

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: P483492

Luminaire Tested: **IFLD-L-SA8C-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483492
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

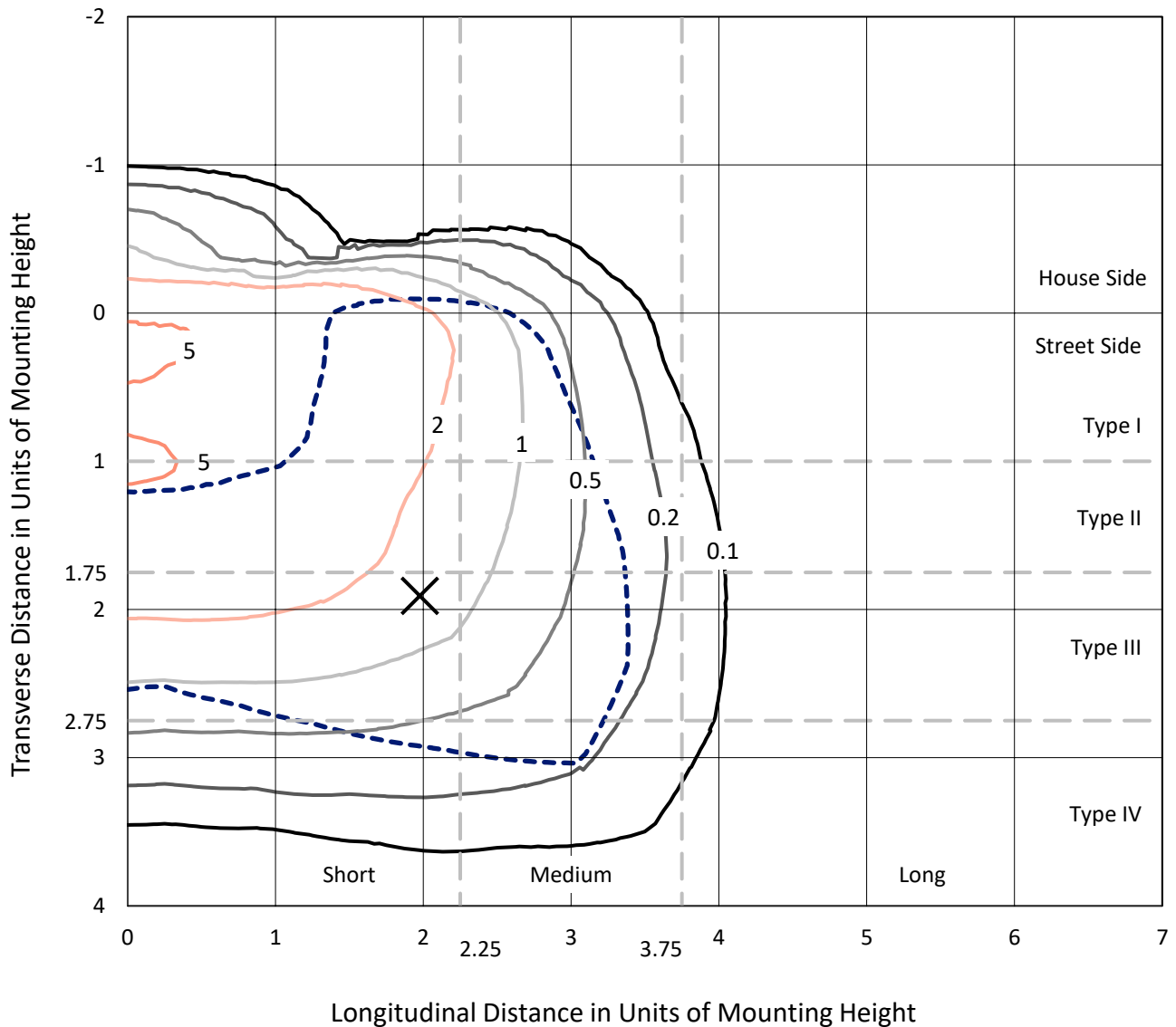
Lumens per Lamp: N/A
Luminaire Lumens: 27535.4 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

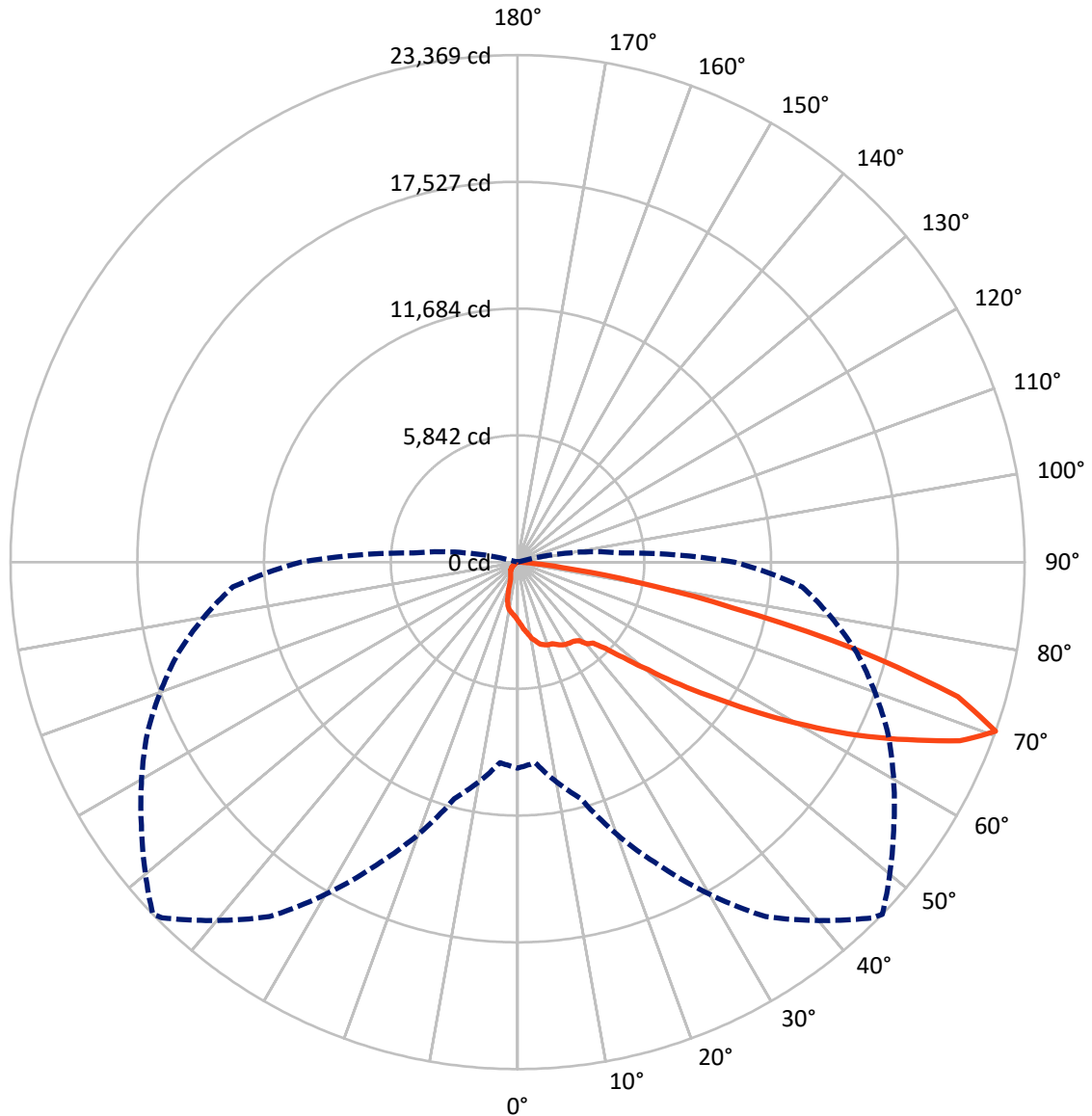
× Max cd
 - - - 1/2 Max cd



Based on 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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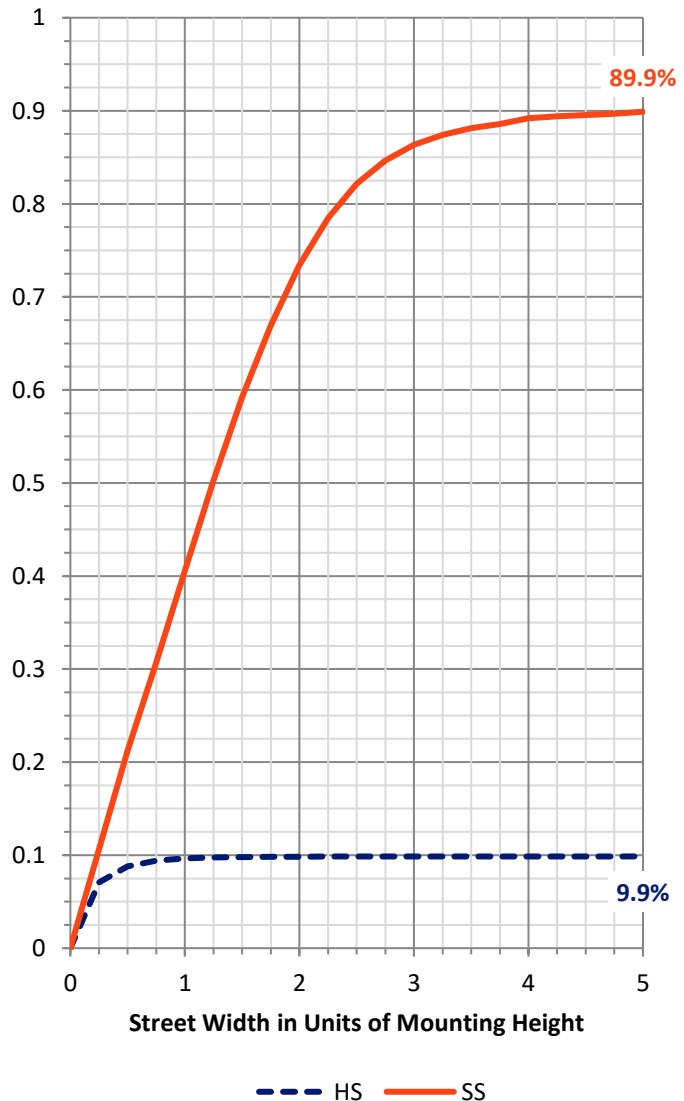
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2739.8	0.0	2739.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	24795.5	0.0	24795.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	27535.4	0.0	27535.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	1.0
10°-20°	814.0	3.0
20°-30°	1303.8	4.7
30°-40°	1861.0	6.8
40°-50°	3213.4	11.7
50°-60°	6152.4	22.3
60°-70°	9110.7	33.1
70°-80°	4512.4	16.4
80°-90°	298.2	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°	27535.4	100.0
0°-180°	27535.4	100.0

Coefficient of Utilization

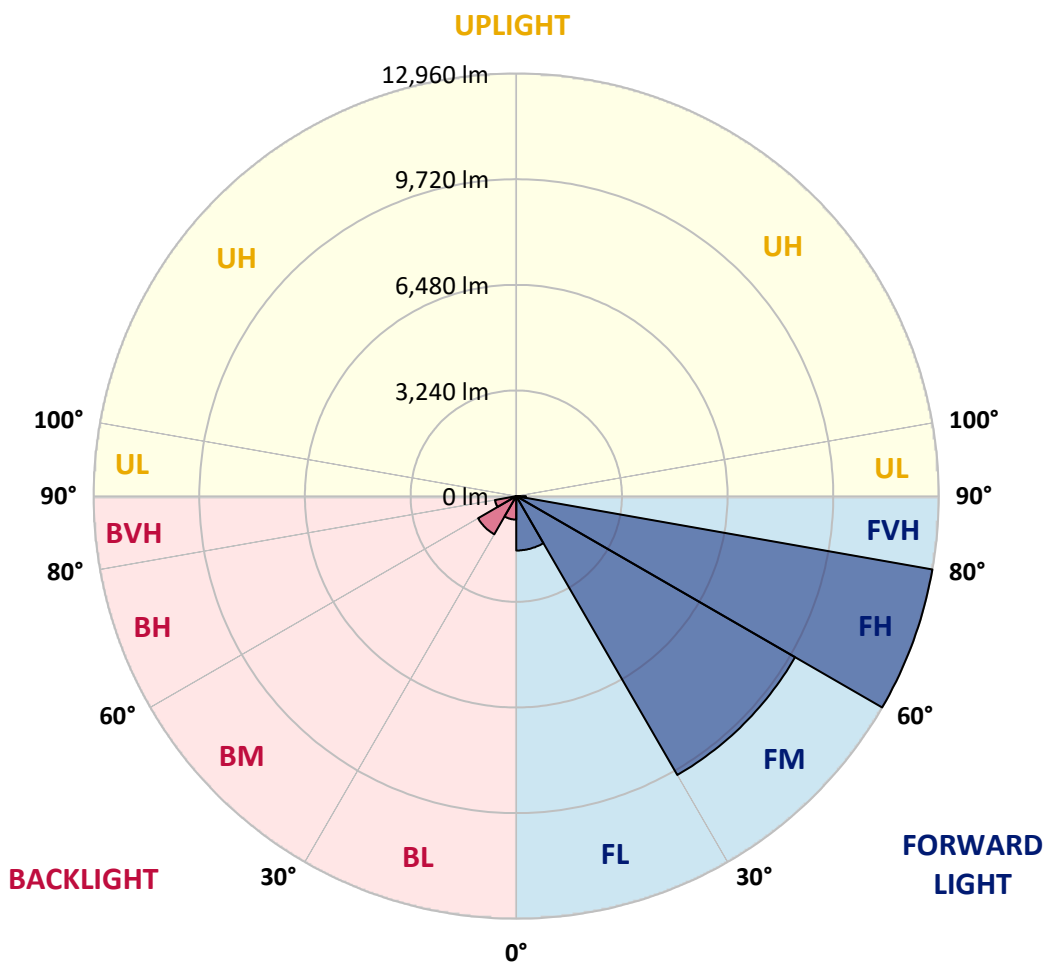


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.5	6.1			
FM (30°-60°)	9874.1	35.9			
FH (60°-80°)	12959.6	47.1			G5
FVH (80°-90°)	294.4	1.1			G3/500
BL (0°-30°)	719.8	2.6	B2/1000		
BM (30°-60°)	1352.7	4.9	B2/2500		
BH (60°-80°)	663.6	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°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	3016.2	2996.4	2964.7	2952.8	2921.1	2905.3	2881.5	2869.6	2826.0	2782.4	2754.6
5°	3384.8	3337.3	3353.1	3305.6	3202.5	3119.3	3115.3	3024.2	2925.1	2845.8	2738.8
7.5°	3757.4	3717.8	3658.3	3590.9	3476.0	3353.1	3317.5	3230.3	3091.5	2952.8	2810.1
10°	4038.8	4011.1	3959.5	3864.4	3705.9	3567.2	3571.1	3424.5	3277.8	3119.3	2925.1
12.5°	4213.2	4225.1	4149.8	4054.7	3915.9	3741.6	3737.6	3638.5	3472.0	3305.6	3075.7
15°	4387.6	4431.2	4316.3	4205.3	4026.9	3900.1	3923.9	3805.0	3642.5	3452.2	3198.6
17.5°	4415.4	4427.2	4403.5	4241.0	4110.2	4003.1	4007.1	3927.8	3805.0	3598.9	3380.9
20°	4367.8	4359.9	4332.1	4213.2	4126.0	4062.6	4066.6	4046.7	3979.4	3812.9	3515.6
22.5°	4229.1	4229.1	4193.4	4114.1	4074.5	4133.9	4086.4	4161.7	4090.3	3991.3	3745.5
25°	4118.1	4161.7	4141.9	4090.3	4106.2	4185.5	4209.2	4280.6	4268.7	4145.8	3904.1
27.5°	4237.0	4185.5	4197.4	4137.9	4197.4	4316.3	4328.2	4379.7	4375.7	4276.6	4046.7
30°	4316.3	4363.8	4272.7	4141.9	4205.3	4407.4	4399.5	4466.9	4498.6	4379.7	4181.5
32.5°	4569.9	4530.3	4455.0	4280.6	4288.5	4403.5	4439.1	4526.3	4546.1	4474.8	4312.3
35°	5089.1	5029.7	4700.7	4439.1	4399.5	4455.0	4478.8	4649.2	4684.9	4605.6	4451.0
37.5°	5889.8	5755.0	5358.7	4780.0	4601.6	4589.7	4589.7	4815.7	4950.4	4768.1	4657.1
40°	7035.2	6845.0	6416.9	5410.2	4867.2	4914.8	4962.3	5085.2	5069.3	4950.4	4926.6
42.5°	8493.8	8347.2	7883.4	6468.4	5374.5	5136.7	5097.1	5263.5	5513.2	5465.7	5449.8
45°	9710.6	9718.5	9421.3	7919.1	6250.5	5648.0	5675.7	5802.6	6222.7	6187.0	6183.1
47.5°	10598.4	10487.4	10443.8	9318.2	7526.7	6619.1	6579.4	6666.6	7213.6	7439.5	7542.6
50°	11407.0	11331.7	11228.6	10677.7	9060.6	7835.9	7796.2	7804.2	8640.5	8957.5	9211.2
52.5°	12409.8	12504.9	12164.0	11827.1	11046.3	9417.3	9373.7	9219.1	10257.6	10693.6	10994.8
55°	13646.4	13468.0	13083.5	13257.9	12944.8	11125.6	11046.3	10864.0	12100.6	12282.9	12600.0
57.5°	13919.8	13785.1	14181.4	14799.7	15101.0	13131.1	13099.4	12770.4	13650.3	13483.9	14379.6
60°	14601.6	14637.2	15188.2	16416.9	16940.0	15445.8	15291.2	14712.6	15152.5	15184.2	16139.4
62.5°	15303.1	15219.9	16452.5	17633.7	18438.3	17637.6	17586.1	16436.7	16936.1	16531.8	17796.2
65°	14787.9	14914.7	16678.5	18656.2	20380.4	19781.9	19738.3	18097.4	18370.9	17867.5	18470.0
67.5°	12956.7	12699.1	15168.4	18188.5	21379.2	22029.2	21981.6	19908.7	19179.4	17859.6	17070.8
70°	9496.6	9274.6	11288.1	15402.2	19948.3	23178.6	23368.9	21169.1	18850.5	16194.9	13170.7
72.5°	4653.2	4657.1	6325.8	10443.8	15782.7	21125.5	21220.6	19409.3	16194.9	11938.1	7459.3
75°	1375.3	1391.2	2342.4	5120.9	10202.1	16044.3	16151.3	14732.4	11224.7	6167.2	2544.6
77.5°	503.4	503.4	776.8	1922.3	5089.1	10126.8	10118.8	9044.7	5683.7	2088.8	594.5
80°	261.6	273.5	404.3	784.8	2203.7	5275.4	5473.6	4427.2	2160.1	879.9	174.4
82.5°	107.0	118.9	222.0	404.3	1058.3	1851.0	2025.4	1736.0	939.4	614.3	79.3
85°	31.7	35.7	107.0	225.9	416.2	463.7	515.3	582.6	590.6	475.6	35.7
87.5°	4.0	4.0	43.6	75.3	91.2	99.1	114.9	114.9	301.2	332.9	19.8
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°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2722.9	2703.1	2671.4	2600.1	2584.2	2532.7	2528.7	2481.2	2497.0	2465.3	2453.4
5°	2703.1	2659.5	2572.3	2516.8	2461.3	2425.7	2401.9	2382.1	2378.1	2362.3	2354.3
7.5°	2738.8	2679.3	2544.6	2457.4	2362.3	2330.5	2279.0	2275.1	2247.3	2219.6	2219.6
10°	2857.7	2750.7	2604.0	2457.4	2334.5	2231.5	2112.6	2025.4	1993.6	1922.3	1930.2
12.5°	2952.8	2857.7	2643.7	2493.0	2306.8	2072.9	1811.3	1609.2	1514.1	1422.9	1458.6
15°	3087.6	2948.9	2719.0	2501.0	2199.7	1795.5	1367.4	1141.5	1054.3	1034.5	1030.5
17.5°	3234.2	3087.6	2814.1	2481.2	1981.8	1387.2	1006.7	875.9	891.8	915.6	911.6
20°	3396.7	3218.4	2885.4	2413.8	1636.9	1006.7	824.4	820.4	844.2	879.9	887.8
22.5°	3567.2	3412.6	2972.6	2211.6	1220.8	808.6	792.7	792.7	808.6	852.2	844.2
25°	3757.4	3551.3	3016.2	1898.5	875.9	745.1	753.1	768.9	776.8	812.5	816.5
27.5°	3904.1	3705.9	3028.1	1522.0	713.4	689.7	709.5	729.3	741.2	768.9	780.8
30°	4038.8	3900.1	2964.7	1133.6	654.0	642.1	650.0	677.8	701.5	725.3	725.3
32.5°	4209.2	4011.1	2818.1	804.6	618.3	598.5	594.5	606.4	634.2	661.9	661.9
35°	4383.6	4197.4	2584.2	646.1	586.6	558.9	543.0	531.1	543.0	562.8	578.7
37.5°	4637.3	4478.8	2290.9	594.5	562.8	523.2	491.5	463.7	443.9	439.9	451.8
40°	4998.0	4795.8	1914.4	558.9	535.1	487.5	439.9	392.4	348.8	321.0	325.0
42.5°	5545.0	5263.5	1506.1	539.0	515.3	447.9	380.5	313.1	257.6	229.9	229.9
45°	6325.8	5881.8	1105.8	519.2	491.5	400.3	313.1	233.8	178.4	162.5	166.5
47.5°	7502.9	6627.0	792.7	487.5	459.8	348.8	245.7	166.5	130.8	122.9	126.8
50°	9040.8	7510.9	618.3	451.8	420.1	293.3	182.3	122.9	103.1	99.1	103.1
52.5°	10653.9	8402.6	543.0	420.1	360.7	233.8	134.8	99.1	87.2	83.2	87.2
55°	12033.2	8977.4	471.7	372.6	289.3	174.4	107.0	87.2	75.3	63.4	63.4
57.5°	13428.4	9266.7	372.6	309.2	214.0	130.8	91.2	75.3	63.4	51.5	47.6
60°	14561.9	9472.8	265.6	229.9	150.6	103.1	79.3	67.4	51.5	39.6	35.7
62.5°	15307.1	8882.2	194.2	174.4	111.0	87.2	67.4	55.5	39.6	27.7	27.7
65°	14938.5	8065.7	150.6	122.9	83.2	67.4	55.5	39.6	27.7	15.9	11.9
67.5°	13404.6	6571.5	122.9	91.2	63.4	51.5	43.6	31.7	15.9	4.0	4.0
70°	9999.9	4815.7	99.1	67.4	51.5	39.6	31.7	19.8	7.9	4.0	0.0
72.5°	5469.6	2635.7	79.3	55.5	39.6	31.7	23.8	15.9	7.9	0.0	0.0
75°	1807.4	701.5	59.5	39.6	23.8	19.8	15.9	11.9	4.0	0.0	0.0
77.5°	436.0	182.3	47.6	35.7	19.8	11.9	7.9	4.0	4.0	0.0	0.0
80°	134.8	75.3	35.7	23.8	15.9	11.9	4.0	0.0	0.0	0.0	0.0
82.5°	55.5	35.7	15.9	15.9	11.9	4.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	19.8	11.9	7.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	7.9	4.0	4.0	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)