	60.9	51.7	39.6	30.4	27.4
62.5°	11750.7	6818.6	149.1	133.9	85.2	66.9	51.7	42.6	30.4	21.3	21.3
65°	11467.7	6191.8	115.6	94.3	63.9	51.7	42.6	30.4	21.3	12.2	9.1
67.5°	10290.2	5044.7	94.3	70.0	48.7	39.6	33.5	24.3	12.2	3.0	3.0
70°	7676.6	3696.8	76.1	51.7	39.6	30.4	24.3	15.2	6.1	3.0	0.0
72.5°	4198.8	2023.4	60.9	42.6	30.4	24.3	18.3	12.2	6.1	0.0	0.0
75°	1387.4	538.5	45.6	30.4	18.3	15.2	12.2	9.1	3.0	0.0	0.0
77.5°	334.7	140.0	36.5	27.4	15.2	9.1	6.1	3.0	3.0	0.0	0.0
80°	103.4	57.8	27.4	18.3	12.2	9.1	3.0	0.0	0.0	0.0	0.0
82.5°	42.6	27.4	12.2	12.2	9.1	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	15.2	9.1	6.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	6.1	3.0	3.0	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)