

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: P483531

Luminaire Tested: **IFLD-L-SA8C-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483531  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-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**

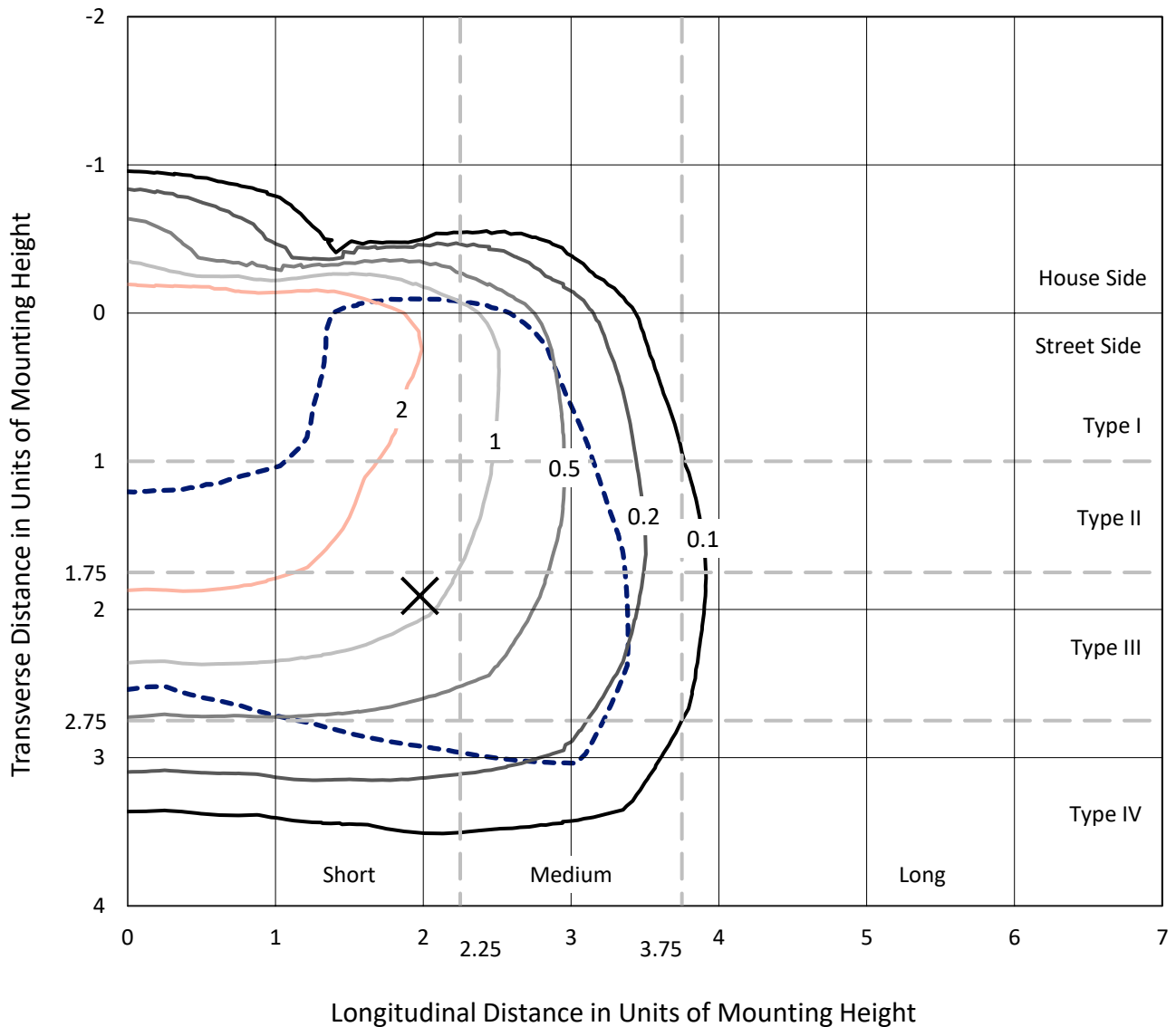
Lumens per Lamp: N/A  
Luminaire Lumens: 31262.3 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3  
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

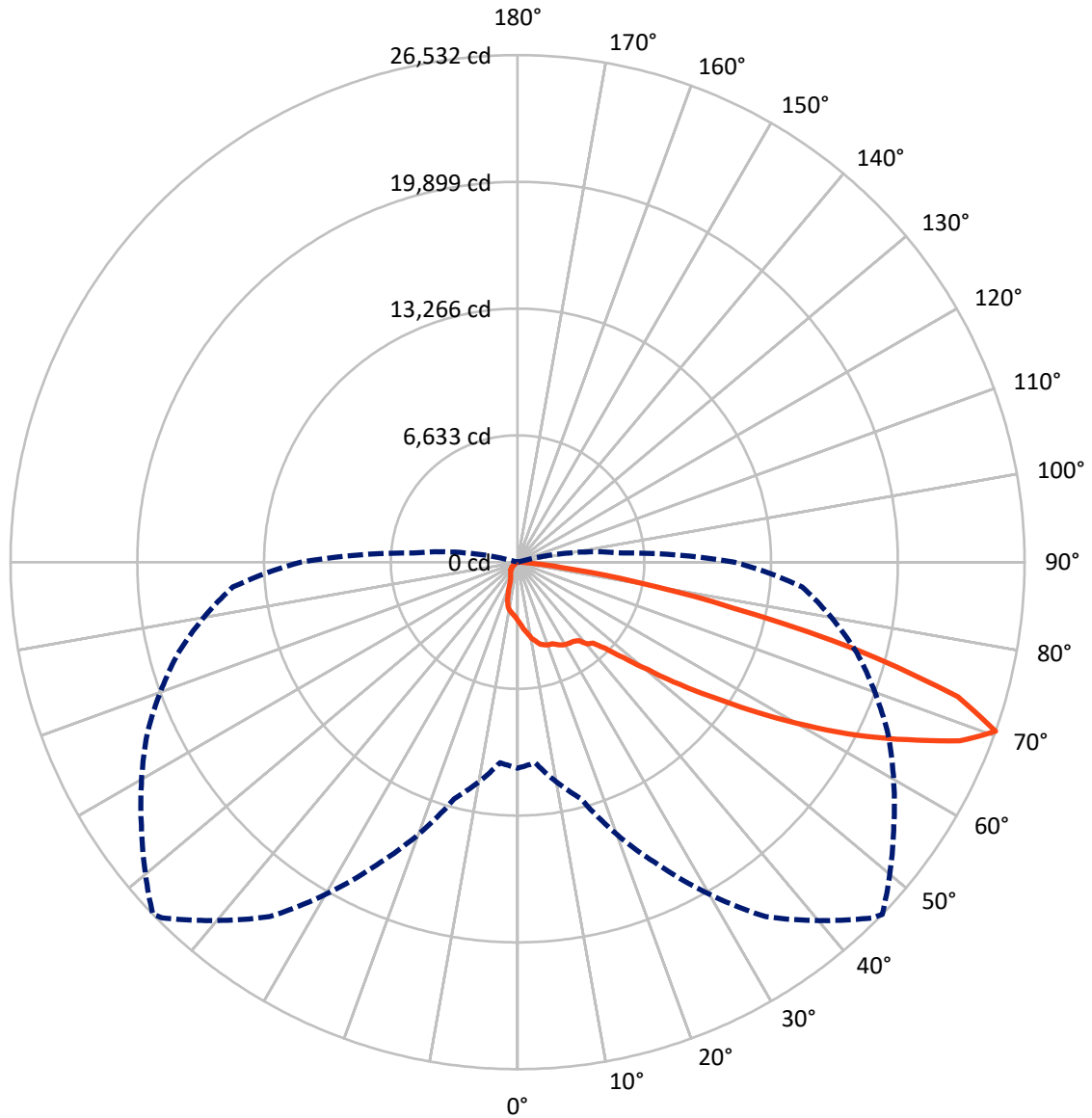
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 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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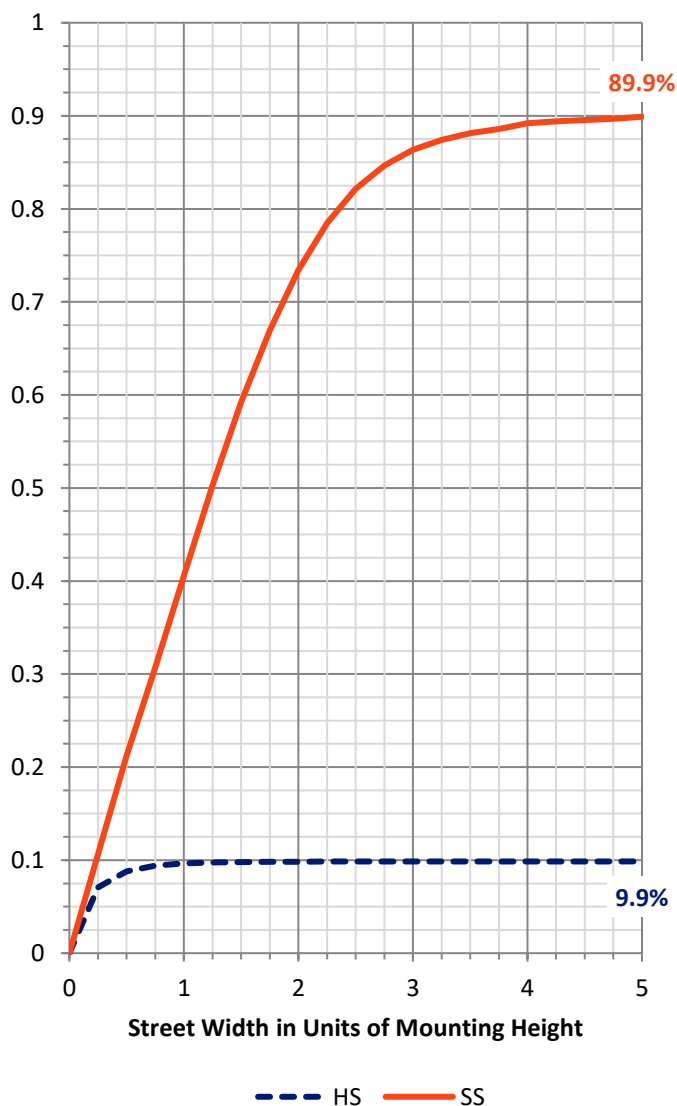
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3110.7	0.0	3110.7
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	28151.6	0.0	28151.6
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	31262.3	0.0	31262.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	1.0
10°-20°	924.1	3.0
20°-30°	1480.3	4.7
30°-40°	2112.9	6.8
40°-50°	3648.4	11.7
50°-60°	6985.1	22.3
60°-70°	10343.8	33.1
70°-80°	5123.2	16.4
80°-90°	338.5	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°	31262.3	100.0
0°-180°	31262.3	100.0

**Coefficient of Utilization**

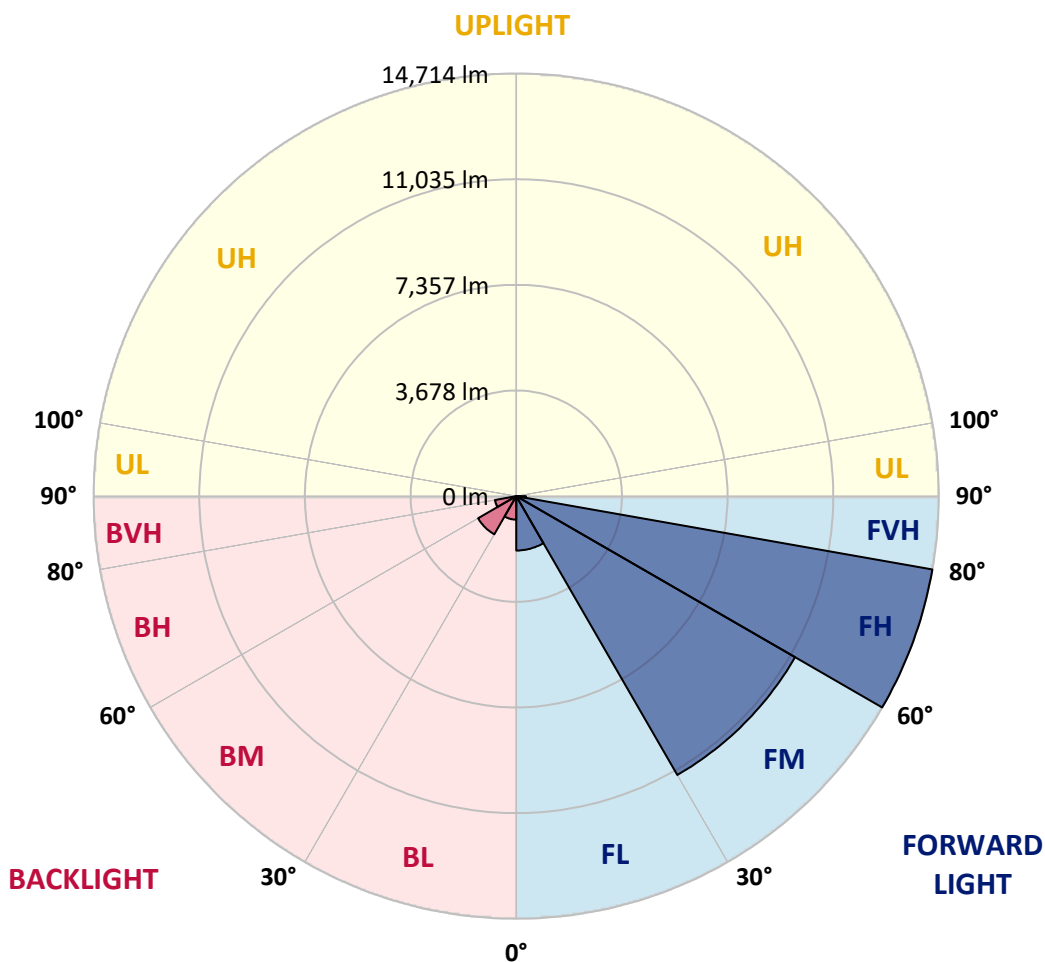


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.2	6.1			
FM (30°-60°)	11210.6	35.9			
FH (60°-80°)	14713.6	47.1			G5
FVH (80°-90°)	334.2	1.1			G3/500
BL (0°-30°)	817.2	2.6	B2/1000		
BM (30°-60°)	1535.8	4.9	B2/2500		
BH (60°-80°)	753.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.3	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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3424.5	3402.0	3366.0	3352.5	3316.5	3298.5	3271.5	3258.0	3208.5	3159.0	3127.5
5°	3843.0	3789.0	3807.0	3753.0	3636.0	3541.5	3537.0	3433.5	3321.0	3231.0	3109.5
7.5°	4266.0	4221.0	4153.5	4077.0	3946.5	3807.0	3766.5	3667.5	3510.0	3352.5	3190.5
10°	4585.5	4554.0	4495.5	4387.5	4207.5	4050.0	4054.5	3888.0	3721.5	3541.5	3321.0
12.5°	4783.5	4797.0	4711.5	4603.5	4446.0	4248.0	4243.5	4131.0	3942.0	3753.0	3492.0
15°	4981.5	5031.0	4900.5	4774.5	4572.0	4428.0	4455.0	4320.0	4135.5	3919.5	3631.5
17.5°	5013.0	5026.5	4999.5	4815.0	4666.5	4545.0	4549.5	4459.5	4320.0	4086.0	3838.5
20°	4959.0	4950.0	4918.5	4783.5	4684.5	4612.5	4617.0	4594.5	4518.0	4329.0	3991.5
22.5°	4801.5	4801.5	4761.0	4671.0	4626.0	4693.5	4639.5	4725.0	4644.0	4531.5	4252.5
25°	4675.5	4725.0	4702.5	4644.0	4662.0	4752.0	4779.0	4860.0	4846.5	4707.0	4432.5
27.5°	4810.5	4752.0	4765.5	4698.0	4765.5	4900.5	4914.0	4972.5	4968.0	4855.5	4594.5
30°	4900.5	4954.5	4851.0	4702.5	4774.5	5004.0	4995.0	5071.5	5107.5	4972.5	4747.5
32.5°	5188.5	5143.5	5058.0	4860.0	4869.0	4999.5	5040.0	5139.0	5161.5	5080.5	4896.0
35°	5778.0	5710.5	5337.0	5040.0	4995.0	5058.0	5085.0	5278.5	5319.0	5229.0	5053.5
37.5°	6687.0	6534.0	6084.0	5427.0	5224.5	5211.0	5211.0	5467.5	5620.5	5413.5	5287.5
40°	7987.5	7771.5	7285.5	6142.5	5526.0	5580.0	5634.0	5773.5	5755.5	5620.5	5593.5
42.5°	9643.5	9477.0	8950.5	7344.0	6102.0	5832.0	5787.0	5976.0	6259.5	6205.5	6187.5
45°	11024.9	11033.9	10696.4	8991.0	7096.5	6412.5	6444.0	6588.0	7065.0	7024.5	7020.0
47.5°	12032.9	11906.9	11857.4	10579.4	8545.5	7515.0	7470.0	7569.0	8190.0	8446.5	8563.5
50°	12950.9	12865.4	12748.4	12122.9	10286.9	8896.5	8851.5	8860.5	9810.0	10169.9	10457.9
52.5°	14089.4	14197.4	13810.4	13427.9	12541.4	10691.9	10642.4	10466.9	11645.9	12140.9	12482.9
55°	15493.4	15290.9	14854.4	15052.4	14696.9	12631.4	12541.4	12334.4	13738.4	13945.4	14305.4
57.5°	15803.9	15650.9	16100.9	16802.9	17144.9	14908.4	14872.4	14498.9	15497.9	15308.9	16325.9
60°	16577.9	16618.4	17243.9	18638.9	19232.9	17536.4	17360.9	16703.9	17203.4	17239.4	18323.9
62.5°	17374.4	17279.9	18679.4	20020.4	20933.9	20024.9	19966.4	18661.4	19228.4	18769.4	20204.9
65°	16789.4	16933.4	18935.9	21181.4	23138.9	22459.4	22409.9	20546.9	20857.4	20285.9	20969.9
67.5°	14710.4	14417.9	17221.4	20650.4	24272.9	25010.9	24956.9	22603.4	21775.4	20276.9	19381.4
70°	10781.9	10529.9	12815.9	17486.9	22648.4	26315.9	26531.9	24034.4	21401.9	18386.9	14953.4
72.5°	5283.0	5287.5	7182.0	11857.4	17918.9	23984.9	24092.9	22036.4	18386.9	13553.9	8469.0
75°	1561.5	1579.5	2659.5	5814.0	11582.9	18215.9	18337.4	16726.4	12743.9	7002.0	2889.0
77.5°	571.5	571.5	882.0	2182.5	5778.0	11497.4	11488.4	10268.9	6453.0	2371.5	675.0
80°	297.0	310.5	459.0	891.0	2502.0	5989.5	6214.5	5026.5	2452.5	999.0	198.0
82.5°	121.5	135.0	252.0	459.0	1201.5	2101.5	2299.5	1971.0	1066.5	697.5	90.0
85°	36.0	40.5	121.5	256.5	472.5	526.5	585.0	661.5	670.5	540.0	40.5
87.5°	4.5	4.5	49.5	85.5	103.5	112.5	130.5	130.5	342.0	378.0	22.5
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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3091.5	3069.0	3033.0	2952.0	2934.0	2875.5	2871.0	2817.0	2835.0	2799.0	2785.5
5°	3069.0	3019.5	2920.5	2857.5	2794.5	2754.0	2727.0	2704.5	2700.0	2682.0	2673.0
7.5°	3109.5	3042.0	2889.0	2790.0	2682.0	2646.0	2587.5	2583.0	2551.5	2520.0	2520.0
10°	3244.5	3123.0	2956.5	2790.0	2650.5	2533.5	2398.5	2299.5	2263.5	2182.5	2191.5
12.5°	3352.5	3244.5	3001.5	2830.5	2619.0	2353.5	2056.5	1827.0	1719.0	1615.5	1656.0
15°	3505.5	3348.0	3087.0	2839.5	2497.5	2038.5	1552.5	1296.0	1197.0	1174.5	1170.0
17.5°	3672.0	3505.5	3195.0	2817.0	2250.0	1575.0	1143.0	994.5	1012.5	1039.5	1035.0
20°	3856.5	3654.0	3276.0	2740.5	1858.5	1143.0	936.0	931.5	958.5	999.0	1008.0
22.5°	4050.0	3874.5	3375.0	2511.0	1386.0	918.0	900.0	900.0	918.0	967.5	958.5
25°	4266.0	4032.0	3424.5	2155.5	994.5	846.0	855.0	873.0	882.0	922.5	927.0
27.5°	4432.5	4207.5	3438.0	1728.0	810.0	783.0	805.5	828.0	841.5	873.0	886.5
30°	4585.5	4428.0	3366.0	1287.0	742.5	729.0	738.0	769.5	796.5	823.5	823.5
32.5°	4779.0	4554.0	3199.5	913.5	702.0	679.5	675.0	688.5	720.0	751.5	751.5
35°	4977.0	4765.5	2934.0	733.5	666.0	634.5	616.5	603.0	616.5	639.0	657.0
37.5°	5265.0	5085.0	2601.0	675.0	639.0	594.0	558.0	526.5	504.0	499.5	513.0
40°	5674.5	5445.0	2173.5	634.5	607.5	553.5	499.5	445.5	396.0	364.5	369.0
42.5°	6295.5	5976.0	1710.0	612.0	585.0	508.5	432.0	355.5	292.5	261.0	261.0
45°	7182.0	6678.0	1255.5	589.5	558.0	454.5	355.5	265.5	202.5	184.5	189.0
47.5°	8518.5	7524.0	900.0	553.5	522.0	396.0	279.0	189.0	148.5	139.5	144.0
50°	10264.4	8527.5	702.0	513.0	477.0	333.0	207.0	139.5	117.0	112.5	117.0
52.5°	12095.9	9540.0	616.5	477.0	409.5	265.5	153.0	112.5	99.0	94.5	99.0
55°	13661.9	10192.4	535.5	423.0	328.5	198.0	121.5	99.0	85.5	72.0	72.0
57.5°	15245.9	10520.9	423.0	351.0	243.0	148.5	103.5	85.5	72.0	58.5	54.0
60°	16532.9	10754.9	301.5	261.0	171.0	117.0	90.0	76.5	58.5	45.0	40.5
62.5°	17378.9	10084.5	220.5	198.0	126.0	99.0	76.5	63.0	45.0	31.5	31.5
65°	16960.4	9157.5	171.0	139.5	94.5	76.5	63.0	45.0	31.5	18.0	13.5
67.5°	15218.9	7461.0	139.5	103.5	72.0	58.5	49.5	36.0	18.0	4.5	4.5
70°	11353.4	5467.5	112.5	76.5	58.5	45.0	36.0	22.5	9.0	4.5	0.0
72.5°	6210.0	2992.5	90.0	63.0	45.0	36.0	27.0	18.0	9.0	0.0	0.0
75°	2052.0	796.5	67.5	45.0	27.0	22.5	18.0	13.5	4.5	0.0	0.0
77.5°	495.0	207.0	54.0	40.5	22.5	13.5	9.0	4.5	4.5	0.0	0.0
80°	153.0	85.5	40.5	27.0	18.0	13.5	4.5	0.0	0.0	0.0	0.0
82.5°	63.0	40.5	18.0	18.0	13.5	4.5	0.0	0.0	0.0	0.0	0.0
85°	31.5	22.5	13.5	9.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	9.0	4.5	4.5	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)