

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: P483181

Luminaire Tested: **IFLD-L-SA8D-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483181
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

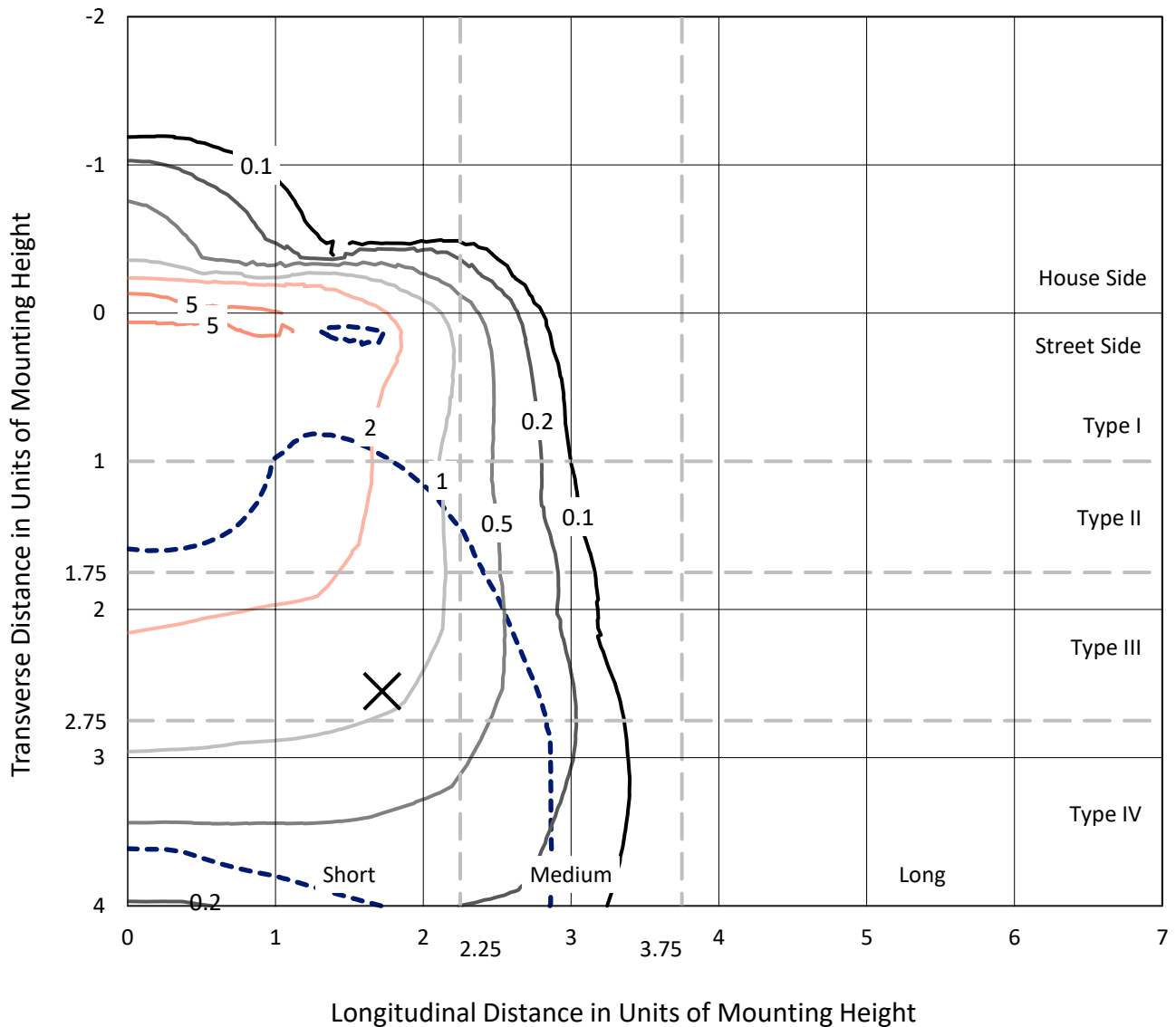
Lumens per Lamp: N/A
Luminaire Lumens: 36706.7 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

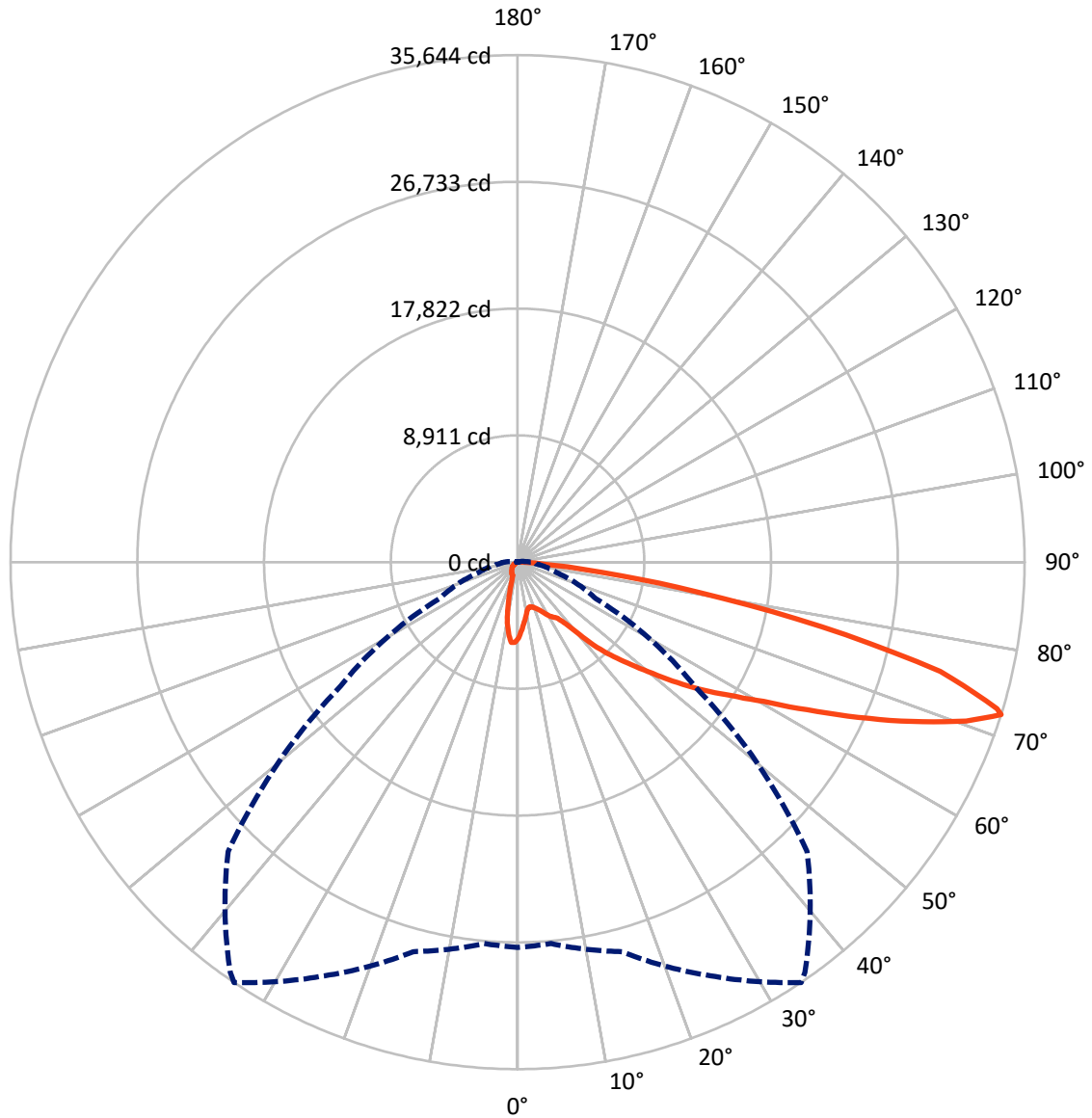
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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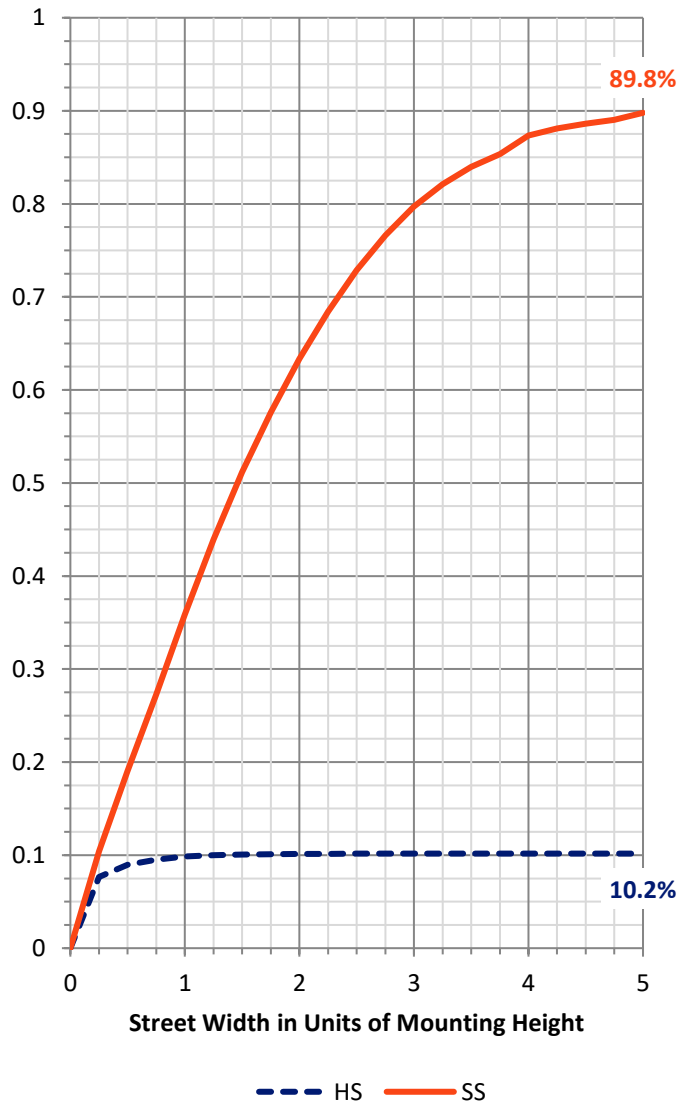
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3757.9	0.0	3757.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	32948.8	0.0	32948.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	36706.7	0.0	36706.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	1.3
10°-20°	1055.4	2.9
20°-30°	1593.0	4.3
30°-40°	2585.2	7.0
40°-50°	4861.4	13.2
50°-60°	7948.4	21.7
60°-70°	10566.3	28.8
70°-80°	7076.2	19.3
80°-90°	554.5	1.5
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°	36706.7	100.0
0°-180°	36706.7	100.0

Coefficient of Utilization



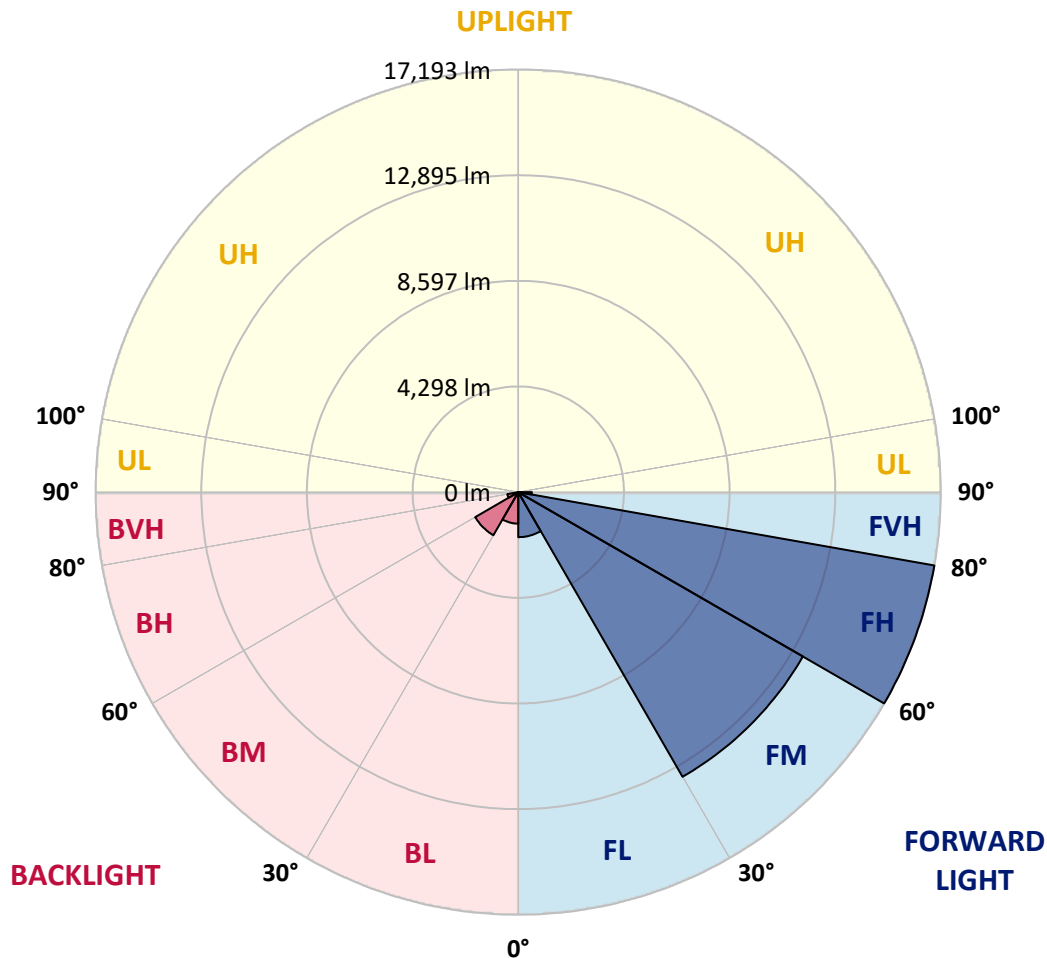
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.5	5.0			
FM (30°-60°)	13372.2	36.4			
FH (60°-80°)	17193.1	46.8			G5
FVH (80°-90°)	551.0	1.5			G4/750
BL (0°-30°)	1282.2	3.5	B3/2500		
BM (30°-60°)	2022.8	5.5	B2/2500		
BH (60°-80°)	449.4	1.2	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2
2.5°	4749.4	4738.7	4770.6	4823.6	4876.7	4855.5	4956.3	5062.4	5136.7	5237.6	5359.6
5°	4149.7	4176.2	4208.1	4314.2	4383.2	4399.1	4584.8	4722.8	4951.0	5184.5	5402.1
7.5°	3603.1	3635.0	3698.7	3815.4	3958.7	3995.8	4181.6	4457.5	4754.7	5062.4	5418.0
10°	3205.1	3237.0	3306.0	3380.3	3571.3	3571.3	3826.0	4208.1	4595.5	4956.3	5423.3
12.5°	3120.2	3136.2	3130.9	3189.2	3311.3	3337.8	3587.2	4006.4	4457.5	4919.2	5508.2
15°	3221.1	3231.7	3178.6	3146.8	3252.9	3279.4	3512.9	3884.4	4367.3	4940.4	5646.2
17.5°	3422.7	3385.6	3279.4	3231.7	3321.9	3337.8	3555.4	3879.1	4356.7	4998.8	5805.4
20°	3539.5	3581.9	3396.2	3306.0	3433.3	3454.6	3688.0	3964.0	4409.7	5099.6	6028.2
22.5°	3746.4	3767.6	3518.2	3459.9	3581.9	3581.9	3847.2	4133.8	4537.1	5264.1	6293.6
25°	4038.3	4011.7	3719.9	3661.5	3778.3	3826.0	4091.3	4404.4	4733.4	5418.0	6537.7
27.5°	4266.5	4282.4	4043.6	3889.7	4086.0	4117.9	4404.4	4696.3	4882.0	5545.3	6834.8
30°	4606.1	4574.2	4319.5	4144.4	4388.5	4393.8	4669.8	4972.2	5168.6	5773.5	7280.6
32.5°	5009.4	4945.7	4653.8	4404.4	4600.8	4648.5	4929.8	5370.2	5614.3	6203.3	7970.4
35°	5863.7	5709.8	5232.2	4844.9	4860.8	4882.0	5317.2	5948.6	6229.9	6749.9	8893.8
37.5°	7110.8	7047.1	6505.8	5768.2	5487.0	5423.3	5911.5	6712.8	7063.0	7471.6	10093.0
40°	8347.2	8257.0	7752.9	7195.7	6686.2	6558.9	6803.0	7726.3	8044.7	8474.5	11324.2
42.5°	9721.6	9562.4	8968.0	8517.0	8198.6	8060.6	7965.1	8999.9	9360.7	9652.6	12528.7
45°	11111.9	10851.9	9992.2	9647.3	9477.5	9403.2	9392.6	10602.5	10820.0	10878.4	13866.0
47.5°	12332.4	12051.1	11271.1	10883.7	10756.4	10735.1	11329.5	12449.1	12279.3	12125.4	15357.1
50°	13271.7	13091.2	12528.7	12390.8	12295.2	12258.1	13648.4	14348.9	13563.5	13292.9	16667.8
52.5°	14725.6	14322.3	13685.6	13733.3	14067.6	14072.9	15999.2	16153.1	14630.1	14094.2	17904.3
55°	15887.8	15622.4	15102.4	15033.4	15914.3	16009.8	18105.9	17522.2	15224.5	14858.3	18360.6
57.5°	17256.9	17134.8	16758.0	16768.7	17692.0	17893.6	19979.1	18679.0	15718.0	15351.8	18429.6
60°	19236.2	18886.0	18689.6	18779.8	19867.7	20064.0	21794.0	19512.1	15956.8	15675.5	18259.8
62.5°	21422.5	21013.9	20801.6	21263.3	22850.0	22881.8	23173.7	20249.7	15808.2	15760.4	17166.7
65°	24054.5	23651.2	23481.4	24410.1	26293.9	26177.2	25110.5	20562.8	15335.9	14906.1	14295.8
67.5°	26676.0	26431.9	26081.6	27562.2	29907.6	29907.6	27121.7	20446.1	14099.5	11966.2	9350.1
70°	27917.7	28087.5	28644.7	30969.0	33457.7	33203.0	29106.4	19103.5	10496.3	6426.2	3677.4
72°	27089.9	26914.8	28352.8	32083.3	35644.0	35224.8	28772.0	15187.3	6065.4	2817.8	1278.9
72.5°	25667.7	25832.2	27811.6	31929.4	35235.4	35580.3	27954.8	14009.3	4988.1	2244.7	965.8
75°	15739.2	16020.4	20759.2	27111.1	30703.6	30316.3	21624.1	6675.6	1915.7	955.2	344.9
77.5°	5747.0	5980.5	10071.8	17060.5	21836.4	21592.3	12512.8	2372.0	1040.1	711.1	175.1
80°	1496.4	1618.5	3422.7	7869.6	12841.8	12857.7	5237.6	949.9	705.8	583.7	106.1
82.5°	297.2	329.0	1050.7	3061.9	6001.7	5922.1	1655.6	509.4	530.7	477.6	74.3
85°	37.1	47.8	222.9	1040.1	1942.2	1740.5	408.6	254.7	392.7	371.5	47.8
87.5°	5.3	5.3	53.1	238.8	408.6	398.0	84.9	79.6	175.1	228.2	26.5
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°	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2	5370.2
2.5°	5428.6	5449.8	5524.1	5587.8	5662.1	5683.3	5651.5	5704.5	5630.2	5672.7	5683.3
5°	5439.2	5561.3	5699.2	5789.4	5768.2	5715.1	5672.7	5529.4	5428.6	5391.4	5471.0
7.5°	5513.5	5651.5	5800.0	5800.0	5683.3	5407.4	5142.0	4887.3	4675.1	4568.9	4659.1
10°	5609.0	5752.3	5906.2	5704.5	5269.4	4765.3	4388.5	3910.9	3587.2	3417.4	3433.3
12.5°	5736.4	5938.0	5991.1	5524.1	4802.4	4054.2	3369.7	2706.3	2398.6	2154.5	2159.8
15°	5900.9	6097.2	5938.0	5131.4	4208.1	3104.3	2281.8	1650.3	1406.2	1278.9	1278.9
17.5°	6118.4	6267.0	5922.1	4770.6	3406.8	2122.6	1400.9	1114.4	1061.3	1040.1	1040.1
20°	6373.2	6484.6	5768.2	4208.1	2531.2	1363.8	1029.5	997.6	1002.9	992.3	992.3
22.5°	6659.7	6696.9	5593.1	3555.4	1714.0	1008.2	960.5	965.8	971.1	960.5	965.8
25°	6962.2	6861.4	5338.4	2791.2	1140.9	918.0	928.6	939.3	944.6	949.9	949.9
27.5°	7301.8	7100.1	4982.8	2043.0	891.5	865.0	896.8	928.6	934.0	934.0	928.6
30°	7800.6	7466.3	4637.9	1385.0	785.4	806.6	859.7	896.8	923.3	923.3	918.0
32.5°	8432.1	7848.4	4155.0	944.6	727.0	737.6	780.1	854.4	912.7	918.0	902.1
35°	9307.7	8310.0	3650.9	753.5	684.5	689.8	716.4	774.8	875.6	907.4	902.1
37.5°	10231.0	8835.4	3024.7	679.2	652.7	647.4	663.3	711.1	801.3	880.9	886.2
40°	11212.7	9387.3	2366.7	642.1	626.2	615.6	620.9	642.1	711.1	811.9	833.1
42.5°	12136.1	9886.1	1777.7	604.9	599.6	589.0	589.0	594.3	631.5	700.5	711.1
45°	13133.7	10294.7	1353.2	578.4	562.5	567.8	546.6	536.0	562.5	567.8	562.5
47.5°	14067.6	10703.3	1082.5	546.6	530.7	530.7	504.1	482.9	482.9	435.1	429.8
50°	14943.2	10926.2	865.0	504.1	498.8	493.5	456.4	419.2	387.4	329.0	318.4
52.5°	15670.2	10915.5	668.6	451.1	467.0	451.1	392.7	339.6	291.9	238.8	228.2
55°	15887.8	10406.1	504.1	371.5	398.0	376.8	313.1	265.3	212.3	169.8	164.5
57.5°	15702.0	9631.4	382.1	286.6	307.8	286.6	238.8	196.3	148.6	116.7	106.1
60°	15081.2	8723.9	297.2	222.9	233.5	217.6	180.4	148.6	106.1	74.3	63.7
62.5°	13903.1	7588.3	228.2	175.1	169.8	169.8	138.0	111.4	74.3	42.5	37.1
65°	11409.1	5916.8	175.1	122.1	122.1	122.1	106.1	79.6	47.8	21.2	10.6
67.5°	7163.8	3443.9	143.3	95.5	90.2	90.2	74.3	53.1	26.5	5.3	0.0
70°	2695.7	1263.0	111.4	74.3	69.0	69.0	53.1	31.8	15.9	0.0	0.0
72°	928.6	482.9	90.2	53.1	53.1	47.8	37.1	26.5	10.6	0.0	0.0
72.5°	764.1	387.4	84.9	53.1	47.8	47.8	37.1	26.5	10.6	0.0	0.0
75°	275.9	159.2	58.4	37.1	31.8	31.8	26.5	15.9	5.3	0.0	0.0
77.5°	138.0	100.8	47.8	31.8	26.5	15.9	15.9	10.6	5.3	0.0	0.0
80°	84.9	63.7	26.5	21.2	15.9	10.6	5.3	5.3	0.0	0.0	0.0
82.5°	58.4	37.1	15.9	15.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0
85°	37.1	15.9	10.6	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	10.6	5.3	0.0	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)