

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: P483525

Luminaire Tested: **IFLD-L-SA7B-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483525  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

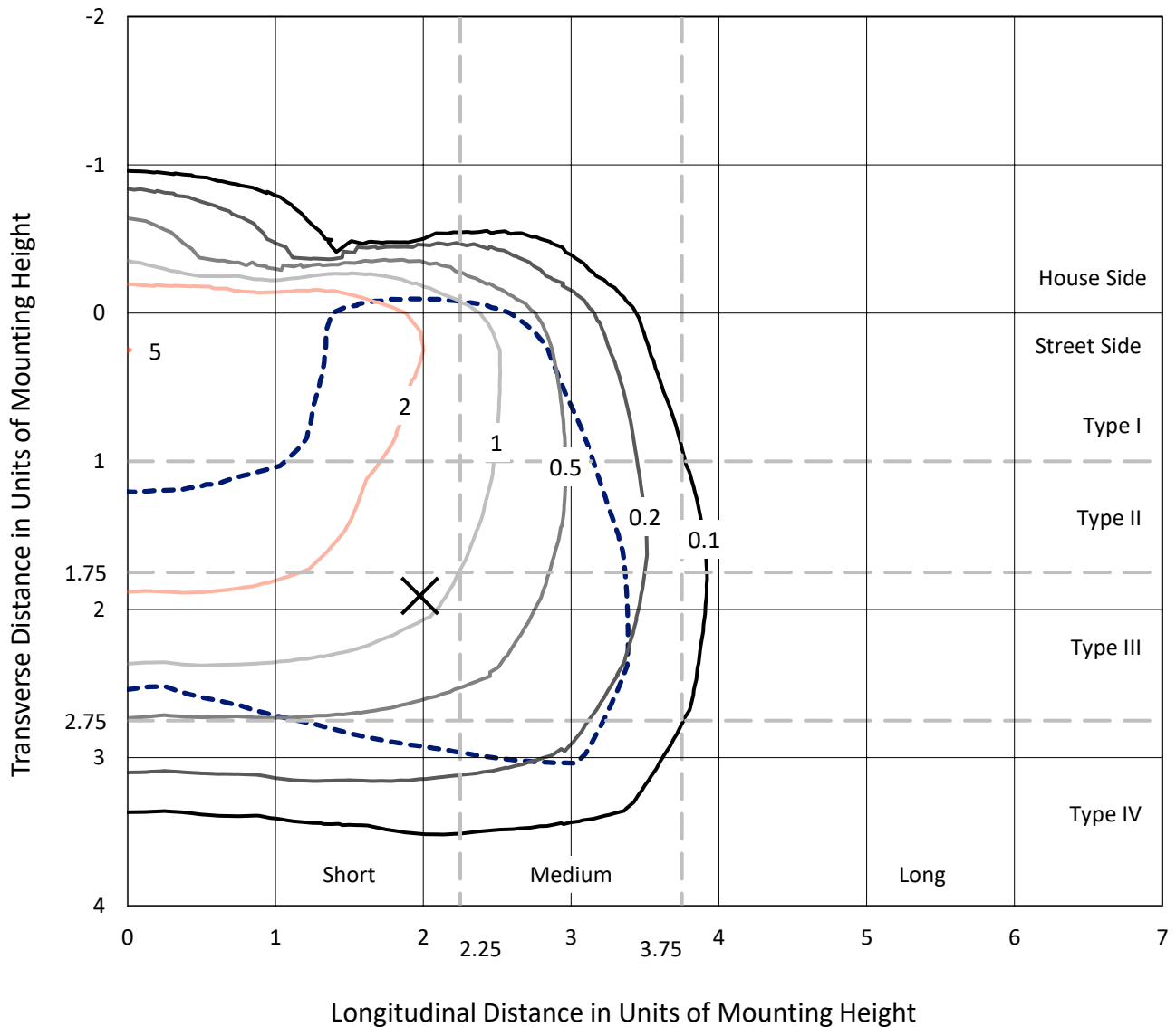
Lumens per Lamp: N/A  
Luminaire Lumens: 21974.5 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

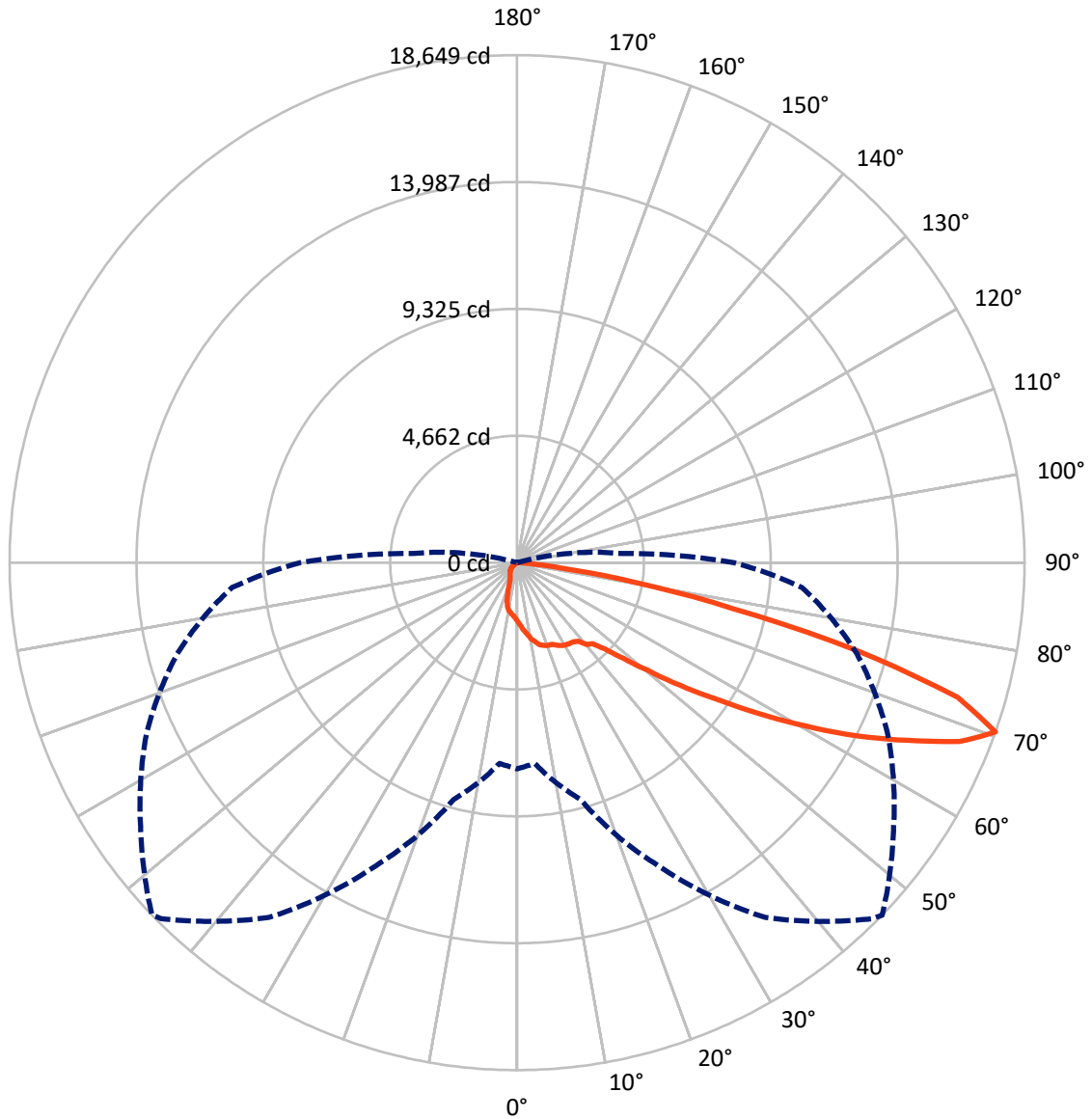
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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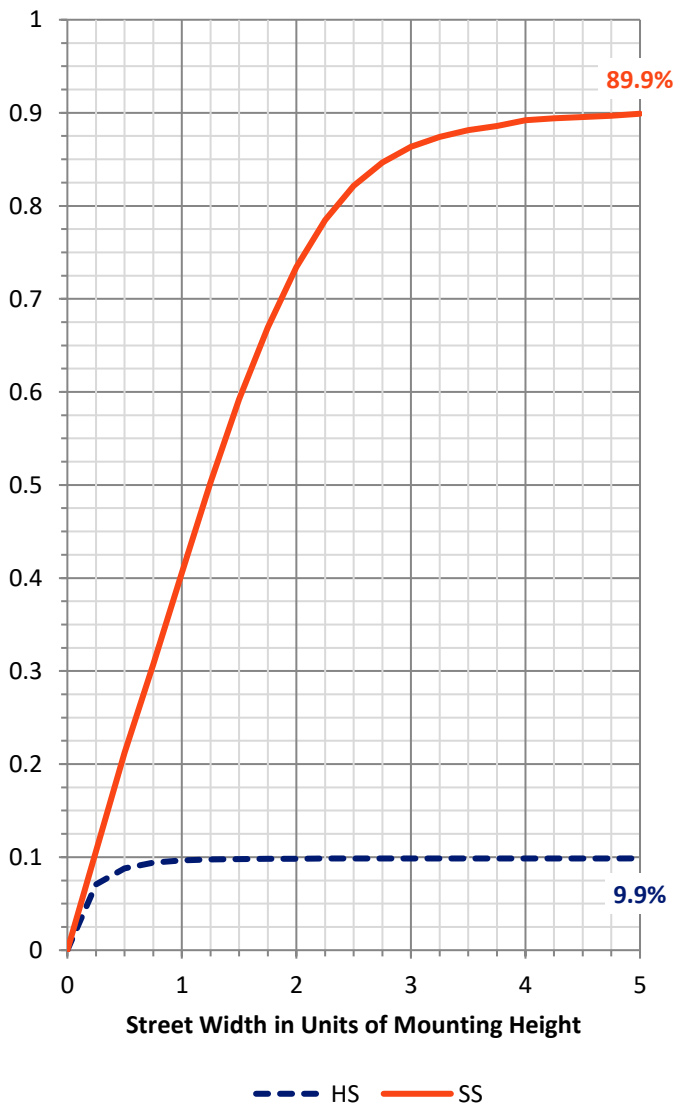
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2186.5	0.0	2186.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	19788.0	0.0	19788.0
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	21974.5	0.0	21974.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.1	1.0
10°-20°	649.6	3.0
20°-30°	1040.5	4.7
30°-40°	1485.2	6.8
40°-50°	2564.5	11.7
50°-60°	4909.9	22.3
60°-70°	7270.8	33.1
70°-80°	3601.1	16.4
80°-90°	238.0	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°	21974.5	100.0
0°-180°	21974.5	100.0

**Coefficient of Utilization**



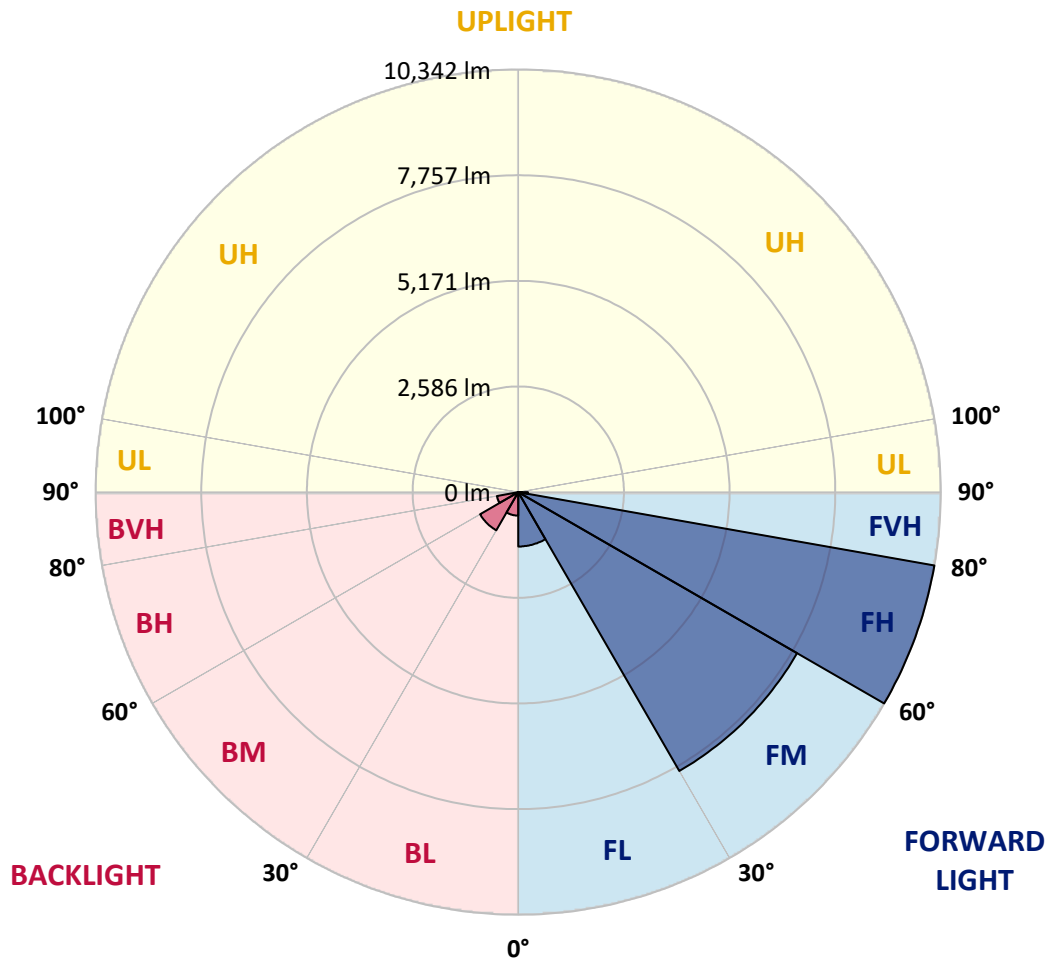
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.7	6.1			
FM (30°-60°)	7880.0	35.9			
FH (60°-80°)	10342.3	47.1			G4/12000
FVH (80°-90°)	234.9	1.1			G3/500
BL (0°-30°)	574.4	2.6	B2/1000		
BM (30°-60°)	1079.5	4.9	B2/2500		
BH (60°-80°)	529.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	35°	45°	46°	55°	65°	75°	85°
0°	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2407.1	2391.3	2366.0	2356.5	2331.2	2318.5	2299.6	2290.1	2255.3	2220.5	2198.3
5°	2701.3	2663.3	2676.0	2638.0	2555.8	2489.3	2486.2	2413.4	2334.3	2271.1	2185.7
7.5°	2998.6	2967.0	2919.5	2865.7	2774.0	2676.0	2647.5	2577.9	2467.2	2356.5	2242.6
10°	3223.2	3201.0	3159.9	3084.0	2957.5	2846.8	2849.9	2732.9	2615.9	2489.3	2334.3
12.5°	3362.3	3371.8	3311.7	3235.8	3125.1	2985.9	2982.8	2903.7	2770.8	2638.0	2454.5
15°	3501.5	3536.3	3444.6	3356.0	3213.7	3112.5	3131.4	3036.5	2906.9	2755.0	2552.6
17.5°	3523.7	3533.1	3514.2	3384.5	3280.1	3194.7	3197.9	3134.6	3036.5	2872.1	2698.1
20°	3485.7	3479.4	3457.2	3362.3	3292.8	3242.1	3245.3	3229.5	3175.7	3042.9	2805.6
22.5°	3375.0	3375.0	3346.5	3283.3	3251.6	3299.1	3261.1	3321.2	3264.3	3185.2	2989.1
25°	3286.4	3321.2	3305.4	3264.3	3276.9	3340.2	3359.2	3416.1	3406.6	3308.6	3115.6
27.5°	3381.3	3340.2	3349.7	3302.2	3349.7	3444.6	3454.1	3495.2	3492.0	3412.9	3229.5
30°	3444.6	3482.5	3409.8	3305.4	3356.0	3517.3	3511.0	3564.8	3590.1	3495.2	3337.0
32.5°	3647.0	3615.4	3555.3	3416.1	3422.4	3514.2	3542.6	3612.2	3628.0	3571.1	3441.4
35°	4061.4	4013.9	3751.4	3542.6	3511.0	3555.3	3574.3	3710.3	3738.7	3675.5	3552.1
37.5°	4700.3	4592.8	4276.5	3814.7	3672.3	3662.8	3662.8	3843.1	3950.7	3805.2	3716.6
40°	5614.4	5462.6	5121.0	4317.6	3884.2	3922.2	3960.2	4058.2	4045.6	3950.7	3931.7
42.5°	6778.5	6661.4	6291.3	5162.1	4289.1	4099.3	4067.7	4200.6	4399.8	4361.9	4349.2
45°	7749.5	7755.8	7518.6	6319.8	4988.2	4507.4	4529.5	4630.7	4966.0	4937.5	4934.4
47.5°	8458.0	8369.5	8334.7	7436.4	6006.7	5282.3	5250.7	5320.3	5756.8	5937.1	6019.3
50°	9103.3	9043.2	8961.0	8521.3	7230.8	6253.4	6221.8	6228.1	6895.5	7148.5	7351.0
52.5°	9903.6	9979.5	9707.5	9438.6	8815.5	7515.4	7480.7	7357.3	8186.0	8534.0	8774.3
55°	10890.4	10748.1	10441.3	10580.5	10330.6	8878.7	8815.5	8670.0	9656.8	9802.3	10055.4
57.5°	11108.7	11001.1	11317.5	11810.9	12051.3	10479.2	10453.9	10191.4	10893.6	10760.8	11475.6
60°	11652.7	11681.2	12120.9	13101.4	13519.0	12326.5	12203.1	11741.3	12092.4	12117.7	12880.0
62.5°	12212.6	12146.2	13129.9	14072.5	14714.6	14075.7	14034.5	13117.2	13515.8	13193.2	14202.2
65°	11801.4	11902.6	13310.2	14888.6	16264.5	15786.9	15752.1	14442.6	14660.8	14259.1	14739.9
67.5°	10340.1	10134.5	12105.1	14515.3	17061.6	17580.3	17542.4	15888.1	15306.1	14252.8	13623.3
70°	7578.7	7401.6	9008.4	12291.7	15919.7	18497.6	18649.4	16893.9	15043.5	12924.3	10510.9
72.5°	3713.4	3716.6	5048.3	8334.7	12595.3	16859.1	16935.1	15489.5	12924.3	9527.2	5952.9
75°	1097.6	1110.2	1869.4	4086.7	8141.7	12804.1	12889.5	11757.1	8957.8	4921.7	2030.7
77.5°	401.7	401.7	620.0	1534.1	4061.4	8081.6	8075.3	7218.1	4535.8	1666.9	474.5
80°	208.8	218.3	322.6	626.3	1758.7	4210.0	4368.2	3533.1	1723.9	702.2	139.2
82.5°	85.4	94.9	177.1	322.6	844.5	1477.2	1616.3	1385.4	749.6	490.3	63.3
85°	25.3	28.5	85.4	180.3	332.1	370.1	411.2	465.0	471.3	379.6	28.5
87.5°	3.2	3.2	34.8	60.1	72.8	79.1	91.7	91.7	240.4	265.7	15.8
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°	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2173.0	2157.2	2131.9	2075.0	2062.3	2021.2	2018.0	1980.1	1992.7	1967.4	1957.9
5°	2157.2	2122.4	2052.8	2008.5	1964.3	1935.8	1916.8	1901.0	1897.8	1885.2	1878.9
7.5°	2185.7	2138.2	2030.7	1961.1	1885.2	1859.9	1818.8	1815.6	1793.5	1771.3	1771.3
10°	2280.6	2195.2	2078.1	1961.1	1863.0	1780.8	1685.9	1616.3	1591.0	1534.1	1540.4
12.5°	2356.5	2280.6	2109.8	1989.6	1840.9	1654.3	1445.5	1284.2	1208.3	1135.5	1164.0
15°	2464.0	2353.3	2169.9	1995.9	1755.5	1432.9	1091.3	911.0	841.4	825.6	822.4
17.5°	2581.1	2464.0	2245.8	1980.1	1581.5	1107.1	803.4	699.0	711.7	730.7	727.5
20°	2710.7	2568.4	2302.7	1926.3	1306.3	803.4	657.9	654.8	673.7	702.2	708.5
22.5°	2846.8	2723.4	2372.3	1765.0	974.2	645.3	632.6	632.6	645.3	680.1	673.7
25°	2998.6	2834.1	2407.1	1515.1	699.0	594.7	601.0	613.6	620.0	648.4	651.6
27.5°	3115.6	2957.5	2416.6	1214.6	569.4	550.4	566.2	582.0	591.5	613.6	623.1
30°	3223.2	3112.5	2366.0	904.6	521.9	512.4	518.7	540.9	559.9	578.8	578.8
32.5°	3359.2	3201.0	2248.9	642.1	493.4	477.6	474.5	483.9	506.1	528.2	528.2
35°	3498.4	3349.7	2062.3	515.6	468.1	446.0	433.3	423.9	433.3	449.2	461.8
37.5°	3700.8	3574.3	1828.3	474.5	449.2	417.5	392.2	370.1	354.3	351.1	360.6
40°	3988.6	3827.3	1527.8	446.0	427.0	389.1	351.1	313.1	278.3	256.2	259.4
42.5°	4425.1	4200.6	1202.0	430.2	411.2	357.4	303.7	249.9	205.6	183.5	183.5
45°	5048.3	4694.0	882.5	414.4	392.2	319.5	249.9	186.6	142.3	129.7	132.8
47.5°	5987.7	5288.6	632.6	389.1	366.9	278.3	196.1	132.8	104.4	98.1	101.2
50°	7215.0	5994.0	493.4	360.6	335.3	234.1	145.5	98.1	82.2	79.1	82.2
52.5°	8502.3	6705.7	433.3	335.3	287.8	186.6	107.5	79.1	69.6	66.4	69.6
55°	9603.1	7164.3	376.4	297.3	230.9	139.2	85.4	69.6	60.1	50.6	50.6
57.5°	10716.5	7395.3	297.3	246.7	170.8	104.4	72.8	60.1	50.6	41.1	38.0
60°	11621.1	7559.7	211.9	183.5	120.2	82.2	63.3	53.8	41.1	31.6	28.5
62.5°	12215.8	7088.4	155.0	139.2	88.6	69.6	53.8	44.3	31.6	22.1	22.1
65°	11921.6	6436.8	120.2	98.1	66.4	53.8	44.3	31.6	22.1	12.7	9.5
67.5°	10697.5	5244.4	98.1	72.8	50.6	41.1	34.8	25.3	12.7	3.2	3.2
70°	7980.4	3843.1	79.1	53.8	41.1	31.6	25.3	15.8	6.3	3.2	0.0
72.5°	4365.0	2103.4	63.3	44.3	31.6	25.3	19.0	12.7	6.3	0.0	0.0
75°	1442.4	559.9	47.4	31.6	19.0	15.8	12.7	9.5	3.2	0.0	0.0
77.5°	347.9	145.5	38.0	28.5	15.8	9.5	6.3	3.2	3.2	0.0	0.0
80°	107.5	60.1	28.5	19.0	12.7	9.5	3.2	0.0	0.0	0.0	0.0
82.5°	44.3	28.5	12.7	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.1	15.8	9.5	6.3	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	6.3	3.2	3.2	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)