

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: P483681

Luminaire Tested: **IFLD-L-SA7B-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483681
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

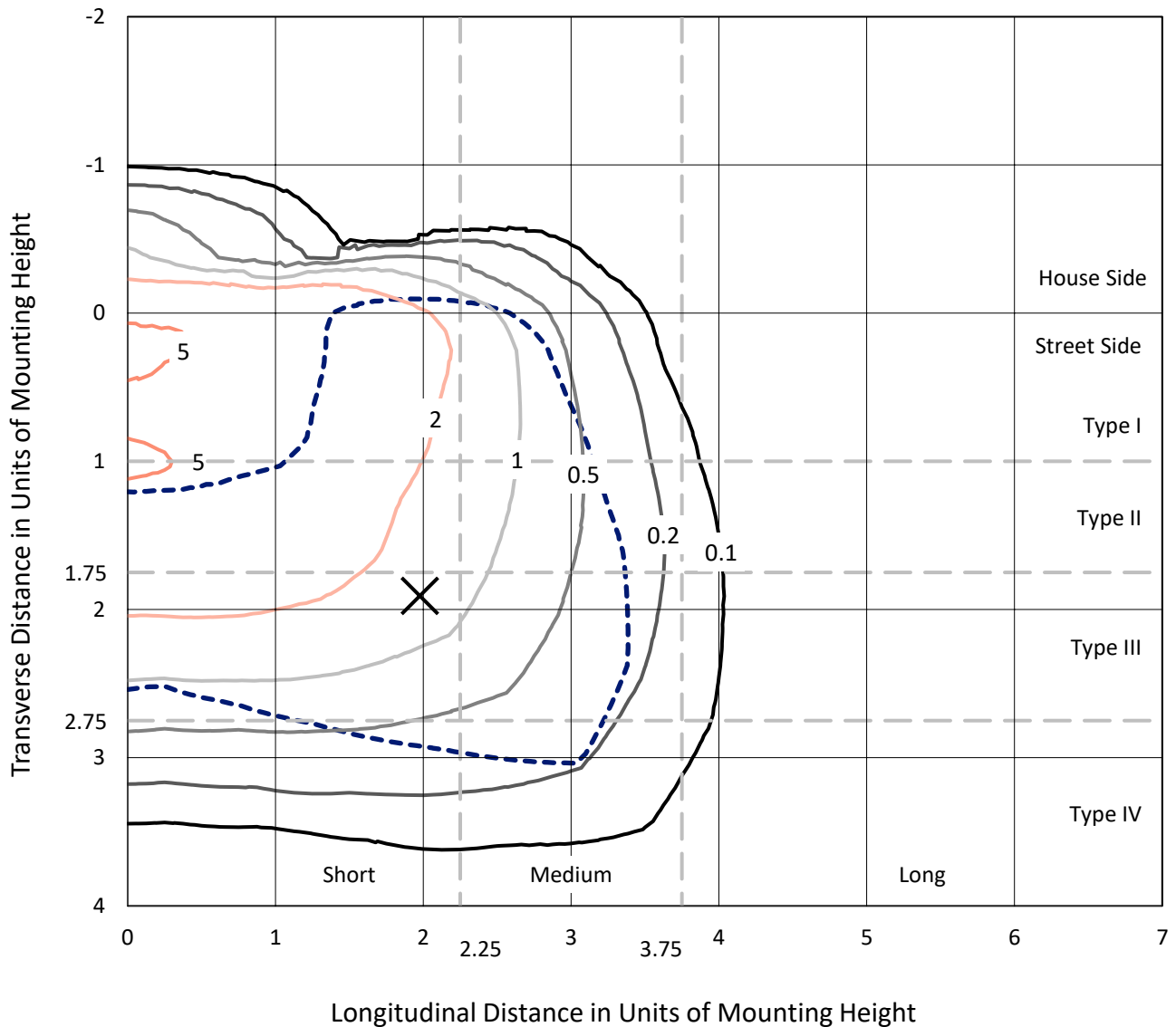
Lumens per Lamp: N/A
Luminaire Lumens: 26877.6 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

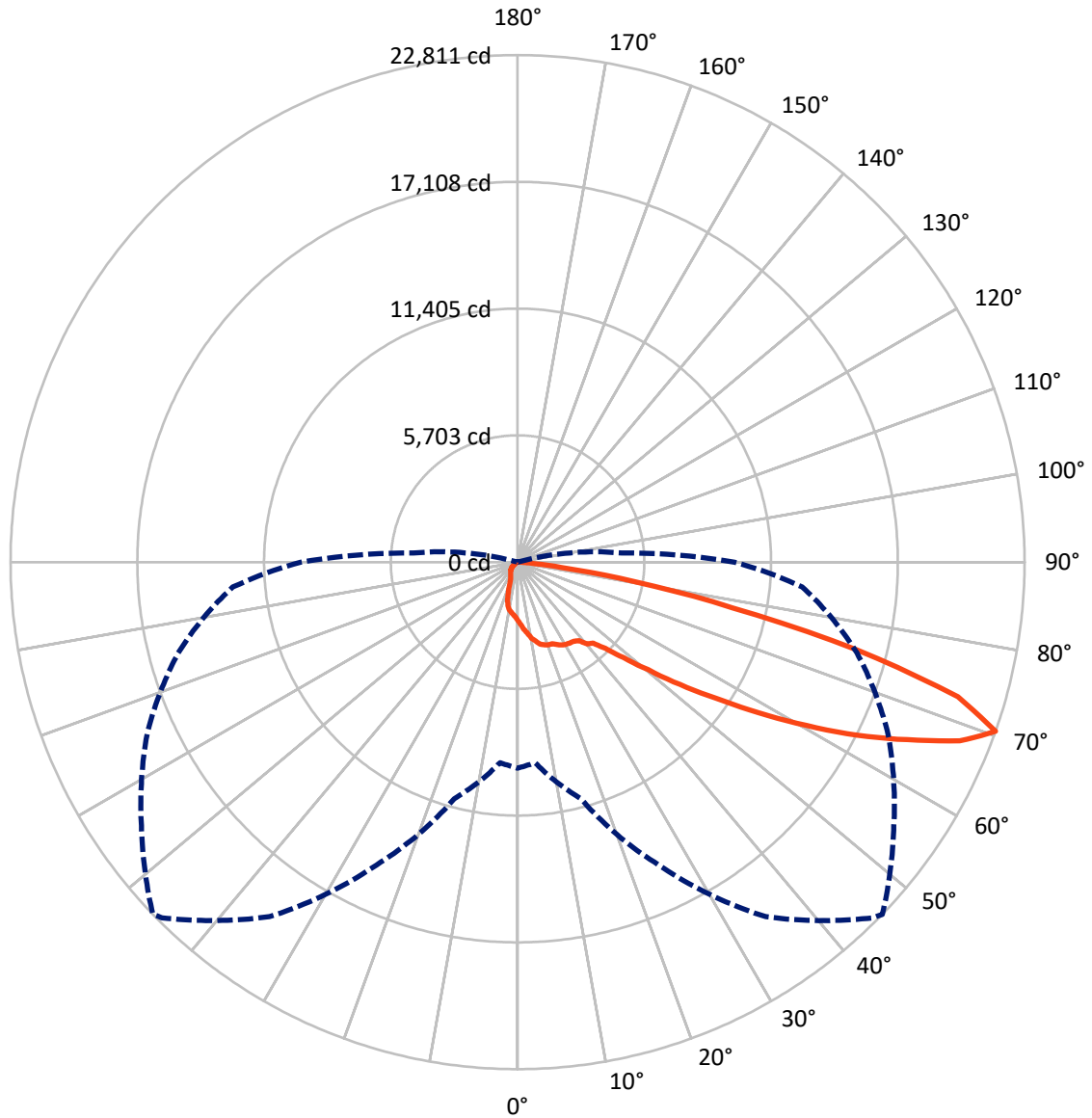
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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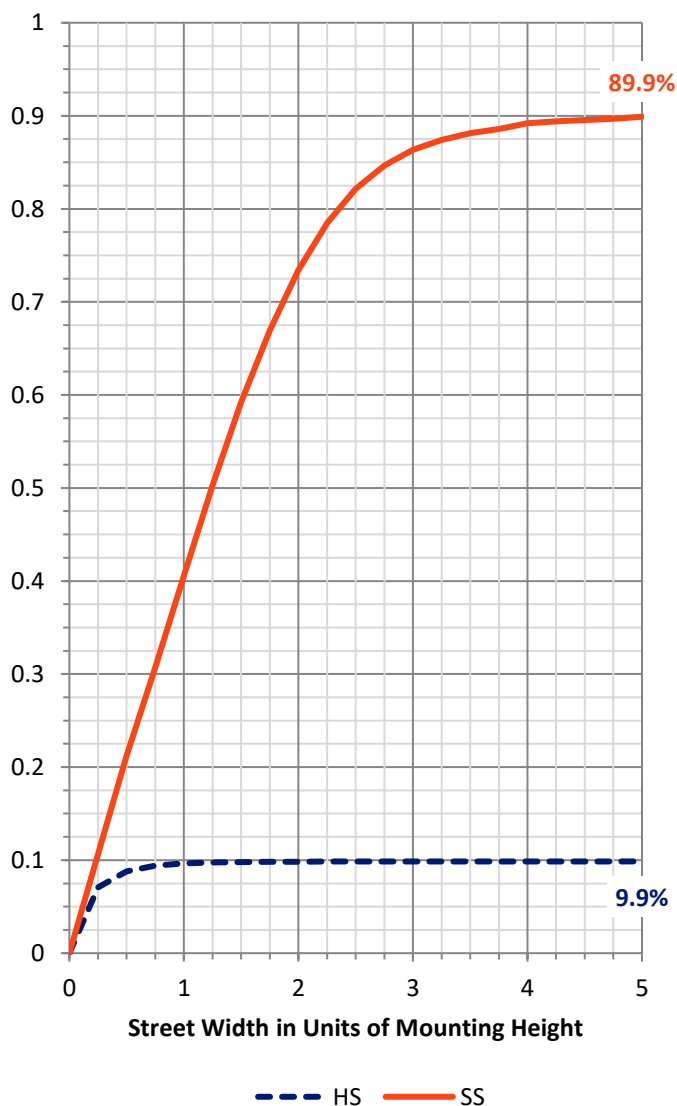
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.4	0.0	2674.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	24203.2	0.0	24203.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	26877.6	0.0	26877.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.0
10°-20°	794.5	3.0
20°-30°	1272.6	4.7
30°-40°	1816.5	6.8
40°-50°	3136.7	11.7
50°-60°	6005.4	22.3
60°-70°	8893.1	33.1
70°-80°	4404.6	16.4
80°-90°	291.1	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°	26877.6	100.0
0°-180°	26877.6	100.0

Coefficient of Utilization

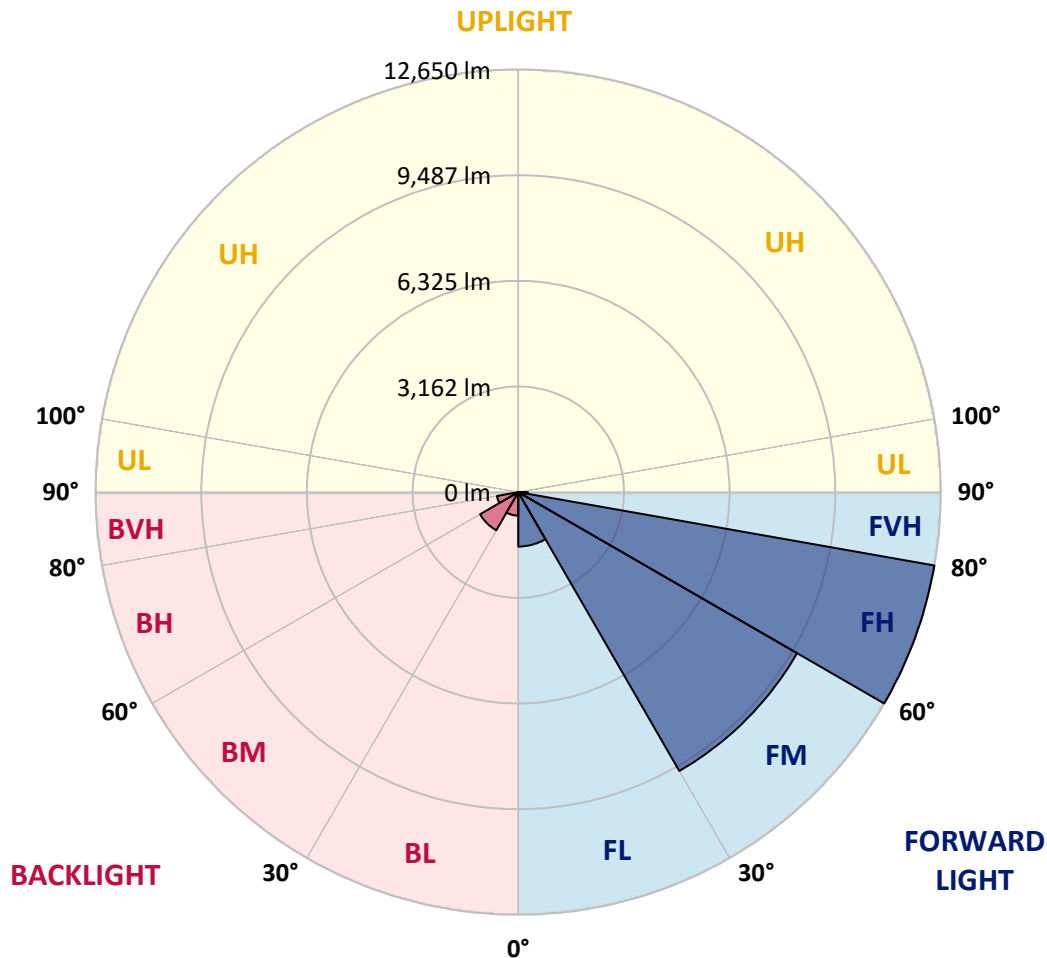


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.6	6.1			
FM (30°-60°)	9638.2	35.9			
FH (60°-80°)	12650.0	47.1			G5
FVH (80°-90°)	287.3	1.1			G3/500
BL (0°-30°)	702.6	2.6	B2/1000		
BM (30°-60°)	1320.4	4.9	B2/2500		
BH (60°-80°)	647.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.7	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5
2.5°	2944.2	2924.8	2893.9	2882.3	2851.3	2835.9	2812.6	2801.0	2758.5	2715.9	2688.8
5°	3304.0	3257.6	3273.0	3226.6	3126.0	3044.8	3040.9	2951.9	2855.2	2777.8	2673.4
7.5°	3667.6	3629.0	3570.9	3505.2	3393.0	3273.0	3238.2	3153.1	3017.7	2882.3	2743.0
10°	3942.3	3915.3	3865.0	3772.1	3617.4	3481.9	3485.8	3342.7	3199.5	3044.8	2855.2
12.5°	4112.6	4124.2	4050.7	3957.8	3822.4	3652.2	3648.3	3551.6	3389.1	3226.6	3002.2
15°	4282.8	4325.4	4213.2	4104.8	3930.7	3806.9	3830.1	3714.1	3555.5	3369.8	3122.1
17.5°	4309.9	4321.5	4298.3	4139.6	4012.0	3907.5	3911.4	3834.0	3714.1	3512.9	3300.1
20°	4263.4	4255.7	4228.6	4112.6	4027.5	3965.5	3969.4	3950.1	3884.3	3721.8	3431.7
22.5°	4128.0	4128.0	4093.2	4015.8	3977.2	4035.2	3988.8	4062.3	3992.6	3895.9	3656.0
25°	4019.7	4062.3	4042.9	3992.6	4008.1	4085.5	4108.7	4178.3	4166.7	4046.8	3810.8
27.5°	4135.8	4085.5	4097.1	4039.1	4097.1	4213.2	4224.8	4275.1	4271.2	4174.5	3950.1
30°	4213.2	4259.6	4170.6	4042.9	4104.8	4302.1	4294.4	4360.2	4391.1	4275.1	4081.6
32.5°	4460.8	4422.1	4348.6	4178.3	4186.1	4298.3	4333.1	4418.2	4437.5	4367.9	4209.3
35°	4967.6	4909.5	4588.4	4333.1	4294.4	4348.6	4371.8	4538.1	4573.0	4495.6	4344.7
37.5°	5749.1	5617.5	5230.7	4665.8	4491.7	4480.1	4480.1	4700.6	4832.2	4654.2	4545.9
40°	6867.2	6681.5	6263.6	5281.0	4750.9	4797.3	4843.8	4963.7	4948.2	4832.2	4809.0
42.5°	8290.9	8147.8	7695.1	6313.9	5246.1	5014.0	4975.3	5137.8	5381.5	5335.1	5319.6
45°	9478.6	9486.4	9196.2	7729.9	6101.1	5513.1	5540.2	5664.0	6074.1	6039.2	6035.4
47.5°	10345.2	10236.9	10194.4	9095.6	7346.9	6460.9	6422.3	6507.4	7041.3	7261.8	7362.4
50°	11134.5	11061.0	10960.4	10422.6	8844.1	7648.7	7610.0	7617.7	8434.0	8743.6	8991.2
52.5°	12113.3	12206.2	11873.4	11544.6	10782.4	9192.3	9149.8	8998.9	10012.5	10438.1	10732.1
55°	13320.4	13146.3	12771.0	12941.2	12635.6	10859.8	10782.4	10604.5	11811.5	11989.5	12299.0
57.5°	13587.3	13455.8	13842.7	14446.2	14740.2	12817.4	12786.5	12465.4	13324.2	13161.8	14036.1
60°	14252.8	14287.6	14825.4	16024.7	16535.4	15076.8	14925.9	14361.1	14790.5	14821.5	15753.9
62.5°	14937.5	14856.3	16059.5	17212.4	17997.8	17216.3	17166.0	16044.0	16531.5	16136.9	17371.0
65°	14434.6	14558.4	16280.0	18210.6	19893.5	19309.3	19266.8	17665.1	17932.0	17440.7	18028.7
67.5°	12647.2	12395.7	14806.0	17754.1	20868.5	21503.0	21456.5	19433.1	18721.3	17432.9	16663.0
70°	9269.7	9053.1	11018.4	15034.3	19471.8	22624.9	22810.6	20663.4	18400.2	15808.0	12856.1
72.5°	4542.0	4545.9	6174.7	10194.4	15405.7	20620.9	20713.7	18945.7	15808.0	11652.9	7281.1
75°	1342.5	1358.0	2286.5	4998.5	9958.4	15661.0	15765.5	14380.4	10956.5	6019.9	2483.8
77.5°	491.3	491.3	758.3	1876.4	4967.6	9884.9	9877.1	8828.7	5547.9	2038.9	580.3
80°	255.3	266.9	394.6	766.0	2151.1	5149.4	5342.9	4321.5	2108.5	858.9	170.2
82.5°	104.5	116.1	216.7	394.6	1033.0	1806.7	1977.0	1694.5	916.9	599.7	77.4
85°	31.0	34.8	104.5	220.5	406.2	452.7	502.9	568.7	576.5	464.3	34.8
87.5°	3.9	3.9	42.6	73.5	89.0	96.7	112.2	112.2	294.0	325.0	19.3
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°	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5	2638.5
2.5°	2657.9	2638.5	2607.6	2538.0	2522.5	2472.2	2468.3	2421.9	2437.4	2406.4	2394.8
5°	2638.5	2596.0	2510.9	2456.7	2402.5	2367.7	2344.5	2325.2	2321.3	2305.8	2298.1
7.5°	2673.4	2615.3	2483.8	2398.7	2305.8	2274.9	2224.6	2220.7	2193.6	2166.5	2166.5
10°	2789.4	2685.0	2541.8	2398.7	2278.7	2178.2	2062.1	1977.0	1946.0	1876.4	1884.1
12.5°	2882.3	2789.4	2580.5	2433.5	2251.7	2023.4	1768.1	1570.7	1477.9	1388.9	1423.7
15°	3013.8	2878.4	2654.0	2441.2	2147.2	1752.6	1334.7	1114.2	1029.1	1009.8	1005.9
17.5°	3157.0	3013.8	2746.9	2421.9	1934.4	1354.1	982.7	855.0	870.5	893.7	889.8
20°	3315.6	3141.5	2816.5	2356.1	1597.8	982.7	804.7	800.8	824.1	858.9	866.6
22.5°	3481.9	3331.1	2901.6	2158.8	1191.6	789.2	773.8	773.8	789.2	831.8	824.1
25°	3667.6	3466.5	2944.2	1853.2	855.0	727.3	735.1	750.6	758.3	793.1	797.0
27.5°	3810.8	3617.4	2955.8	1485.6	696.4	673.2	692.5	711.9	723.5	750.6	762.2
30°	3942.3	3806.9	2893.9	1106.5	638.4	626.8	634.5	661.6	684.8	708.0	708.0
32.5°	4108.7	3915.3	2750.7	785.4	603.5	584.2	580.3	591.9	619.0	646.1	646.1
35°	4278.9	4097.1	2522.5	630.6	572.6	545.5	530.0	518.4	530.0	549.4	564.8
37.5°	4526.5	4371.8	2236.2	580.3	549.4	510.7	479.7	452.7	433.3	429.4	441.0
40°	4878.6	4681.3	1868.6	545.5	522.3	475.9	429.4	383.0	340.5	313.4	317.2
42.5°	5412.5	5137.8	1470.2	526.2	502.9	437.2	371.4	305.6	251.5	224.4	224.4
45°	6174.7	5741.3	1079.4	506.8	479.7	390.8	305.6	228.3	174.1	158.6	162.5
47.5°	7323.7	6468.7	773.8	475.9	448.8	340.5	239.9	162.5	127.7	119.9	123.8
50°	8824.8	7331.4	603.5	441.0	410.1	286.3	178.0	119.9	100.6	96.7	100.6
52.5°	10399.4	8201.9	530.0	410.1	352.1	228.3	131.5	96.7	85.1	81.2	85.1
55°	11745.8	8762.9	460.4	363.7	282.4	170.2	104.5	85.1	73.5	61.9	61.9
57.5°	13107.6	9045.3	363.7	301.8	208.9	127.7	89.0	73.5	61.9	50.3	46.4
60°	14214.1	9246.5	259.2	224.4	147.0	100.6	77.4	65.8	50.3	38.7	34.8
62.5°	14941.4	8670.0	189.6	170.2	108.3	85.1	65.8	54.2	38.7	27.1	27.1
65°	14581.6	7873.1	147.0	119.9	81.2	65.8	54.2	38.7	27.1	15.5	11.6
67.5°	13084.4	6414.5	119.9	89.0	61.9	50.3	42.6	31.0	15.5	3.9	3.9
70°	9761.1	4700.6	96.7	65.8	50.3	38.7	31.0	19.3	7.7	3.9	0.0
72.5°	5339.0	2572.8	77.4	54.2	38.7	31.0	23.2	15.5	7.7	0.0	0.0
75°	1764.2	684.8	58.0	38.7	23.2	19.3	15.5	11.6	3.9	0.0	0.0
77.5°	425.6	178.0	46.4	34.8	19.3	11.6	7.7	3.9	3.9	0.0	0.0
80°	131.5	73.5	34.8	23.2	15.5	11.6	3.9	0.0	0.0	0.0	0.0
82.5°	54.2	34.8	15.5	15.5	11.6	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.1	19.3	11.6	7.7	7.7	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	7.7	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)