

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: P483524

Luminaire Tested: **IFLD-L-SA7A-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483524  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-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**

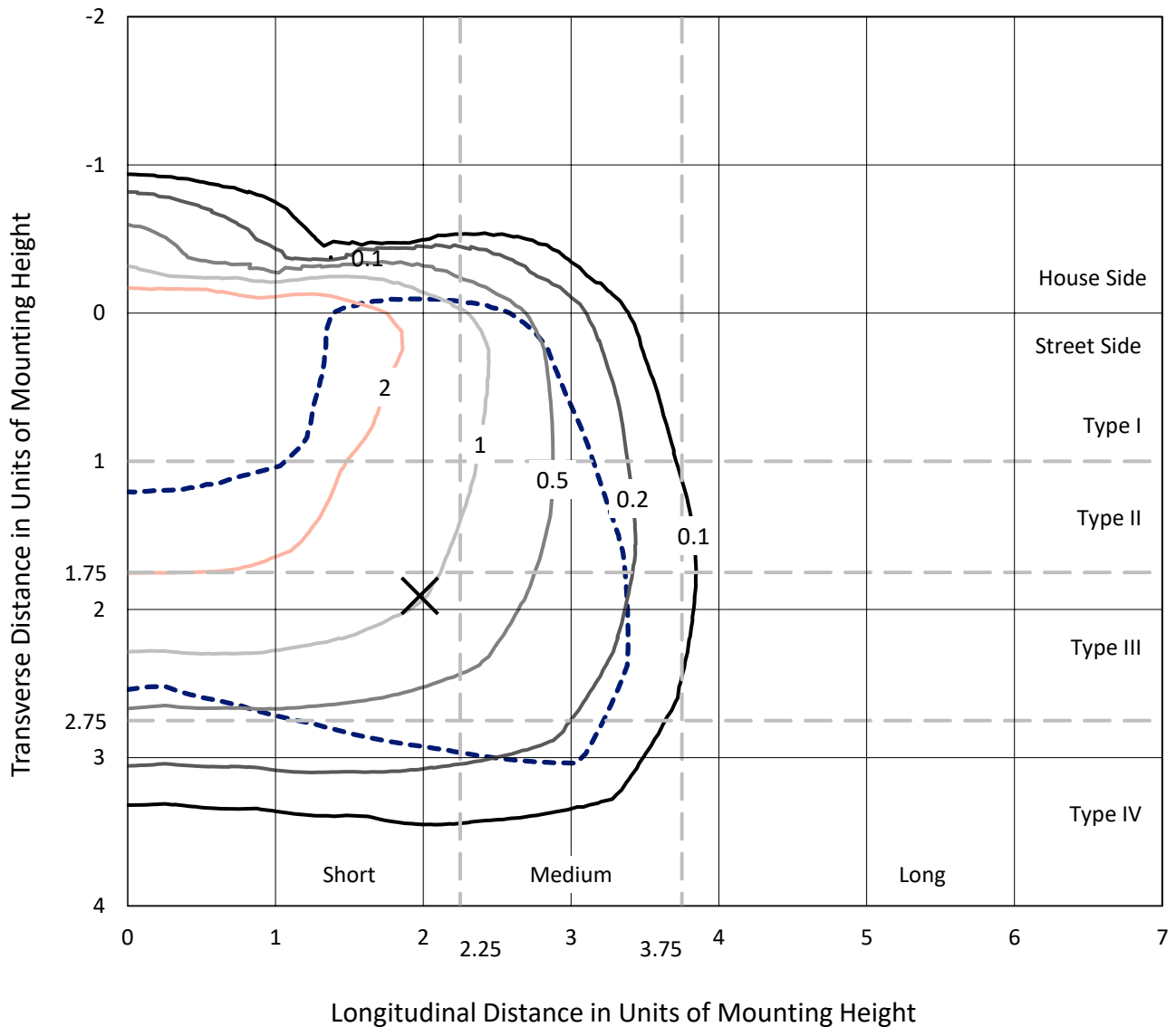
Lumens per Lamp: N/A  
Luminaire Lumens: 19314 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
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

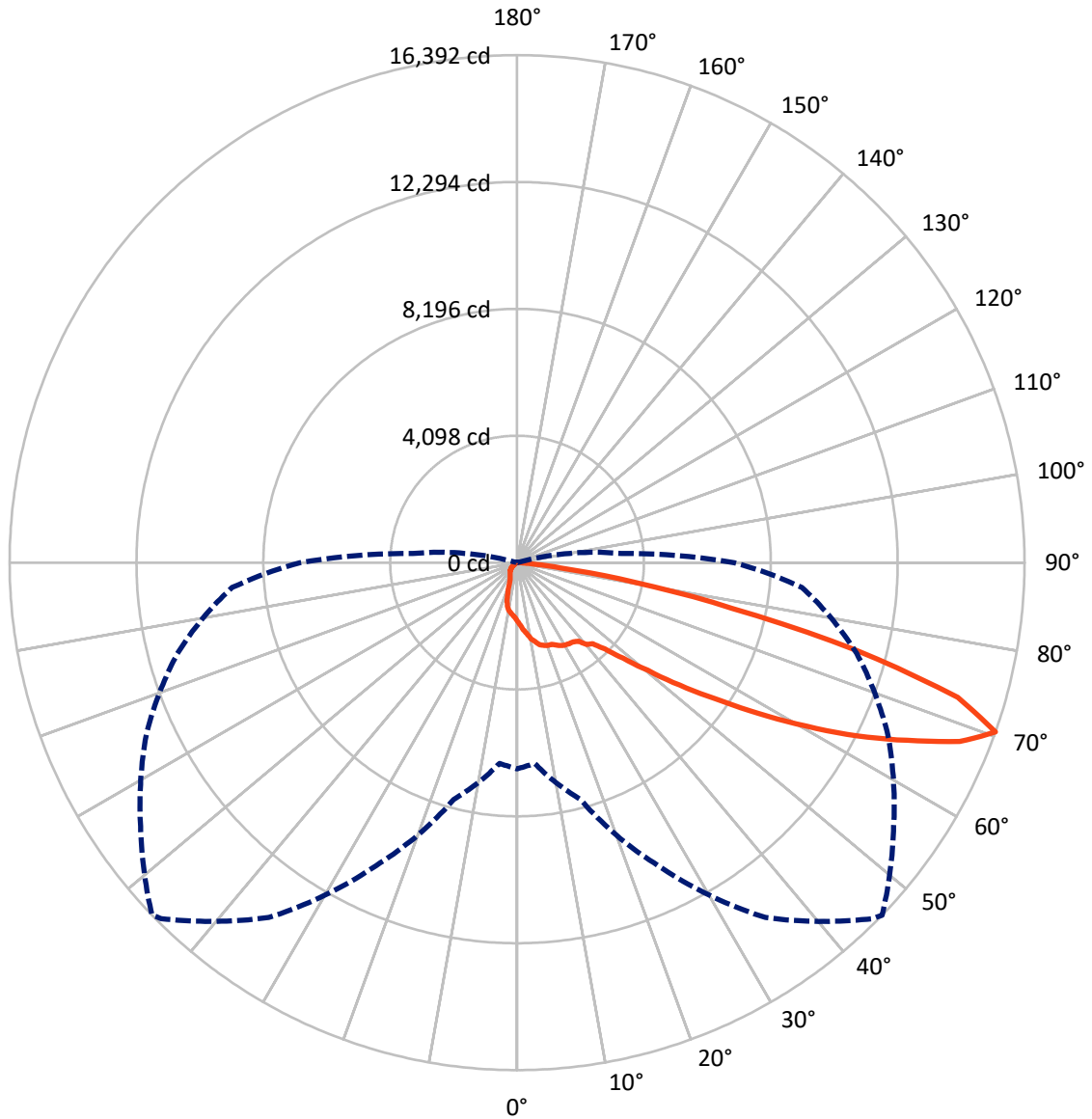
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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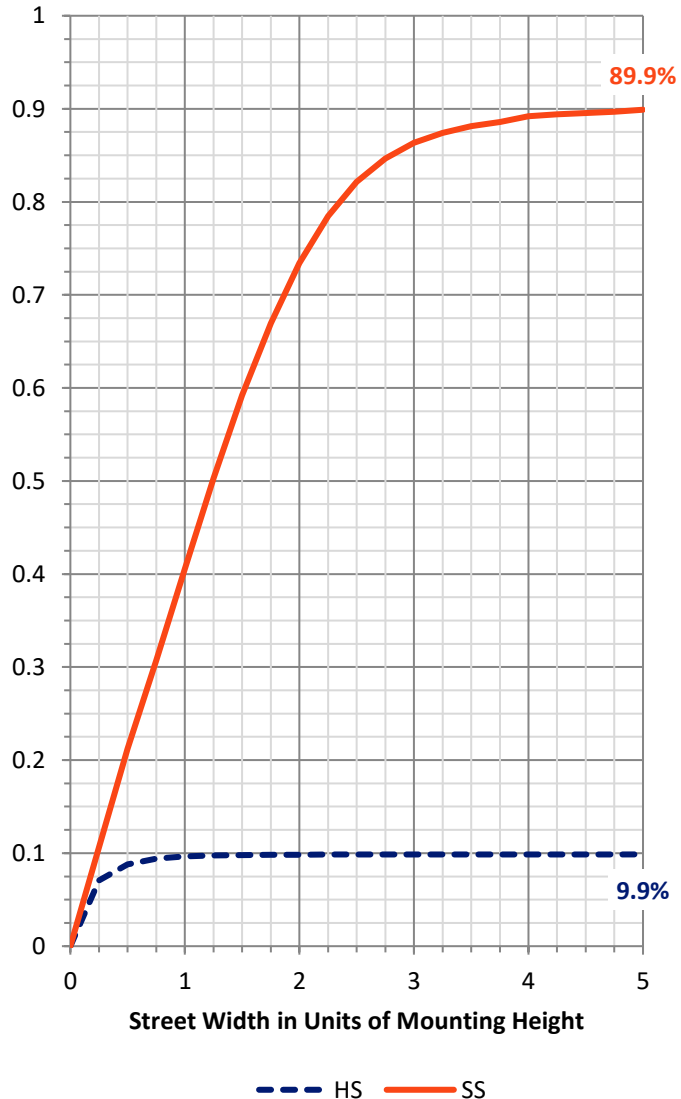
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1921.8	0.0	1921.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	17392.2	0.0	17392.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	19314.0	0.0	19314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	1.0
10°-20°	570.9	3.0
20°-30°	914.5	4.7
30°-40°	1305.3	6.8
40°-50°	2254.0	11.7
50°-60°	4315.4	22.3
60°-70°	6390.5	33.1
70°-80°	3165.1	16.4
80°-90°	209.1	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°	19314.0	100.0
0°-180°	19314.0	100.0

**Coefficient of Utilization**

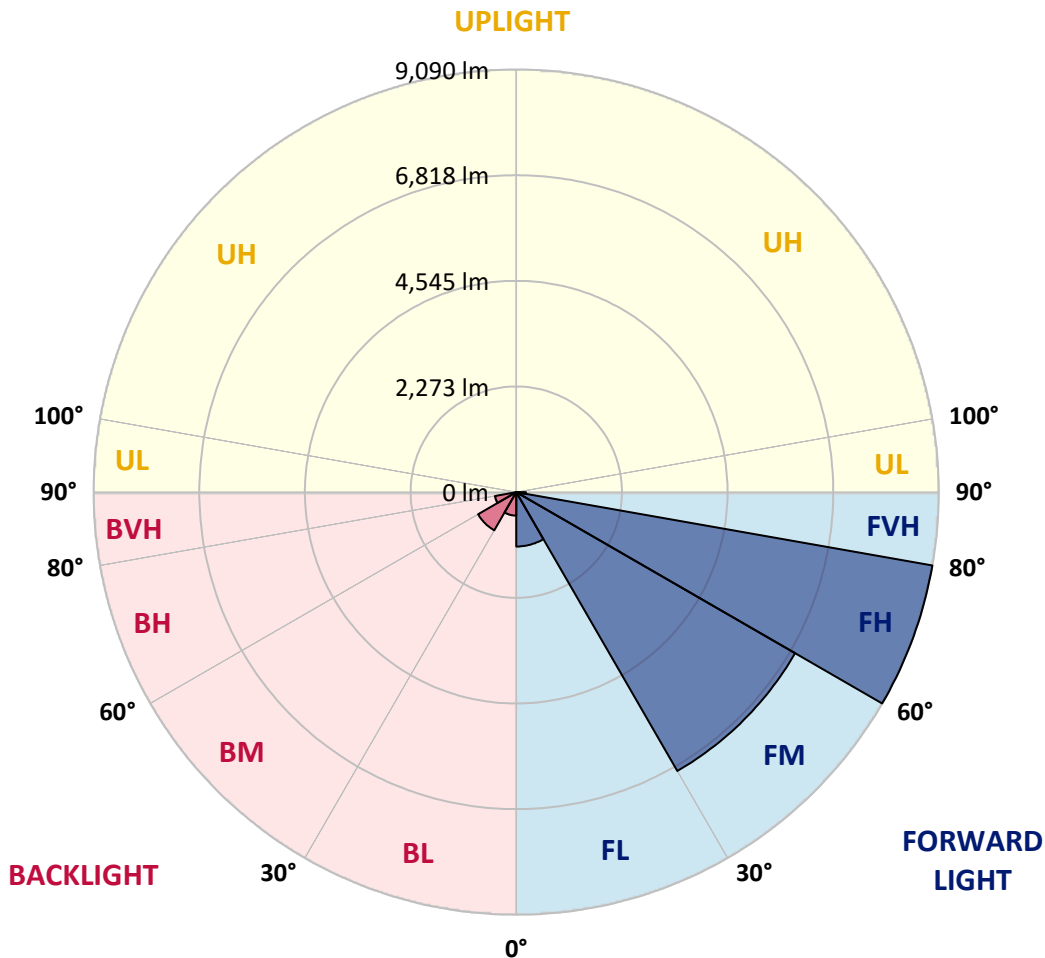


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.6	6.1			
FM (30°-60°)	6926.0	35.9			
FH (60°-80°)	9090.2	47.1			G4/12000
FVH (80°-90°)	206.5	1.1			G2/225
BL (0°-30°)	504.9	2.6	B2/1000		
BM (30°-60°)	948.8	4.9	B1/1000		
BH (60°-80°)	465.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	2115.7	2101.8	2079.5	2071.2	2048.9	2037.8	2021.1	2012.8	1982.2	1951.6	1932.2
5°	2374.2	2340.9	2352.0	2318.6	2246.3	2188.0	2185.2	2121.2	2051.7	1996.1	1921.1
7.5°	2635.5	2607.7	2566.0	2518.8	2438.2	2352.0	2327.0	2265.8	2168.5	2071.2	1971.1
10°	2832.9	2813.5	2777.3	2710.6	2599.4	2502.1	2504.9	2402.0	2299.2	2188.0	2051.7
12.5°	2955.3	2963.6	2910.8	2844.1	2746.8	2624.4	2621.6	2552.1	2435.4	2318.6	2157.4
15°	3077.6	3108.2	3027.5	2949.7	2824.6	2735.6	2752.3	2668.9	2554.9	2421.5	2243.6
17.5°	3097.0	3105.4	3088.7	2974.7	2883.0	2807.9	2810.7	2755.1	2668.9	2524.3	2371.4
20°	3063.7	3058.1	3038.7	2955.3	2894.1	2849.6	2852.4	2838.5	2791.2	2674.5	2466.0
22.5°	2966.4	2966.4	2941.4	2885.8	2858.0	2899.7	2866.3	2919.1	2869.1	2799.6	2627.2
25°	2888.5	2919.1	2905.2	2869.1	2880.2	2935.8	2952.5	3002.5	2994.2	2908.0	2738.4
27.5°	2971.9	2935.8	2944.1	2902.4	2944.1	3027.5	3035.9	3072.0	3069.2	2999.7	2838.5
30°	3027.5	3060.9	2997.0	2905.2	2949.7	3091.5	3085.9	3133.2	3155.4	3072.0	2933.0
32.5°	3205.5	3177.7	3124.8	3002.5	3008.1	3088.7	3113.7	3174.9	3188.8	3138.7	3024.8
35°	3569.7	3528.0	3297.2	3113.7	3085.9	3124.8	3141.5	3261.1	3286.1	3230.5	3122.1
37.5°	4131.3	4036.7	3758.7	3352.8	3227.7	3219.4	3219.4	3377.8	3472.4	3344.5	3266.6
40°	4934.7	4801.3	4501.0	3794.9	3414.0	3447.3	3480.7	3566.9	3555.8	3472.4	3455.7
42.5°	5957.8	5854.9	5529.6	4537.1	3769.8	3603.0	3575.2	3692.0	3867.1	3833.8	3822.7
45°	6811.3	6816.8	6608.3	5554.7	4384.2	3961.7	3981.1	4070.1	4364.8	4339.8	4337.0
47.5°	7434.0	7356.2	7325.6	6536.0	5279.4	4642.8	4615.0	4676.2	5059.8	5218.3	5290.6
50°	8001.2	7948.3	7876.1	7489.6	6355.3	5496.3	5468.5	5474.0	6060.6	6283.1	6461.0
52.5°	8704.5	8771.3	8532.2	8295.9	7748.2	6605.6	6575.0	6466.5	7194.9	7500.7	7712.0
55°	9571.9	9446.8	9177.2	9299.5	9079.9	7803.8	7748.2	7620.3	8487.7	8615.6	8838.0
57.5°	9763.8	9669.2	9947.3	10380.9	10592.2	9210.5	9188.3	8957.5	9574.7	9457.9	10086.3
60°	10241.9	10267.0	10653.4	11515.2	11882.2	10834.1	10725.7	10319.8	10628.4	10650.6	11320.6
62.5°	10734.0	10675.6	11540.3	12368.7	12933.1	12371.5	12335.4	11529.1	11879.4	11595.9	12482.7
65°	10372.6	10461.6	11698.7	13086.0	14295.3	13875.6	13845.0	12694.0	12885.8	12532.8	12955.3
67.5°	9088.2	8907.5	10639.5	12757.9	14995.9	15451.9	15418.5	13964.5	13453.0	12527.2	11974.0
70°	6661.2	6505.5	7917.8	10803.5	13992.3	16258.1	16391.6	14848.6	13222.2	11359.5	9238.3
72.5°	3263.9	3266.6	4437.1	7325.6	11070.4	14818.0	14884.7	13614.2	11359.5	8373.7	5232.2
75°	964.7	975.8	1643.0	3591.9	7156.0	11253.9	11329.0	10333.7	7873.3	4325.9	1784.8
77.5°	353.1	353.1	544.9	1348.4	3569.7	7103.2	7097.6	6344.2	3986.7	1465.1	417.0
80°	183.5	191.8	283.6	550.5	1545.7	3700.3	3839.3	3105.4	1515.2	617.2	122.3
82.5°	75.1	83.4	155.7	283.6	742.3	1298.3	1420.6	1217.7	658.9	430.9	55.6
85°	22.2	25.0	75.1	158.5	291.9	325.3	361.4	408.7	414.2	333.6	25.0
87.5°	2.8	2.8	30.6	52.8	63.9	69.5	80.6	80.6	211.3	233.5	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1909.9	1896.0	1873.8	1823.8	1812.6	1776.5	1773.7	1740.4	1751.5	1729.2	1720.9
5°	1896.0	1865.5	1804.3	1765.4	1726.5	1701.4	1684.7	1670.8	1668.1	1656.9	1651.4
7.5°	1921.1	1879.4	1784.8	1723.7	1656.9	1634.7	1598.6	1595.8	1576.3	1556.9	1556.9
10°	2004.5	1929.4	1826.5	1723.7	1637.5	1565.2	1481.8	1420.6	1398.4	1348.4	1353.9
12.5°	2071.2	2004.5	1854.3	1748.7	1618.0	1454.0	1270.5	1128.7	1062.0	998.1	1023.1
15°	2165.7	2068.4	1907.2	1754.3	1543.0	1259.4	959.1	800.7	739.5	725.6	722.8
17.5°	2268.6	2165.7	1973.9	1740.4	1390.1	973.0	706.1	614.4	625.5	642.2	639.4
20°	2382.6	2257.5	2023.9	1693.1	1148.2	706.1	578.3	575.5	592.2	617.2	622.7
22.5°	2502.1	2393.7	2085.1	1551.3	856.3	567.1	556.0	556.0	567.1	597.7	592.2
25°	2635.5	2491.0	2115.7	1331.7	614.4	522.7	528.2	539.3	544.9	569.9	572.7
27.5°	2738.4	2599.4	2124.0	1067.6	500.4	483.7	497.6	511.5	519.9	539.3	547.7
30°	2832.9	2735.6	2079.5	795.1	458.7	450.4	455.9	475.4	492.1	508.8	508.8
32.5°	2952.5	2813.5	1976.7	564.4	433.7	419.8	417.0	425.4	444.8	464.3	464.3
35°	3074.8	2944.1	1812.6	453.2	411.5	392.0	380.9	372.5	380.9	394.8	405.9
37.5°	3252.7	3141.5	1606.9	417.0	394.8	367.0	344.7	325.3	311.4	308.6	316.9
40°	3505.7	3363.9	1342.8	392.0	375.3	342.0	308.6	275.2	244.7	225.2	228.0
42.5°	3889.4	3692.0	1056.4	378.1	361.4	314.2	266.9	219.6	180.7	161.2	161.2
45°	4437.1	4125.7	775.7	364.2	344.7	280.8	219.6	164.0	125.1	114.0	116.8
47.5°	5262.8	4648.4	556.0	342.0	322.5	244.7	172.4	116.8	91.7	86.2	89.0
50°	6341.4	5268.3	433.7	316.9	294.7	205.7	127.9	86.2	72.3	69.5	72.3
52.5°	7472.9	5893.8	380.9	294.7	253.0	164.0	94.5	69.5	61.2	58.4	61.2
55°	8440.4	6297.0	330.8	261.3	202.9	122.3	75.1	61.2	52.8	44.5	44.5
57.5°	9419.0	6499.9	261.3	216.8	150.1	91.7	63.9	52.8	44.5	36.1	33.4
60°	10214.1	6644.5	186.3	161.2	105.6	72.3	55.6	47.3	36.1	27.8	25.0
62.5°	10736.8	6230.2	136.2	122.3	77.8	61.2	47.3	38.9	27.8	19.5	19.5
65°	10478.3	5657.5	105.6	86.2	58.4	47.3	38.9	27.8	19.5	11.1	8.3
67.5°	9402.3	4609.4	86.2	63.9	44.5	36.1	30.6	22.2	11.1	2.8	2.8
70°	7014.2	3377.8	69.5	47.3	36.1	27.8	22.2	13.9	5.6	2.8	0.0
72.5°	3836.6	1848.8	55.6	38.9	27.8	22.2	16.7	11.1	5.6	0.0	0.0
75°	1267.7	492.1	41.7	27.8	16.7	13.9	11.1	8.3	2.8	0.0	0.0
77.5°	305.8	127.9	33.4	25.0	13.9	8.3	5.6	2.8	2.8	0.0	0.0
80°	94.5	52.8	25.0	16.7	11.1	8.3	2.8	0.0	0.0	0.0	0.0
82.5°	38.9	25.0	11.1	11.1	8.3	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.5	13.9	8.3	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.6	2.8	2.8	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)