

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: P483526

Luminaire Tested: **IFLD-L-SA7C-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483526
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

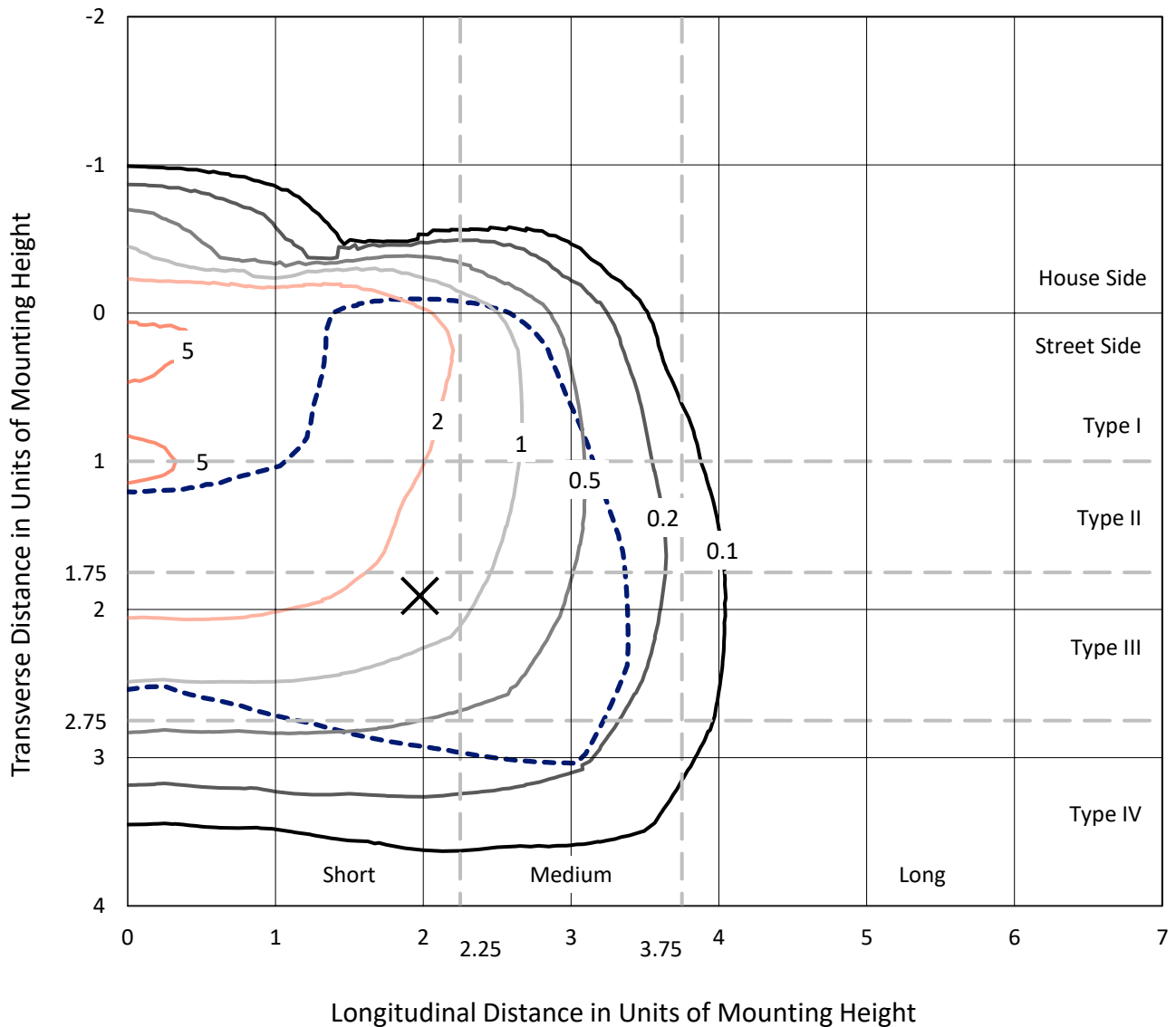
Lumens per Lamp: N/A
Luminaire Lumens: 27354.4 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

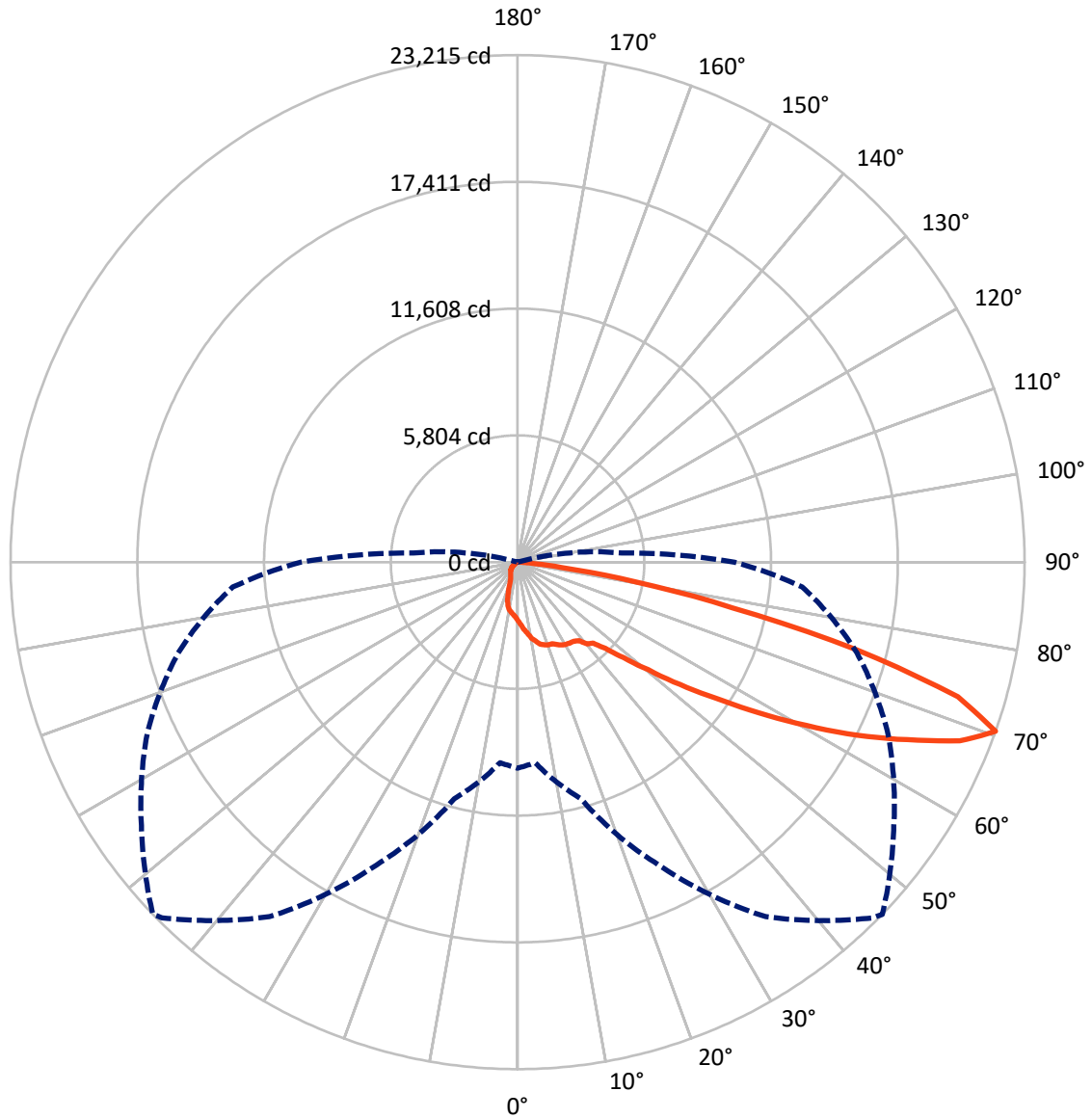
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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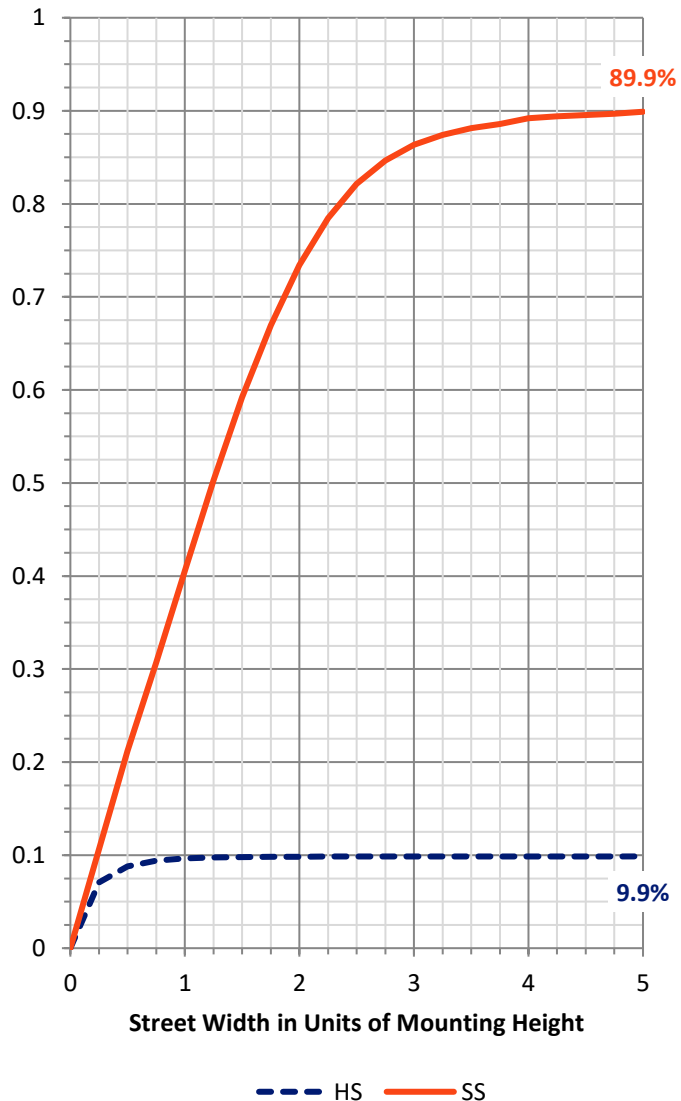
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2721.8	0.0	2721.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	24632.6	0.0	24632.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	27354.4	0.0	27354.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	1.0
10°-20°	808.6	3.0
20°-30°	1295.2	4.7
30°-40°	1848.8	6.8
40°-50°	3192.3	11.7
50°-60°	6112.0	22.3
60°-70°	9050.8	33.1
70°-80°	4482.8	16.4
80°-90°	296.2	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°	27354.4	100.0
0°-180°	27354.4	100.0

Coefficient of Utilization

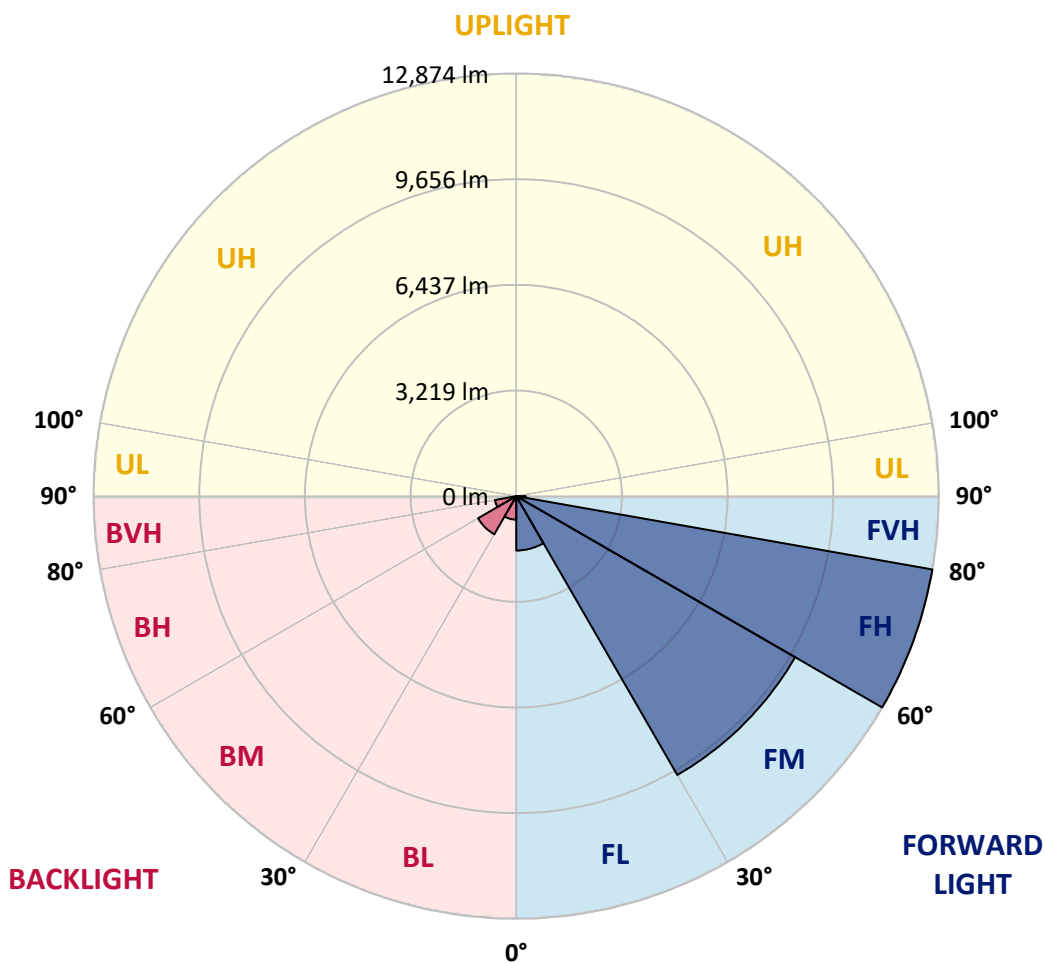


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1656.5	6.1			
FM (30°-60°)	9809.2	35.9			
FH (60°-80°)	12874.4	47.1			G5
FVH (80°-90°)	292.4	1.1			G3/500
BL (0°-30°)	715.1	2.6	B2/1000		
BM (30°-60°)	1343.8	4.9	B2/2500		
BH (60°-80°)	659.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4
2.5°	2996.4	2976.7	2945.2	2933.4	2901.9	2886.2	2862.5	2850.7	2807.4	2764.1	2736.5
5°	3362.6	3315.3	3331.1	3283.8	3181.5	3098.8	3094.9	3004.3	2905.9	2827.1	2720.8
7.5°	3732.7	3693.3	3634.3	3567.3	3453.2	3331.1	3295.7	3209.0	3071.2	2933.4	2791.7
10°	4012.3	3984.7	3933.5	3839.0	3681.5	3543.7	3547.7	3402.0	3256.3	3098.8	2905.9
12.5°	4185.5	4197.3	4122.5	4028.0	3890.2	3717.0	3713.0	3614.6	3449.2	3283.8	3055.5
15°	4358.8	4402.1	4287.9	4177.7	4000.5	3874.5	3898.1	3780.0	3618.5	3429.5	3177.5
17.5°	4386.3	4398.2	4374.5	4213.1	4083.2	3976.8	3980.8	3902.0	3780.0	3575.2	3358.7
20°	4339.1	4331.2	4303.7	4185.5	4098.9	4035.9	4039.8	4020.2	3953.2	3787.8	3492.5
22.5°	4201.3	4201.3	4165.8	4087.1	4047.7	4106.8	4059.5	4134.3	4063.5	3965.0	3720.9
25°	4091.0	4134.3	4114.7	4063.5	4079.2	4158.0	4181.6	4252.5	4240.7	4118.6	3878.4
27.5°	4209.2	4158.0	4169.8	4110.7	4169.8	4287.9	4299.7	4350.9	4347.0	4248.5	4020.2
30°	4287.9	4335.2	4244.6	4114.7	4177.7	4378.5	4370.6	4437.5	4469.0	4350.9	4154.0
32.5°	4539.9	4500.5	4425.7	4252.5	4260.3	4374.5	4410.0	4496.6	4516.3	4445.4	4284.0
35°	5055.7	4996.6	4669.8	4410.0	4370.6	4425.7	4449.3	4618.7	4654.1	4575.3	4421.8
37.5°	5851.1	5717.2	5323.5	4748.6	4571.4	4559.6	4559.6	4784.0	4917.9	4736.8	4626.5
40°	6989.0	6800.0	6374.8	5374.6	4835.2	4882.5	4929.7	5051.8	5036.0	4917.9	4894.3
42.5°	8438.0	8292.3	7831.6	6426.0	5339.2	5103.0	5063.6	5229.0	5477.0	5429.8	5414.0
45°	9646.8	9654.7	9359.4	7867.1	6209.4	5610.9	5638.5	5764.5	6181.8	6146.4	6142.5
47.5°	10528.8	10418.5	10375.2	9257.0	7477.3	6575.6	6536.2	6622.8	7166.2	7390.6	7493.0
50°	11332.0	11257.2	11154.9	10607.5	9001.1	7784.4	7745.0	7752.9	8583.7	8898.7	9150.7
52.5°	12328.2	12422.7	12084.1	11749.4	10973.7	9355.4	9312.1	9158.6	10190.2	10623.3	10922.5
55°	13556.7	13379.5	12997.6	13170.8	12859.8	11052.5	10973.7	10792.6	12021.1	12202.2	12517.2
57.5°	13828.4	13694.5	14088.3	14702.5	15001.8	13044.8	13013.3	12686.5	13560.6	13395.3	14285.1
60°	14505.6	14541.1	15088.4	16309.0	16828.7	15344.3	15190.8	14615.9	15052.9	15084.4	16033.4
62.5°	15202.6	15119.9	16344.4	17517.8	18317.1	17521.7	17470.6	16328.7	16824.8	16423.2	17679.2
65°	14690.7	14816.7	16568.9	18533.7	20246.5	19651.9	19608.6	17978.5	18250.2	17750.1	18348.6
67.5°	12871.6	12615.7	15068.7	18069.0	21238.7	21884.5	21837.2	19777.9	19053.4	17742.2	16958.7
70°	9434.2	9213.7	11213.9	15301.0	19817.3	23026.3	23215.3	21030.0	18726.6	16088.5	13084.2
72.5°	4622.6	4626.5	6284.2	10375.2	15679.0	20986.7	21081.2	19281.8	16088.5	11859.7	7410.3
75°	1366.3	1382.1	2327.0	5087.2	10135.0	15938.9	16045.2	14635.6	11150.9	6126.7	2527.9
77.5°	500.1	500.1	771.7	1909.7	5055.7	10060.2	10052.4	8985.3	5646.3	2075.0	590.6
80°	259.9	271.7	401.6	779.6	2189.2	5240.8	5437.6	4398.2	2145.9	874.1	173.2
82.5°	106.3	118.1	220.5	401.6	1051.3	1838.8	2012.0	1724.6	933.2	610.3	78.7
85°	31.5	35.4	106.3	224.4	413.4	460.7	511.9	578.8	586.7	472.5	35.4
87.5°	3.9	3.9	43.3	74.8	90.6	98.4	114.2	114.2	299.2	330.7	19.7
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°	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4
2.5°	2705.0	2685.4	2653.9	2583.0	2567.2	2516.0	2512.1	2464.9	2480.6	2449.1	2437.3
5°	2685.4	2642.0	2555.4	2500.3	2445.2	2409.7	2386.1	2366.4	2362.5	2346.7	2338.9
7.5°	2720.8	2661.7	2527.9	2441.2	2346.7	2315.2	2264.0	2260.1	2232.5	2205.0	2205.0
10°	2838.9	2732.6	2586.9	2441.2	2319.2	2216.8	2098.7	2012.0	1980.5	1909.7	1917.5
12.5°	2933.4	2838.9	2626.3	2476.7	2291.6	2059.3	1799.4	1598.6	1504.1	1413.6	1449.0
15°	3067.3	2929.5	2701.1	2484.5	2185.3	1783.7	1358.4	1134.0	1047.4	1027.7	1023.7
17.5°	3213.0	3067.3	2795.6	2464.9	1968.7	1378.1	1000.1	870.2	885.9	909.6	905.6
20°	3374.4	3197.2	2866.5	2397.9	1626.2	1000.1	819.0	815.1	838.7	874.1	882.0
22.5°	3543.7	3390.2	2953.1	2197.1	1212.7	803.2	787.5	787.5	803.2	846.6	838.7
25°	3732.7	3528.0	2996.4	1886.0	870.2	740.2	748.1	763.9	771.7	807.2	811.1
27.5°	3878.4	3681.5	3008.2	1512.0	708.7	685.1	704.8	724.5	736.3	763.9	775.7
30°	4012.3	3874.5	2945.2	1126.1	649.7	637.9	645.7	673.3	696.9	720.6	720.6
32.5°	4181.6	3984.7	2799.5	799.3	614.2	594.6	590.6	602.4	630.0	657.6	657.6
35°	4354.8	4169.8	2567.2	641.8	582.7	555.2	539.4	527.6	539.4	559.1	574.9
37.5°	4606.8	4449.3	2275.9	590.6	559.1	519.7	488.2	460.7	441.0	437.1	448.9
40°	4965.1	4764.3	1901.8	555.2	531.6	484.3	437.1	389.8	346.5	318.9	322.9
42.5°	5508.5	5229.0	1496.2	535.5	511.9	444.9	378.0	311.1	255.9	228.4	228.4
45°	6284.2	5843.2	1098.6	515.8	488.2	397.7	311.1	232.3	177.2	161.4	165.4
47.5°	7453.6	6583.4	787.5	484.3	456.7	346.5	244.1	165.4	129.9	122.1	126.0
50°	8981.4	7461.5	614.2	448.9	417.4	291.4	181.1	122.1	102.4	98.4	102.4
52.5°	10583.9	8347.4	539.4	417.4	358.3	232.3	133.9	98.4	86.6	82.7	86.6
55°	11954.2	8918.4	468.6	370.1	287.4	173.2	106.3	86.6	74.8	63.0	63.0
57.5°	13340.1	9205.8	370.1	307.1	212.6	129.9	90.6	74.8	63.0	51.2	47.2
60°	14466.3	9410.6	263.8	228.4	149.6	102.4	78.7	66.9	51.2	39.4	35.4
62.5°	15206.5	8823.9	192.9	173.2	110.2	86.6	66.9	55.1	39.4	27.6	27.6
65°	14840.3	8012.8	149.6	122.1	82.7	66.9	55.1	39.4	27.6	15.7	11.8
67.5°	13316.5	6528.3	122.1	90.6	63.0	51.2	43.3	31.5	15.7	3.9	3.9
70°	9934.2	4784.0	98.4	66.9	51.2	39.4	31.5	19.7	7.9	3.9	0.0
72.5°	5433.7	2618.4	78.7	55.1	39.4	31.5	23.6	15.7	7.9	0.0	0.0
75°	1795.5	696.9	59.1	39.4	23.6	19.7	15.7	11.8	3.9	0.0	0.0
77.5°	433.1	181.1	47.2	35.4	19.7	11.8	7.9	3.9	3.9	0.0	0.0
80°	133.9	74.8	35.4	23.6	15.7	11.8	3.9	0.0	0.0	0.0	0.0
82.5°	55.1	35.4	15.7	15.7	11.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.6	19.7	11.8	7.9	7.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	7.9	3.9	3.9	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)