

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: P483566

Luminaire Tested: **IFLD-L-SA7D-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

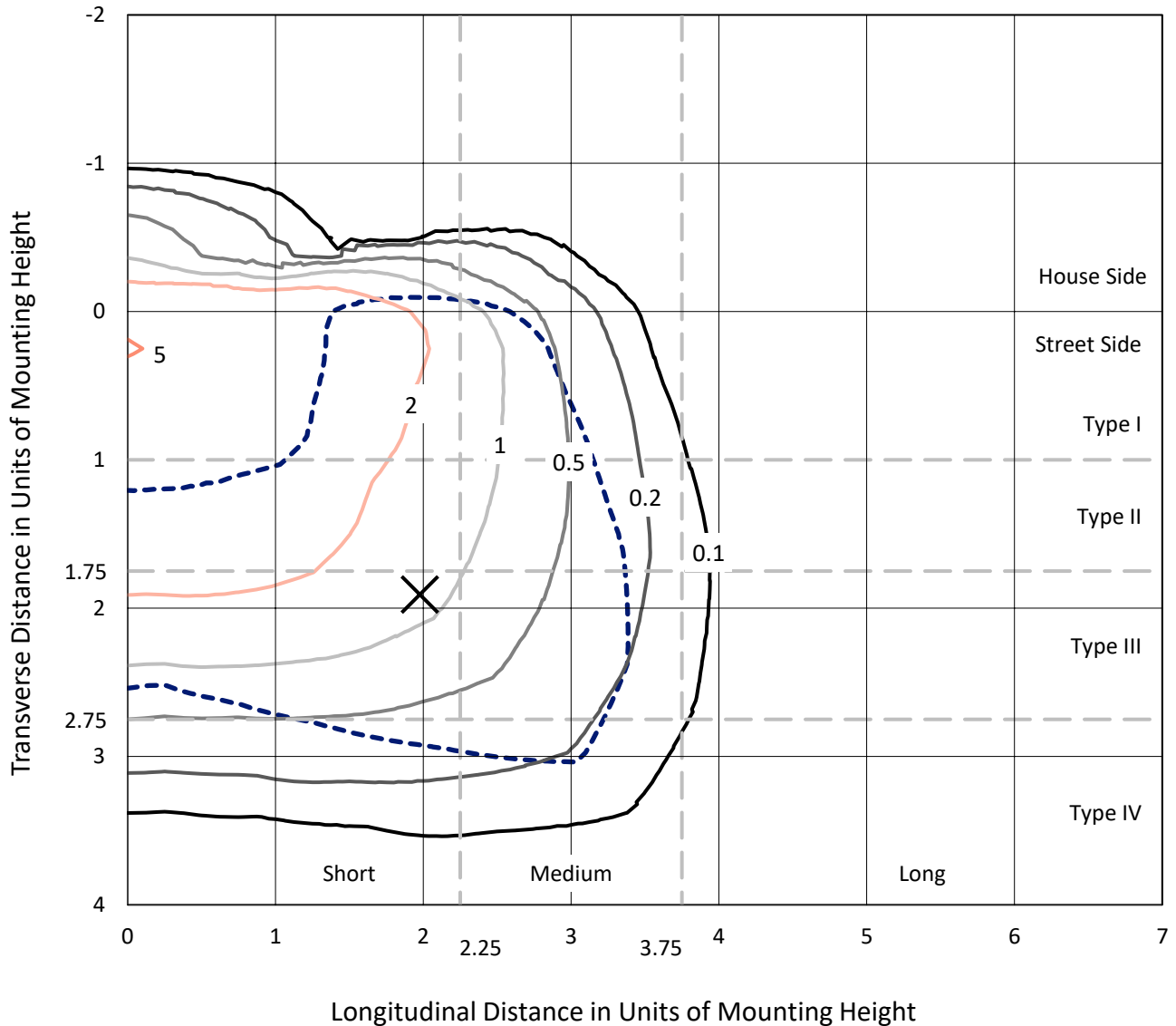
Lumens per Lamp: N/A
Luminaire Lumens: 32773.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

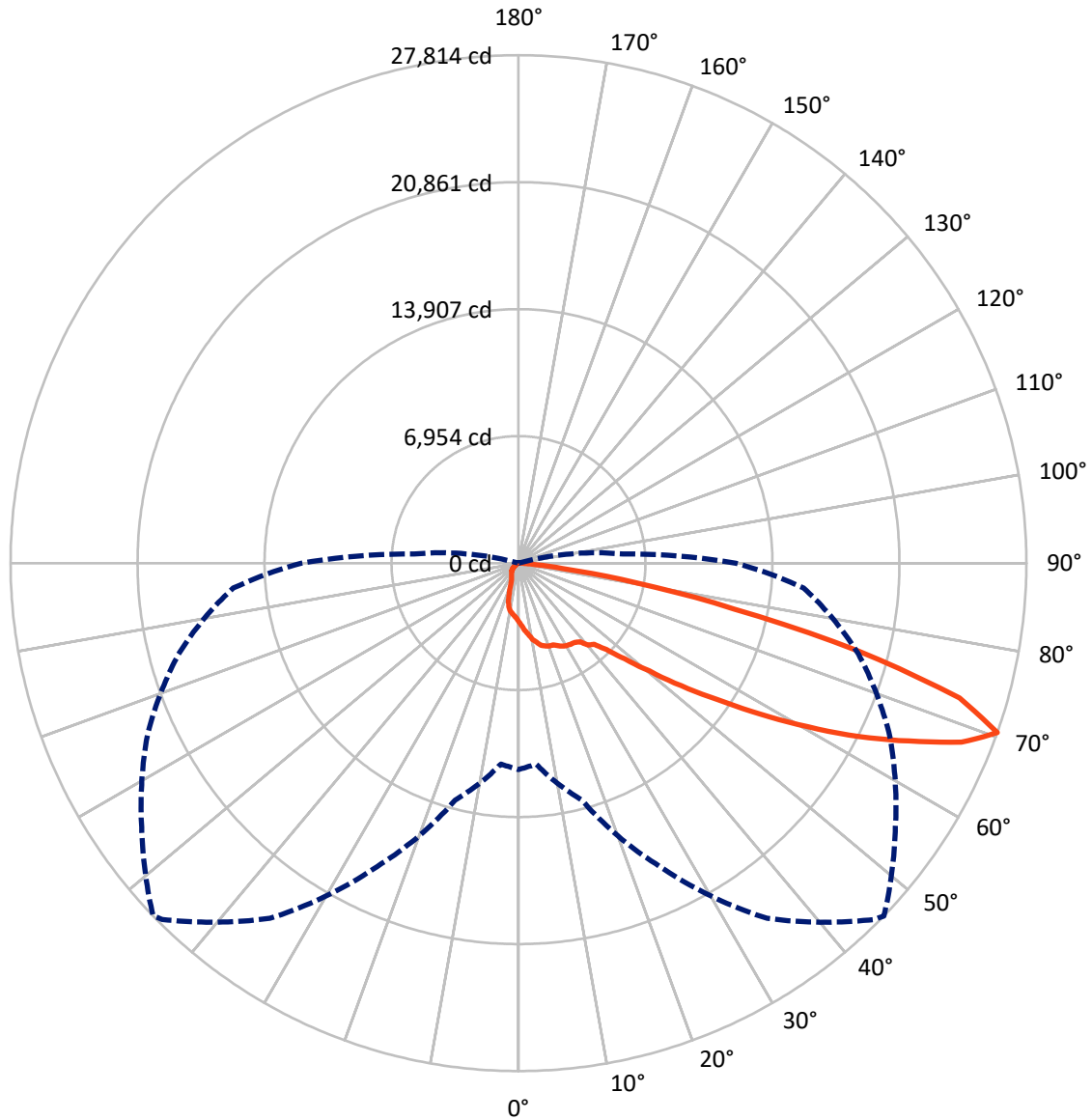
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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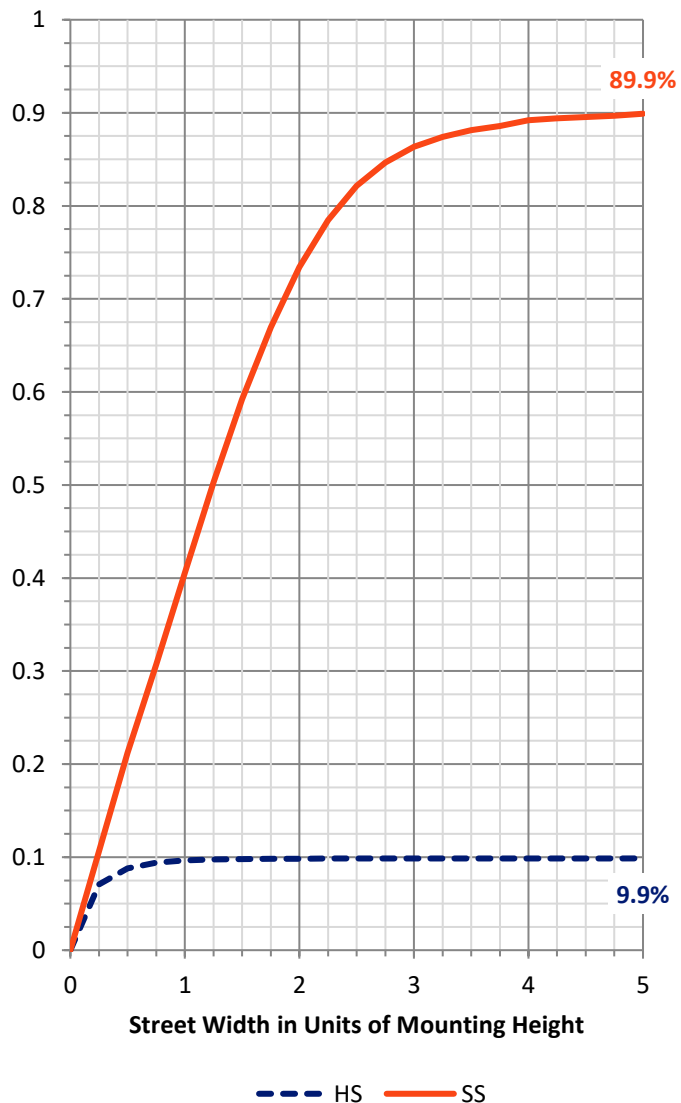
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3261.0	0.0	3261.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29512.3	0.0	29512.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	32773.3	0.0	32773.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	1.0
10°-20°	968.8	3.0
20°-30°	1551.8	4.7
30°-40°	2215.0	6.8
40°-50°	3824.7	11.7
50°-60°	7322.7	22.3
60°-70°	10843.8	33.1
70°-80°	5370.8	16.4
80°-90°	354.9	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°	32773.3	100.0
0°-180°	32773.3	100.0

Coefficient of Utilization



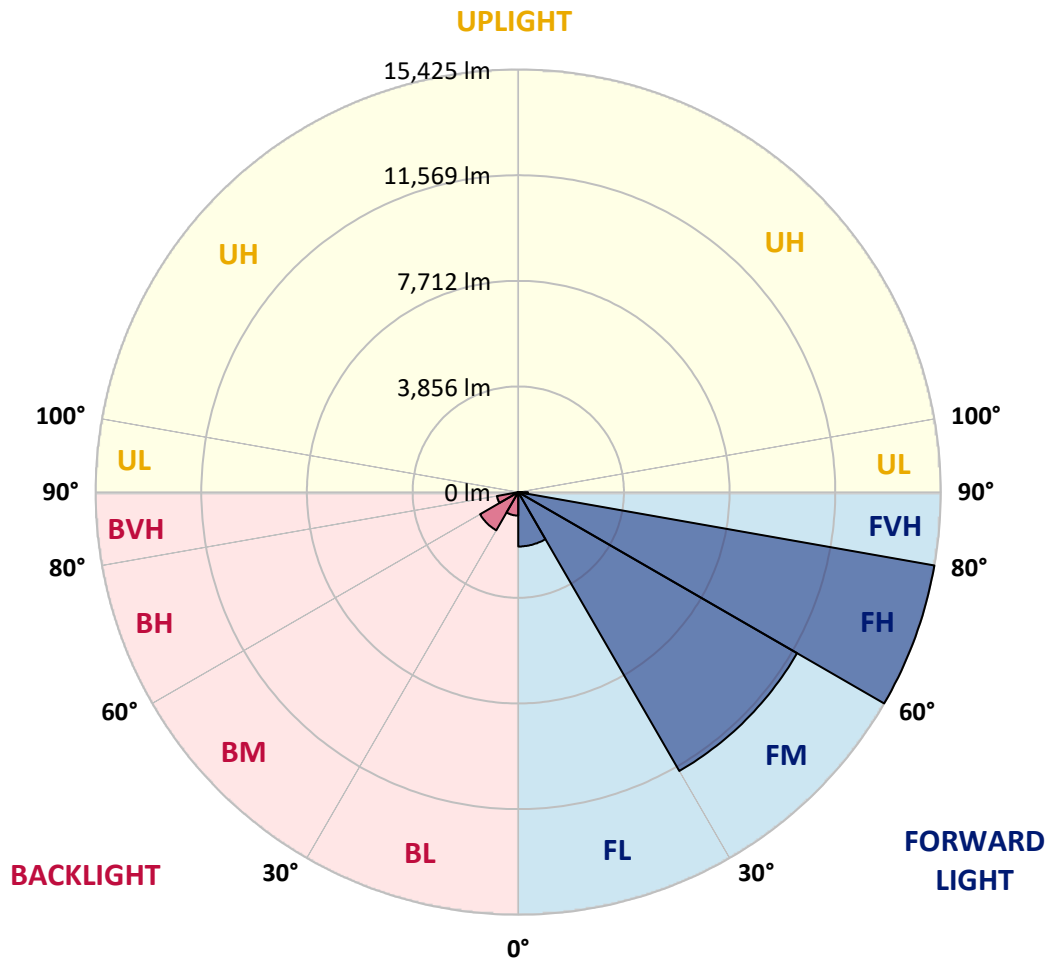
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.7	6.1			
FM (30°-60°)	11752.4	35.9			
FH (60°-80°)	15424.8	47.1			G5
FVH (80°-90°)	350.4	1.1			G3/500
BL (0°-30°)	856.7	2.6	B2/1000		
BM (30°-60°)	1610.0	4.9	B2/2500		
BH (60°-80°)	789.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.5	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°	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3
2.5°	3590.0	3566.4	3528.7	3514.5	3476.8	3457.9	3429.6	3415.5	3363.6	3311.7	3278.6
5°	4028.7	3972.1	3991.0	3934.4	3811.7	3712.7	3707.9	3599.4	3481.5	3387.2	3259.8
7.5°	4472.2	4425.0	4354.2	4274.0	4137.2	3991.0	3948.5	3844.7	3679.6	3514.5	3344.7
10°	4807.1	4774.1	4712.8	4599.5	4410.8	4245.7	4250.5	4075.9	3901.4	3712.7	3481.5
12.5°	5014.7	5028.8	4939.2	4826.0	4660.9	4453.3	4448.6	4330.6	4132.5	3934.4	3660.8
15°	5222.3	5274.1	5137.3	5005.2	4793.0	4642.0	4670.3	4528.8	4335.4	4108.9	3807.0
17.5°	5255.3	5269.4	5241.1	5047.7	4892.0	4764.7	4769.4	4675.0	4528.8	4283.5	4024.0
20°	5198.7	5189.2	5156.2	5014.7	4910.9	4835.4	4840.1	4816.5	4736.4	4538.2	4184.4
22.5°	5033.6	5033.6	4991.1	4896.7	4849.6	4920.3	4863.7	4953.4	4868.4	4750.5	4458.0
25°	4901.5	4953.4	4929.8	4868.4	4887.3	4981.7	5010.0	5094.9	5080.7	4934.5	4646.7
27.5°	5043.0	4981.7	4995.8	4925.1	4995.8	5137.3	5151.5	5212.8	5208.1	5090.2	4816.5
30°	5137.3	5193.9	5085.4	4929.8	5005.2	5245.8	5236.4	5316.6	5354.3	5212.8	4976.9
32.5°	5439.3	5392.1	5302.4	5094.9	5104.3	5241.1	5283.6	5387.4	5411.0	5326.0	5132.6
35°	6057.2	5986.5	5594.9	5283.6	5236.4	5302.4	5330.8	5533.6	5576.1	5481.7	5297.7
37.5°	7010.2	6849.8	6378.0	5689.3	5477.0	5462.8	5462.8	5731.7	5892.1	5675.1	5543.0
40°	8373.5	8147.1	7637.6	6439.4	5793.1	5849.7	5906.3	6052.5	6033.7	5892.1	5863.8
42.5°	10109.6	9935.0	9383.1	7698.9	6396.9	6113.9	6066.7	6264.8	6562.0	6505.4	6486.5
45°	11557.8	11567.3	11213.5	9425.5	7439.5	6722.4	6755.4	6906.4	7406.4	7364.0	7359.3
47.5°	12614.5	12482.5	12430.6	11090.8	8958.5	7878.2	7831.0	7934.8	8585.8	8854.7	8977.4
50°	13576.9	13487.3	13364.6	12708.9	10784.2	9326.5	9279.3	9288.7	10284.1	10661.5	10963.4
52.5°	14770.4	14883.7	14478.0	14077.0	13147.6	11208.7	11156.8	10972.9	12208.8	12727.8	13086.3
55°	16242.3	16030.0	15572.4	15780.0	15407.3	13242.0	13147.6	12930.6	14402.5	14619.5	14996.9
57.5°	16567.8	16407.4	16879.1	17615.1	17973.6	15629.0	15591.3	15199.7	16247.0	16048.9	17115.0
60°	17379.2	17421.7	18077.4	19539.8	20162.5	18384.0	18200.0	17511.3	18034.9	18072.7	19209.6
62.5°	18214.2	18115.1	19582.3	20988.1	21945.7	20992.8	20931.5	19563.4	20157.8	19676.6	21181.5
65°	17600.9	17751.9	19851.2	22205.2	24257.3	23544.9	23493.1	21540.0	21865.5	21266.4	21983.5
67.5°	15421.4	15114.8	18053.8	21648.5	25446.1	26219.8	26163.2	23695.9	22827.9	21257.0	20318.2
70°	11303.1	11038.9	13435.4	18332.1	23743.1	27587.8	27814.3	25196.1	22436.3	19275.6	15676.2
72.5°	5538.3	5543.0	7529.1	12430.6	18785.0	25144.2	25257.4	23101.5	19275.6	14209.1	8878.3
75°	1637.0	1655.8	2788.0	6095.0	12142.8	19096.4	19223.7	17534.9	13359.9	7340.4	3028.6
77.5°	599.1	599.1	924.6	2288.0	6057.2	12053.2	12043.7	10765.3	6764.9	2486.1	707.6
80°	311.4	325.5	481.2	934.1	2622.9	6279.0	6514.8	5269.4	2571.0	1047.3	207.6
82.5°	127.4	141.5	264.2	481.2	1259.6	2203.1	2410.6	2066.3	1118.0	731.2	94.3
85°	37.7	42.5	127.4	268.9	495.3	551.9	613.3	693.5	702.9	566.1	42.5
87.5°	4.7	4.7	51.9	89.6	108.5	117.9	136.8	136.8	358.5	396.3	23.6
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°	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3	3217.3
2.5°	3240.9	3217.3	3179.6	3094.7	3075.8	3014.5	3009.8	2953.1	2972.0	2934.3	2920.1
5°	3217.3	3165.4	3061.6	2995.6	2929.6	2887.1	2858.8	2835.2	2830.5	2811.6	2802.2
7.5°	3259.8	3189.0	3028.6	2924.8	2811.6	2773.9	2712.6	2707.8	2674.8	2641.8	2641.8
10°	3401.3	3273.9	3099.4	2924.8	2778.6	2655.9	2514.4	2410.6	2372.9	2288.0	2297.4
12.5°	3514.5	3401.3	3146.6	2967.3	2745.6	2467.2	2155.9	1915.3	1802.1	1693.6	1736.0
15°	3674.9	3509.8	3236.2	2976.7	2618.2	2137.0	1627.5	1358.6	1254.9	1231.3	1226.5
17.5°	3849.5	3674.9	3349.4	2953.1	2358.7	1651.1	1198.2	1042.6	1061.4	1089.7	1085.0
20°	4042.9	3830.6	3434.3	2872.9	1948.3	1198.2	981.2	976.5	1004.8	1047.3	1056.7
22.5°	4245.7	4061.8	3538.1	2632.4	1453.0	962.4	943.5	943.5	962.4	1014.3	1004.8
25°	4472.2	4226.9	3590.0	2259.7	1042.6	886.9	896.3	915.2	924.6	967.1	971.8
27.5°	4646.7	4410.8	3604.2	1811.5	849.1	820.8	844.4	868.0	882.2	915.2	929.3
30°	4807.1	4642.0	3528.7	1349.2	778.4	764.2	773.7	806.7	835.0	863.3	863.3
32.5°	5010.0	4774.1	3354.1	957.6	735.9	712.3	707.6	721.8	754.8	787.8	787.8
35°	5217.5	4995.8	3075.8	768.9	698.2	665.2	646.3	632.1	646.3	669.9	688.8
37.5°	5519.5	5330.8	2726.7	707.6	669.9	622.7	585.0	551.9	528.4	523.6	537.8
40°	5948.7	5708.2	2278.5	665.2	636.9	580.3	523.6	467.0	415.1	382.1	386.8
42.5°	6599.8	6264.8	1792.6	641.6	613.3	533.1	452.9	372.7	306.6	273.6	273.6
45°	7529.1	7000.7	1316.2	618.0	585.0	476.5	372.7	278.3	212.3	193.4	198.1
47.5°	8930.2	7887.6	943.5	580.3	547.2	415.1	292.5	198.1	155.7	146.2	151.0
50°	10760.6	8939.6	735.9	537.8	500.1	349.1	217.0	146.2	122.7	117.9	122.7
52.5°	12680.6	10001.1	646.3	500.1	429.3	278.3	160.4	117.9	103.8	99.1	103.8
55°	14322.3	10685.1	561.4	443.4	344.4	207.6	127.4	103.8	89.6	75.5	75.5
57.5°	15982.8	11029.5	443.4	368.0	254.7	155.7	108.5	89.6	75.5	61.3	56.6
60°	17332.0	11274.8	316.1	273.6	179.3	122.7	94.3	80.2	61.3	47.2	42.5
62.5°	18218.9	10571.9	231.2	207.6	132.1	103.8	80.2	66.0	47.2	33.0	33.0
65°	17780.2	9600.1	179.3	146.2	99.1	80.2	66.0	47.2	33.0	18.9	14.2
67.5°	15954.5	7821.6	146.2	108.5	75.5	61.3	51.9	37.7	18.9	4.7	4.7
70°	11902.2	5731.7	117.9	80.2	61.3	47.2	37.7	23.6	9.4	4.7	0.0
72.5°	6510.1	3137.1	94.3	66.0	47.2	37.7	28.3	18.9	9.4	0.0	0.0
75°	2151.2	835.0	70.8	47.2	28.3	23.6	18.9	14.2	4.7	0.0	0.0
77.5°	518.9	217.0	56.6	42.5	23.6	14.2	9.4	4.7	4.7	0.0	0.0
80°	160.4	89.6	42.5	28.3	18.9	14.2	4.7	0.0	0.0	0.0	0.0
82.5°	66.0	42.5	18.9	18.9	14.2	4.7	0.0	0.0	0.0	0.0	0.0
85°	33.0	23.6	14.2	9.4	9.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	9.4	4.7	4.7	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)