

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: P483175

Luminaire Tested: **IFLD-L-SA7C-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

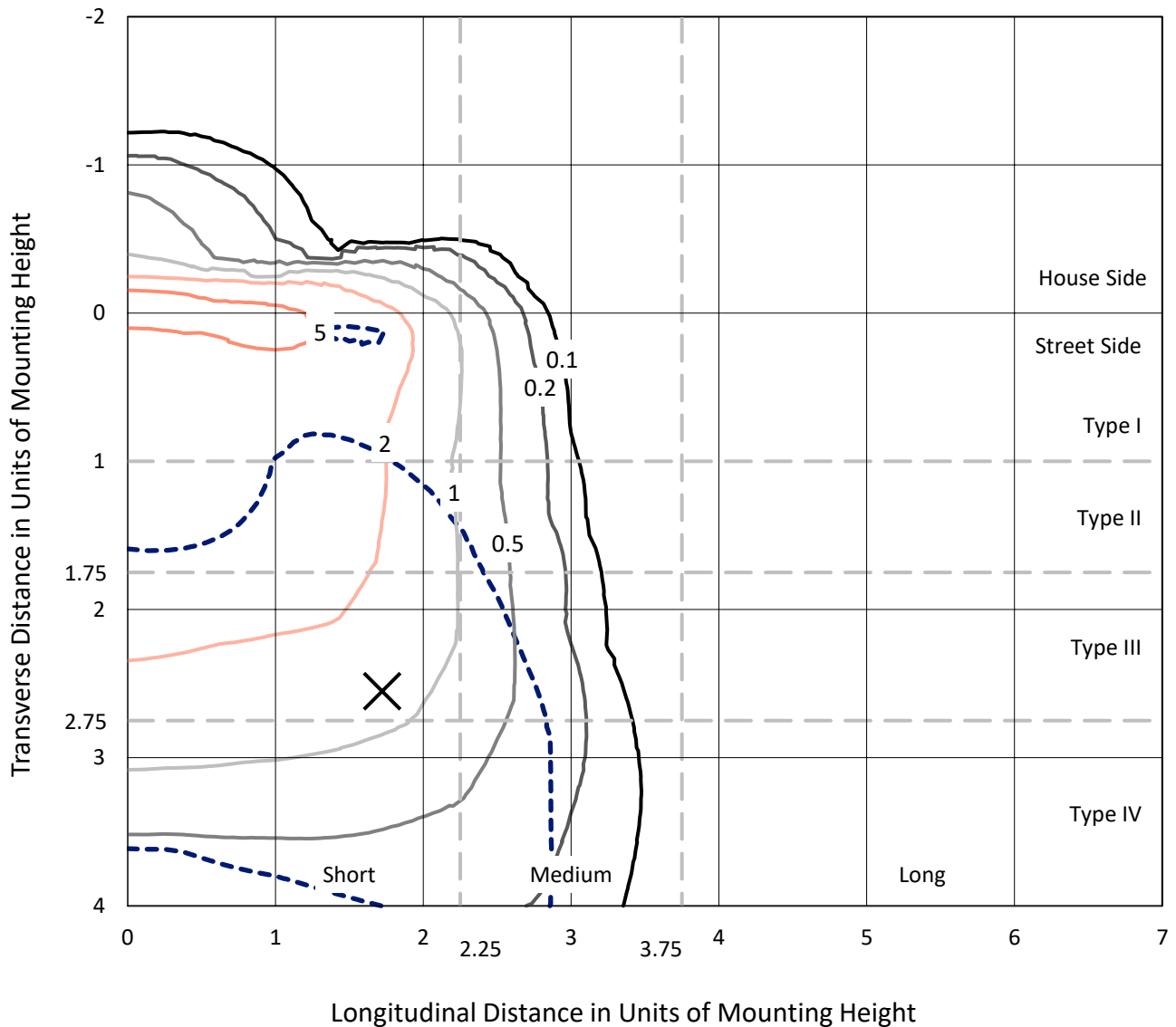
Lumens per Lamp: N/A
Luminaire Lumens: 29189.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

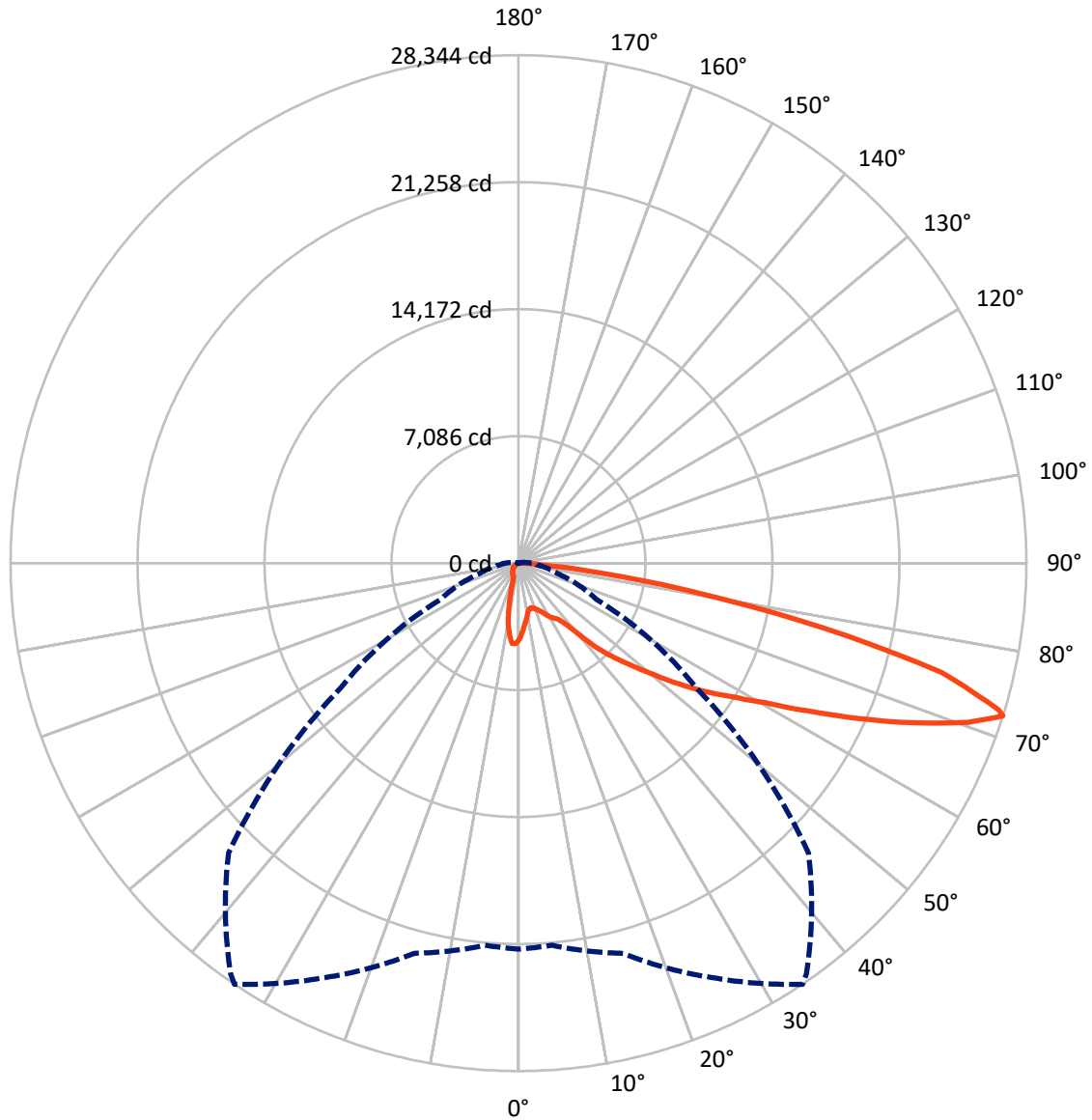
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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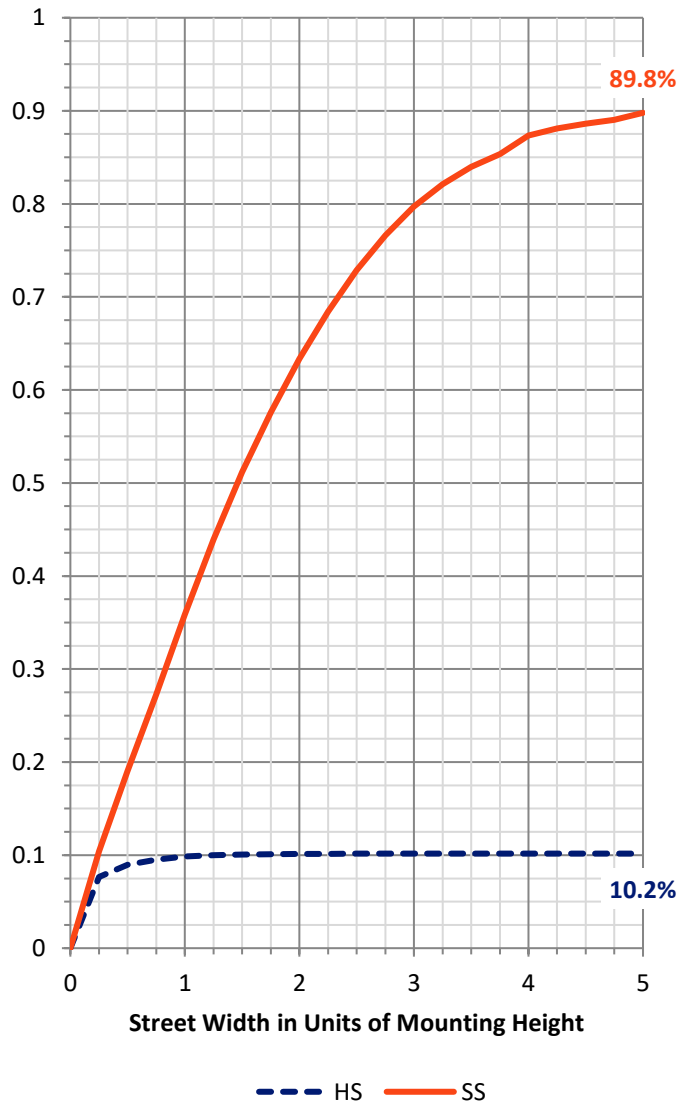
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2988.3	0.0	2988.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26201.1	0.0	26201.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	29189.4	0.0	29189.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.7	1.3
10°-20°	839.3	2.9
20°-30°	1266.8	4.3
30°-40°	2055.8	7.0
40°-50°	3865.8	13.2
50°-60°	6320.6	21.7
60°-70°	8402.4	28.8
70°-80°	5627.0	19.3
80°-90°	441.0	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°	29189.4	100.0
0°-180°	29189.4	100.0

Coefficient of Utilization



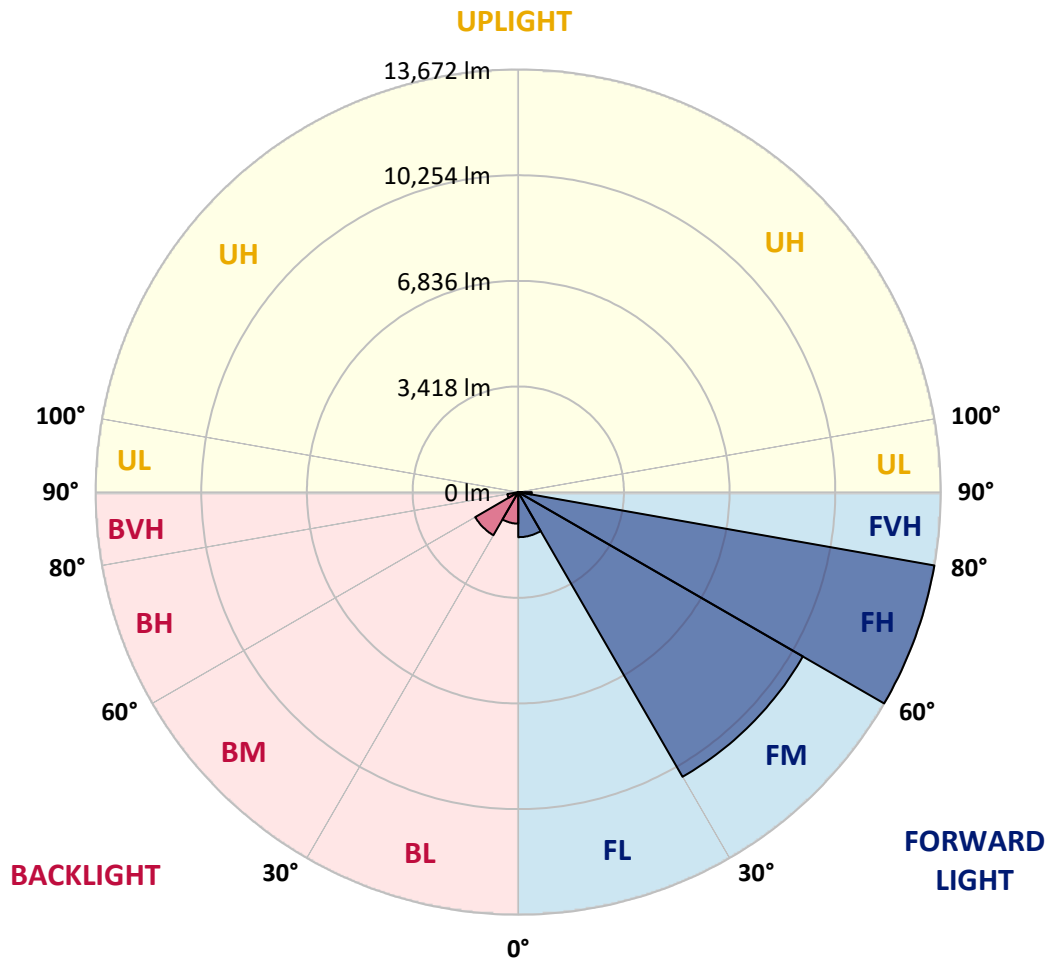
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1457.2	5.0			
FM (30°-60°)	10633.6	36.4			
FH (60°-80°)	13672.1	46.8			G5
FVH (80°-90°)	438.2	1.5			G3/500
BL (0°-30°)	1019.6	3.5	B3/2500		
BM (30°-60°)	1608.6	5.5	B2/2500		
BH (60°-80°)	357.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4
2.5°	3776.7	3768.3	3793.6	3835.8	3878.0	3861.1	3941.3	4025.7	4084.8	4164.9	4262.0
5°	3299.9	3321.0	3346.3	3430.7	3485.5	3498.2	3645.9	3755.6	3937.1	4122.7	4295.7
7.5°	2865.2	2890.6	2941.2	3034.0	3148.0	3177.5	3325.2	3544.6	3780.9	4025.7	4308.4
10°	2548.8	2574.1	2628.9	2688.0	2839.9	2839.9	3042.5	3346.3	3654.3	3941.3	4312.6
12.5°	2481.2	2493.9	2489.7	2536.1	2633.1	2654.2	2852.6	3185.9	3544.6	3911.7	4380.1
15°	2561.4	2569.9	2527.7	2502.3	2586.7	2607.8	2793.5	3088.9	3472.9	3928.6	4489.9
17.5°	2721.8	2692.2	2607.8	2569.9	2641.6	2654.2	2827.3	3084.7	3464.4	3975.0	4616.5
20°	2814.6	2848.4	2700.7	2628.9	2730.2	2747.1	2932.8	3152.2	3506.6	4055.2	4793.7
22.5°	2979.2	2996.1	2797.7	2751.3	2848.4	2848.4	3059.3	3287.2	3607.9	4186.0	5004.7
25°	3211.3	3190.2	2958.1	2911.7	3004.5	3042.5	3253.5	3502.4	3764.1	4308.4	5198.8
27.5°	3392.7	3405.4	3215.5	3093.1	3249.2	3274.6	3502.4	3734.5	3882.2	4409.7	5435.1
30°	3662.8	3637.5	3434.9	3295.7	3489.8	3494.0	3713.4	3953.9	4110.1	4591.1	5789.6
32.5°	3983.5	3932.8	3700.8	3502.4	3658.6	3696.5	3920.2	4270.4	4464.5	4932.9	6338.1
35°	4662.9	4540.5	4160.7	3852.7	3865.3	3882.2	4228.2	4730.4	4954.0	5367.6	7072.4
37.5°	5654.5	5603.9	5173.5	4586.9	4363.3	4312.6	4700.8	5338.0	5616.5	5941.5	8026.0
40°	6637.7	6566.0	6165.1	5722.0	5316.9	5215.7	5409.8	6144.0	6397.2	6739.0	9005.0
42.5°	7730.7	7604.1	7131.4	6772.8	6519.6	6409.9	6333.9	7156.8	7443.7	7675.8	9962.9
45°	8836.2	8629.5	7945.9	7671.6	7536.5	7477.5	7469.0	8431.1	8604.2	8650.6	11026.3
47.5°	9806.8	9583.1	8962.8	8654.8	8553.5	8536.6	9009.3	9899.6	9764.6	9642.2	12212.1
50°	10553.7	10410.2	9962.9	9853.2	9777.3	9747.7	10853.3	11410.3	10785.8	10570.6	13254.4
52.5°	11709.9	11389.2	10882.8	10920.8	11186.7	11190.9	12722.7	12845.0	11634.0	11207.8	14237.6
55°	12634.1	12423.1	12009.5	11954.7	12655.2	12731.1	14397.9	13933.7	12106.6	11815.4	14600.5
57.5°	13722.8	13625.7	13326.1	13334.5	14068.8	14229.1	15887.5	14853.7	12499.0	12207.9	14655.3
60°	15296.7	15018.2	14862.1	14933.8	15798.9	15955.0	17330.7	15516.2	12688.9	12465.3	14520.3
62.5°	17035.3	16710.4	16541.6	16908.7	18170.4	18195.7	18427.8	16102.7	12570.8	12532.8	13651.0
65°	19128.3	18807.6	18672.6	19411.0	20909.1	20816.2	19968.0	16351.7	12195.2	11853.4	11368.1
67.5°	21212.9	21018.8	20740.3	21917.6	23782.7	23782.7	21567.3	16258.9	11212.0	9515.6	7435.3
70°	22200.3	22335.3	22778.4	24626.7	26605.8	26403.2	23145.5	15191.2	8346.7	5110.2	2924.3
72°	21542.0	21402.8	22546.3	25512.9	28344.3	28011.0	22879.7	12077.0	4823.2	2240.7	1017.0
72.5°	20411.1	20541.9	22115.9	25390.5	28019.4	28293.7	22229.9	11140.2	3966.6	1785.0	768.0
75°	12515.9	12739.5	16507.8	21558.9	24415.7	24107.7	17195.6	5308.5	1523.3	759.6	274.3
77.5°	4570.0	4755.7	8009.2	13566.6	17364.4	17170.3	9950.3	1886.2	827.1	565.5	139.3
80°	1190.0	1287.0	2721.8	6257.9	10211.9	10224.6	4164.9	755.3	561.2	464.2	84.4
82.5°	236.3	261.6	835.5	2434.8	4772.6	4709.3	1316.6	405.1	422.0	379.8	59.1
85°	29.5	38.0	177.2	827.1	1544.4	1384.1	324.9	202.5	312.3	295.4	38.0
87.5°	4.2	4.2	42.2	189.9	324.9	316.5	67.5	63.3	139.3	181.5	21.1
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°	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4	4270.4
2.5°	4316.8	4333.7	4392.8	4443.4	4502.5	4519.4	4494.1	4536.3	4477.2	4511.0	4519.4
5°	4325.3	4422.3	4532.1	4603.8	4586.9	4544.7	4511.0	4397.0	4316.8	4287.3	4350.6
7.5°	4384.4	4494.1	4612.2	4612.2	4519.4	4300.0	4089.0	3886.4	3717.6	3633.2	3705.0
10°	4460.3	4574.3	4696.6	4536.3	4190.3	3789.4	3489.8	3110.0	2852.6	2717.5	2730.2
12.5°	4561.6	4721.9	4764.1	4392.8	3818.9	3223.9	2679.6	2152.1	1907.3	1713.2	1717.5
15°	4692.4	4848.5	4721.9	4080.5	3346.3	2468.6	1814.5	1312.4	1118.2	1017.0	1017.0
17.5°	4865.4	4983.6	4709.3	3793.6	2709.1	1687.9	1114.0	886.2	844.0	827.1	827.1
20°	5068.0	5156.6	4586.9	3346.3	2012.8	1084.5	818.6	793.3	797.5	789.1	789.1
22.5°	5295.8	5325.4	4447.7	2827.3	1363.0	801.8	763.8	768.0	772.2	763.8	768.0
25°	5536.4	5456.2	4245.1	2219.6	907.3	730.0	738.5	746.9	751.1	755.3	755.3
27.5°	5806.4	5646.1	3962.4	1624.6	708.9	687.8	713.1	738.5	742.7	742.7	738.5
30°	6203.1	5937.2	3688.1	1101.4	624.5	641.4	683.6	713.1	734.2	734.2	730.0
32.5°	6705.2	6241.1	3304.1	751.1	578.1	586.6	620.3	679.4	725.8	730.0	717.4
35°	7401.5	6608.2	2903.2	599.2	544.4	548.6	569.7	616.1	696.3	721.6	717.4
37.5°	8135.8	7026.0	2405.3	540.1	519.0	514.8	527.5	565.5	637.2	700.5	704.7
40°	8916.4	7464.8	1882.0	510.6	497.9	489.5	493.7	510.6	565.5	645.6	662.5
42.5°	9650.7	7861.5	1413.6	481.1	476.8	468.4	468.4	472.6	502.2	557.0	565.5
45°	10444.0	8186.4	1076.0	460.0	447.3	451.5	434.6	426.2	447.3	451.5	447.3
47.5°	11186.7	8511.3	860.8	434.6	422.0	422.0	400.9	384.0	384.0	346.0	341.8
50°	11882.9	8688.5	687.8	400.9	396.7	392.4	362.9	333.4	308.0	261.6	253.2
52.5°	12461.0	8680.1	531.7	358.7	371.3	358.7	312.3	270.1	232.1	189.9	181.5
55°	12634.1	8275.0	400.9	295.4	316.5	299.6	249.0	211.0	168.8	135.0	130.8
57.5°	12486.4	7658.9	303.8	227.9	244.7	227.9	189.9	156.1	118.2	92.8	84.4
60°	11992.6	6937.3	236.3	177.2	185.7	173.0	143.5	118.2	84.4	59.1	50.6
62.5°	11055.8	6034.3	181.5	139.3	135.0	135.0	109.7	88.6	59.1	33.8	29.5
65°	9072.5	4705.1	139.3	97.1	97.1	97.1	84.4	63.3	38.0	16.9	8.4
67.5°	5696.7	2738.6	113.9	76.0	71.7	71.7	59.1	42.2	21.1	4.2	0.0
70°	2143.7	1004.3	88.6	59.1	54.9	54.9	42.2	25.3	12.7	0.0	0.0
72°	738.5	384.0	71.7	42.2	42.2	38.0	29.5	21.1	8.4	0.0	0.0
72.5°	607.6	308.0	67.5	42.2	38.0	38.0	29.5	21.1	8.4	0.0	0.0
75°	219.4	126.6	46.4	29.5	25.3	25.3	21.1	12.7	4.2	0.0	0.0
77.5°	109.7	80.2	38.0	25.3	21.1	12.7	12.7	8.4	4.2	0.0	0.0
80°	67.5	50.6	21.1	16.9	12.7	8.4	4.2	4.2	0.0	0.0	0.0
82.5°	46.4	29.5	12.7	12.7	8.4	4.2	0.0	0.0	0.0	0.0	0.0
85°	29.5	12.7	8.4	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	8.4	4.2	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)