

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: P483103

Luminaire Tested: **IFLD-L-SA8D-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

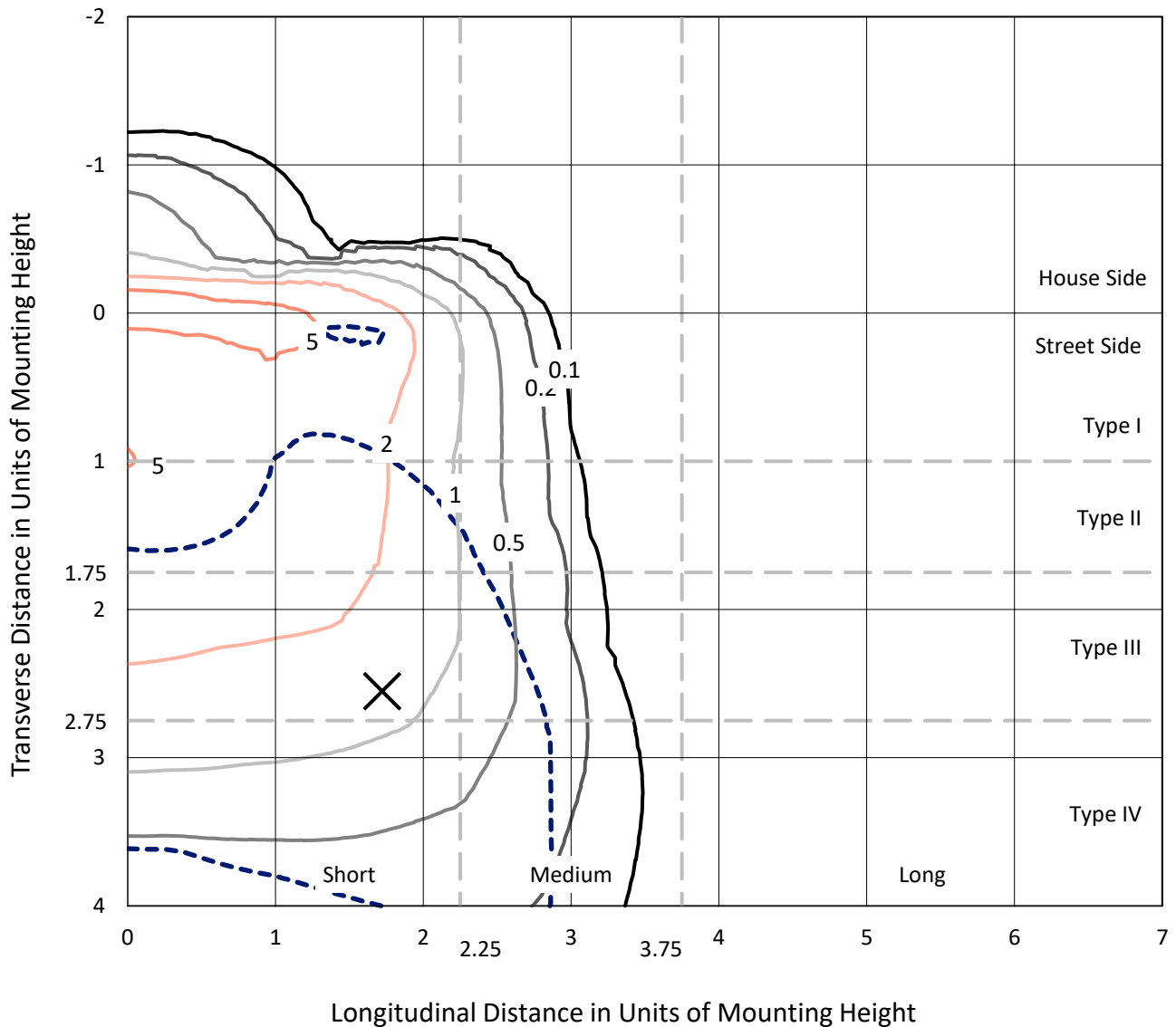
Lumens per Lamp: N/A
Luminaire Lumens: 29692.7 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

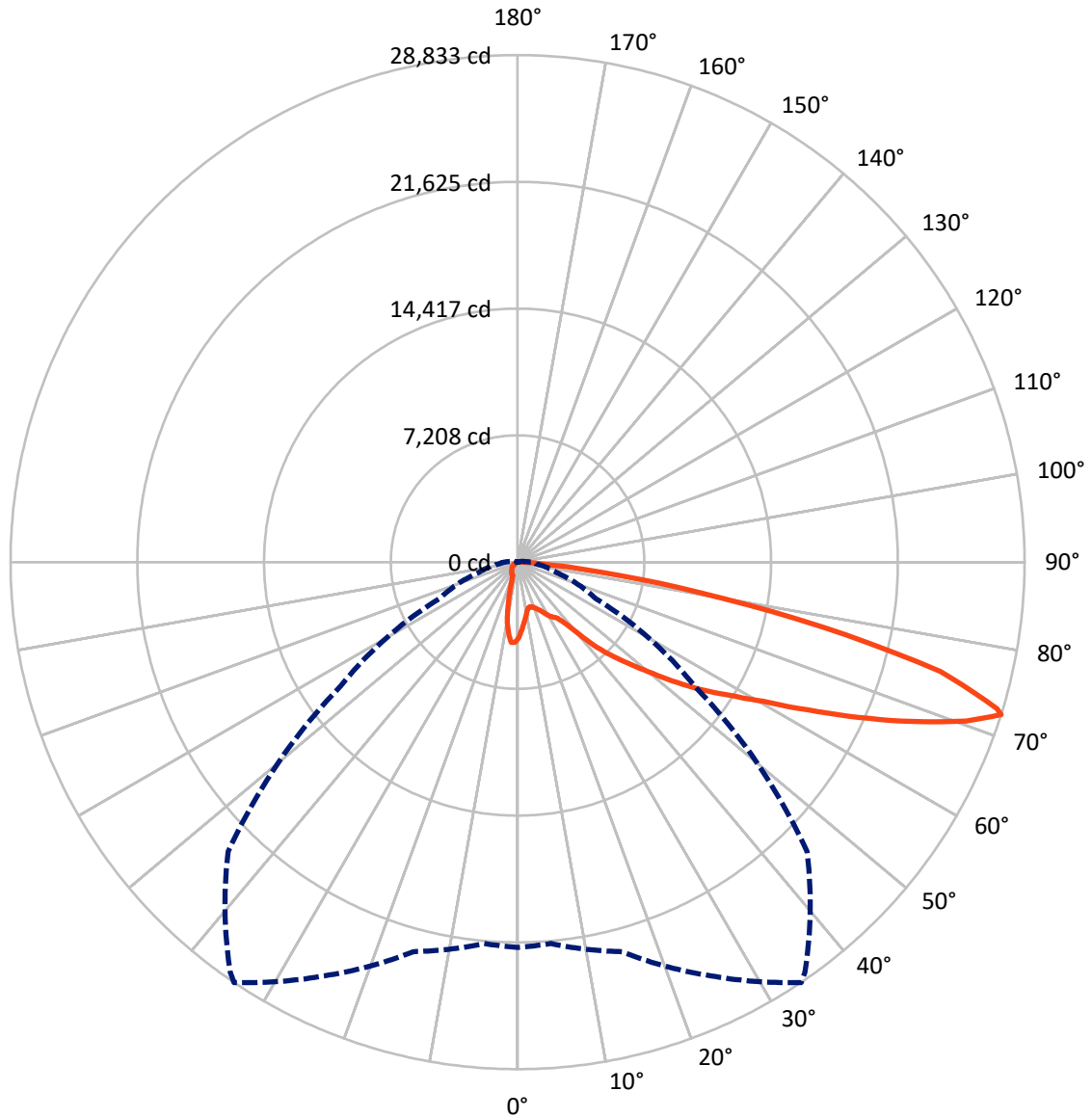
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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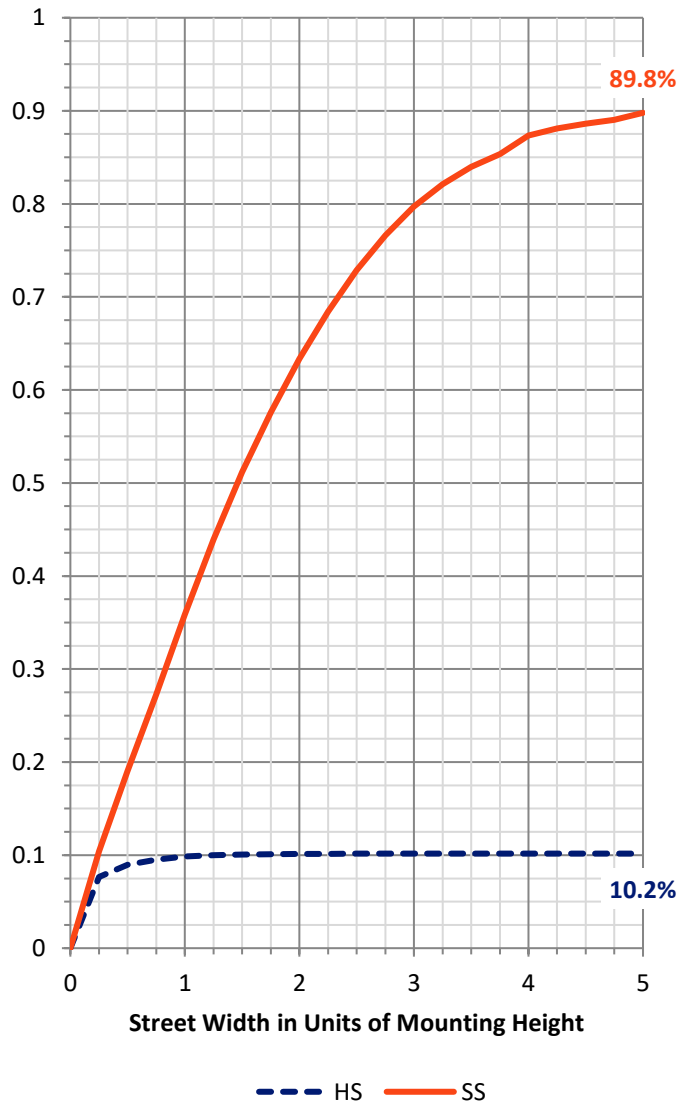
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.8	0.0	3039.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26652.8	0.0	26652.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	29692.7	0.0	29692.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.1	1.3
10°-20°	853.8	2.9
20°-30°	1288.6	4.3
30°-40°	2091.2	7.0
40°-50°	3932.4	13.2
50°-60°	6429.6	21.7
60°-70°	8547.3	28.8
70°-80°	5724.0	19.3
80°-90°	448.6	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°	29692.7	100.0
0°-180°	29692.7	100.0

Coefficient of Utilization

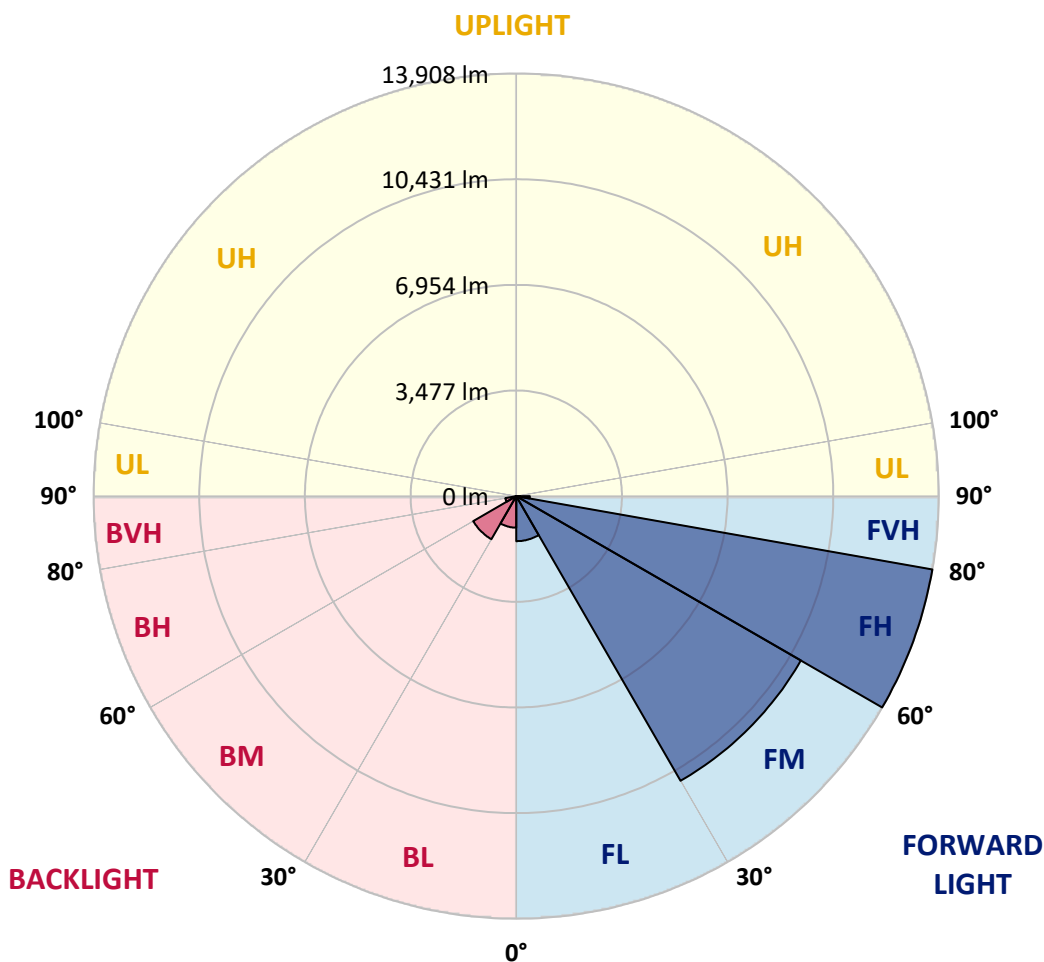


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.3	5.0			
FM (30°-60°)	10817.0	36.4			
FH (60°-80°)	13907.8	46.8			G5
FVH (80°-90°)	445.7	1.5			G3/500
BL (0°-30°)	1037.2	3.5	B3/2500		
BM (30°-60°)	1636.3	5.5	B2/2500		
BH (60°-80°)	363.5	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°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	3841.8	3833.2	3859.0	3901.9	3944.9	3927.7	4009.2	4095.1	4155.2	4236.7	4335.5
5°	3356.8	3378.2	3404.0	3489.8	3545.6	3558.5	3708.8	3820.4	4004.9	4193.8	4369.8
7.5°	2914.6	2940.4	2991.9	3086.3	3202.2	3232.3	3382.5	3605.7	3846.1	4095.1	4382.7
10°	2592.7	2618.5	2674.3	2734.4	2888.9	2888.9	3094.9	3404.0	3717.3	4009.2	4387.0
12.5°	2524.0	2536.9	2532.6	2579.8	2678.6	2700.0	2901.8	3240.9	3605.7	3979.2	4455.7
15°	2605.6	2614.2	2571.2	2545.5	2631.3	2652.8	2841.7	3142.1	3532.8	3996.4	4567.3
17.5°	2768.7	2738.6	2652.8	2614.2	2687.1	2700.0	2876.0	3137.9	3524.2	4043.6	4696.0
20°	2863.1	2897.5	2747.2	2674.3	2777.3	2794.5	2983.3	3206.5	3567.1	4125.1	4876.3
22.5°	3030.5	3047.7	2846.0	2798.7	2897.5	2897.5	3112.1	3343.9	3670.1	4258.2	5091.0
25°	3266.6	3245.2	3009.1	2961.9	3056.3	3094.9	3309.6	3562.8	3829.0	4382.7	5288.4
27.5°	3451.2	3464.1	3270.9	3146.4	3305.3	3331.0	3562.8	3798.9	3949.1	4485.7	5528.8
30°	3725.9	3700.2	3494.1	3352.5	3549.9	3554.2	3777.4	4022.1	4180.9	4670.3	5889.4
32.5°	4052.2	4000.7	3764.6	3562.8	3721.6	3760.3	3987.8	4344.1	4541.5	5018.0	6447.4
35°	4743.3	4618.8	4232.5	3919.1	3932.0	3949.1	4301.1	4811.9	5039.5	5460.1	7194.3
37.5°	5752.0	5700.5	5262.7	4666.0	4438.5	4387.0	4781.9	5430.1	5713.4	6043.9	8164.4
40°	6752.2	6679.2	6271.4	5820.7	5408.6	5305.6	5503.0	6250.0	6507.5	6855.2	9160.3
42.5°	7864.0	7735.2	7254.4	6889.5	6632.0	6520.4	6443.1	7280.2	7572.1	7808.1	10134.7
45°	8988.6	8778.3	8082.9	7803.9	7666.5	7606.4	7597.8	8576.5	8752.5	8799.7	11216.4
47.5°	9975.9	9748.4	9117.4	8804.0	8701.0	8683.8	9164.6	10070.3	9933.0	9808.5	12422.6
50°	10735.7	10589.7	10134.7	10023.1	9945.8	9915.8	11040.4	11607.1	10971.8	10752.8	13482.9
52.5°	11911.8	11585.6	11070.5	11109.1	11379.5	11383.8	12942.0	13066.5	11834.6	11401.0	14483.1
55°	12851.9	12637.3	12216.6	12160.8	12873.4	12950.6	14646.2	14174.0	12315.3	12019.1	14852.2
57.5°	13959.4	13860.6	13555.9	13564.5	14311.4	14474.5	16161.5	15109.8	12714.5	12418.3	14908.0
60°	15560.5	15277.2	15118.4	15191.3	16071.3	16230.1	17629.5	15783.7	12907.7	12680.2	14770.7
62.5°	17329.0	16998.5	16826.8	17200.2	18483.7	18509.5	18745.6	16380.4	12787.5	12748.9	13886.4
65°	19458.1	19131.9	18994.5	19745.7	21269.6	21175.1	20312.3	16633.6	12405.5	12057.8	11564.1
67.5°	21578.6	21381.2	21097.9	22295.5	24192.8	24192.8	21939.2	16539.2	11405.3	9679.7	7563.5
70°	22583.1	22720.5	23171.2	25051.3	27064.5	26858.5	23544.6	15453.2	8490.7	5198.3	2974.7
72°	21913.5	21771.8	22935.1	25952.8	28833.1	28493.9	23274.2	12285.3	4906.4	2279.3	1034.5
72.5°	20763.1	20896.1	22497.3	25828.3	28502.5	28781.5	22613.2	11332.3	4035.0	1815.7	781.2
75°	12731.7	12959.2	16792.5	21930.6	24836.7	24523.3	17492.1	5400.0	1549.6	772.7	279.0
77.5°	4648.8	4837.7	8147.3	13800.5	17663.8	17466.4	10121.8	1918.8	841.3	575.2	141.7
80°	1210.5	1309.2	2768.7	6365.9	10388.0	10400.8	4236.7	768.4	570.9	472.2	85.9
82.5°	240.4	266.1	849.9	2476.8	4854.9	4790.5	1339.3	412.1	429.3	386.3	60.1
85°	30.0	38.6	180.3	841.3	1571.1	1408.0	330.5	206.0	317.6	300.5	38.6
87.5°	4.3	4.3	42.9	193.2	330.5	321.9	68.7	64.4	141.7	184.6	21.5
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°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	4391.3	4408.4	4468.5	4520.1	4580.2	4597.3	4571.6	4614.5	4554.4	4588.7	4597.3
5°	4399.9	4498.6	4610.2	4683.2	4666.0	4623.1	4588.7	4472.8	4391.3	4361.2	4425.6
7.5°	4460.0	4571.6	4691.8	4691.8	4597.3	4374.1	4159.5	3953.4	3781.7	3695.9	3768.9
10°	4537.2	4653.1	4777.6	4614.5	4262.5	3854.7	3549.9	3163.6	2901.8	2764.4	2777.3
12.5°	4640.2	4803.4	4846.3	4468.5	3884.8	3279.5	2725.8	2189.2	1940.2	1742.8	1747.1
15°	4773.3	4932.1	4803.4	4150.9	3404.0	2511.1	1845.8	1335.0	1137.5	1034.5	1034.5
17.5°	4949.3	5069.5	4790.5	3859.0	2755.8	1717.0	1133.2	901.4	858.5	841.3	841.3
20°	5155.4	5245.5	4666.0	3404.0	2047.5	1103.2	832.8	807.0	811.3	802.7	802.7
22.5°	5387.2	5417.2	4524.3	2876.0	1386.5	815.6	777.0	781.2	785.5	777.0	781.2
25°	5631.8	5550.3	4318.3	2257.9	922.9	742.6	751.2	759.8	764.1	768.4	768.4
27.5°	5906.5	5743.4	4030.7	1652.6	721.1	699.7	725.4	751.2	755.5	755.5	751.2
30°	6310.0	6039.6	3751.7	1120.4	635.3	652.5	695.4	725.4	746.9	746.9	742.6
32.5°	6820.9	6348.7	3361.1	764.1	588.1	596.7	631.0	691.1	738.3	742.6	729.7
35°	7529.1	6722.1	2953.3	609.5	553.7	558.0	579.5	626.7	708.3	734.0	729.7
37.5°	8276.0	7147.1	2446.8	549.4	528.0	523.7	536.6	575.2	648.2	712.6	716.9
40°	9070.2	7593.5	1914.5	519.4	506.5	497.9	502.2	519.4	575.2	656.8	673.9
42.5°	9817.1	7997.0	1438.0	489.4	485.1	476.5	476.5	480.8	510.8	566.6	575.2
45°	10624.1	8327.5	1094.6	467.9	455.0	459.3	442.1	433.5	455.0	459.3	455.0
47.5°	11379.5	8658.1	875.7	442.1	429.3	429.3	407.8	390.6	390.6	352.0	347.7
50°	12087.8	8838.4	699.7	407.8	403.5	399.2	369.2	339.1	313.4	266.1	257.6
52.5°	12675.9	8829.8	540.9	364.9	377.7	364.9	317.6	274.7	236.1	193.2	184.6
55°	12851.9	8417.7	407.8	300.5	321.9	304.8	253.3	214.6	171.7	137.4	133.1
57.5°	12701.7	7791.0	309.1	231.8	249.0	231.8	193.2	158.8	120.2	94.4	85.9
60°	12199.4	7057.0	240.4	180.3	188.9	176.0	145.9	120.2	85.9	60.1	51.5
62.5°	11246.5	6138.3	184.6	141.7	137.4	137.4	111.6	90.1	60.1	34.3	30.0
65°	9229.0	4786.2	141.7	98.7	98.7	98.7	85.9	64.4	38.6	17.2	8.6
67.5°	5794.9	2785.9	115.9	77.3	73.0	73.0	60.1	42.9	21.5	4.3	0.0
70°	2180.6	1021.6	90.1	60.1	55.8	55.8	42.9	25.8	12.9	0.0	0.0
72°	751.2	390.6	73.0	42.9	42.9	38.6	30.0	21.5	8.6	0.0	0.0
72.5°	618.1	313.4	68.7	42.9	38.6	38.6	30.0	21.5	8.6	0.0	0.0
75°	223.2	128.8	47.2	30.0	25.8	25.8	21.5	12.9	4.3	0.0	0.0
77.5°	111.6	81.6	38.6	25.8	21.5	12.9	12.9	8.6	4.3	0.0	0.0
80°	68.7	51.5	21.5	17.2	12.9	8.6	4.3	4.3	0.0	0.0	0.0
82.5°	47.2	30.0	12.9	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.0	12.9	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	8.6	4.3	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)