

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: P479953

Luminaire Tested: **IFLD-S-SA3D-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

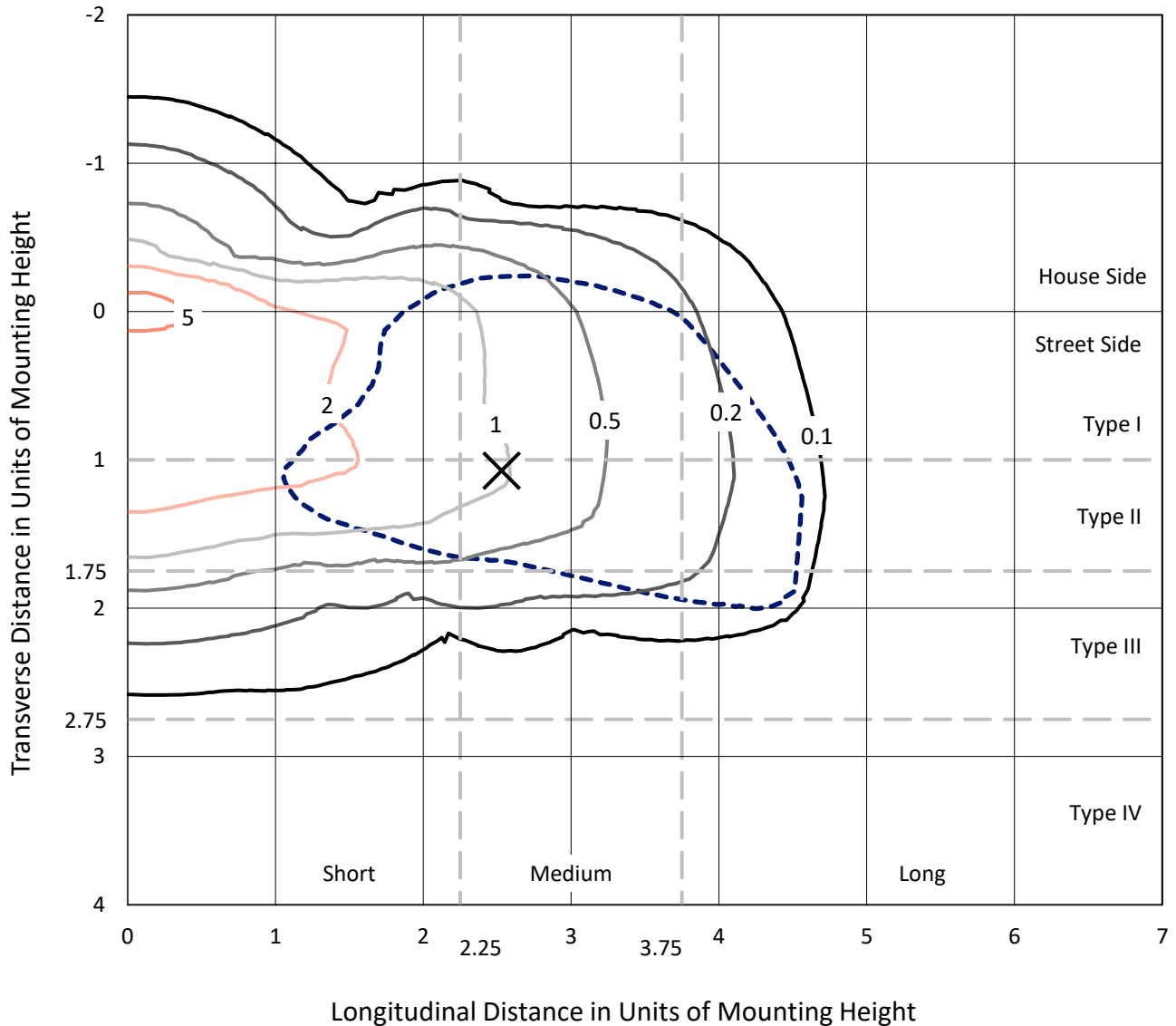
Lumens per Lamp: N/A
Luminaire Lumens: 17117.4 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

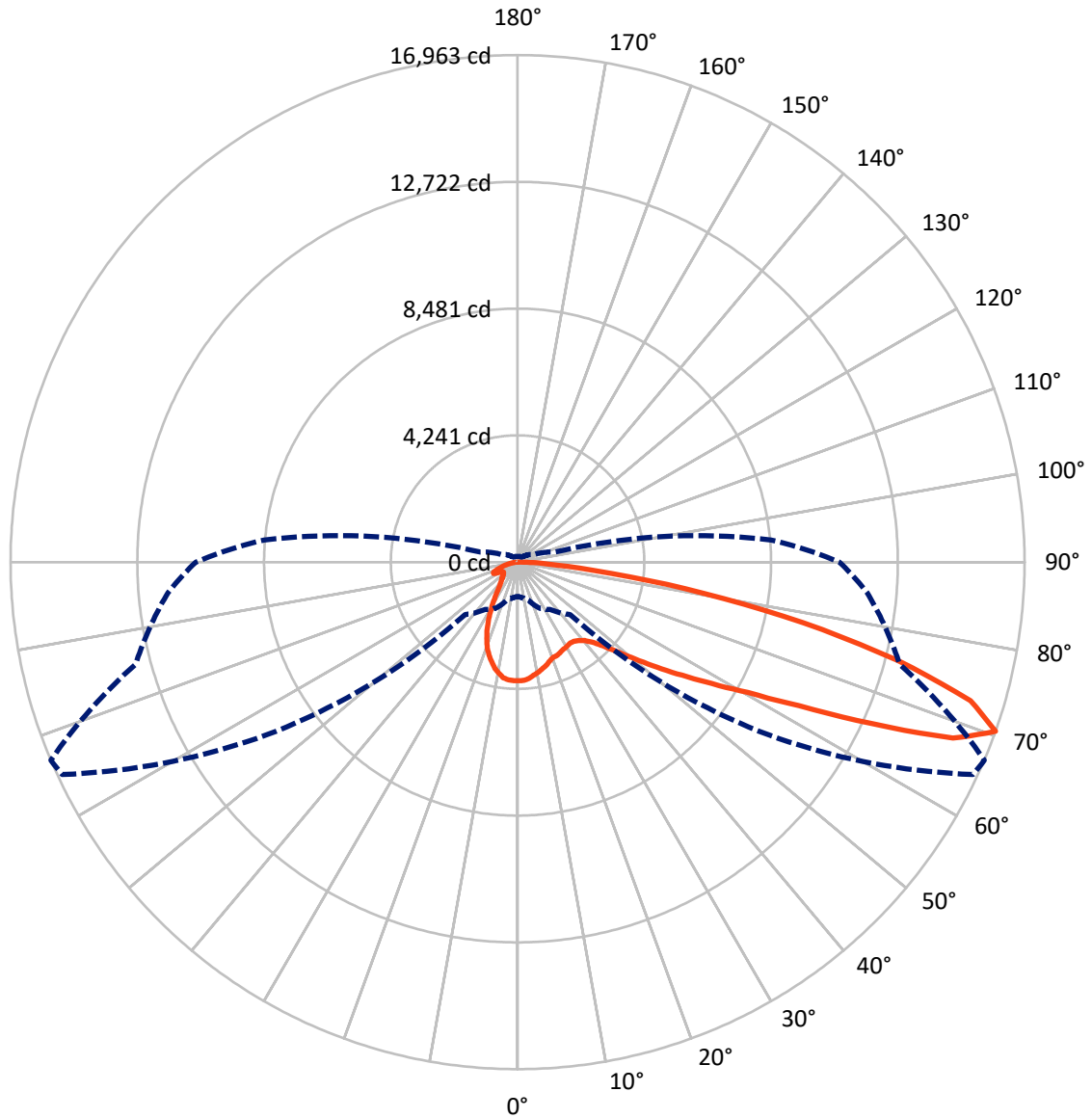
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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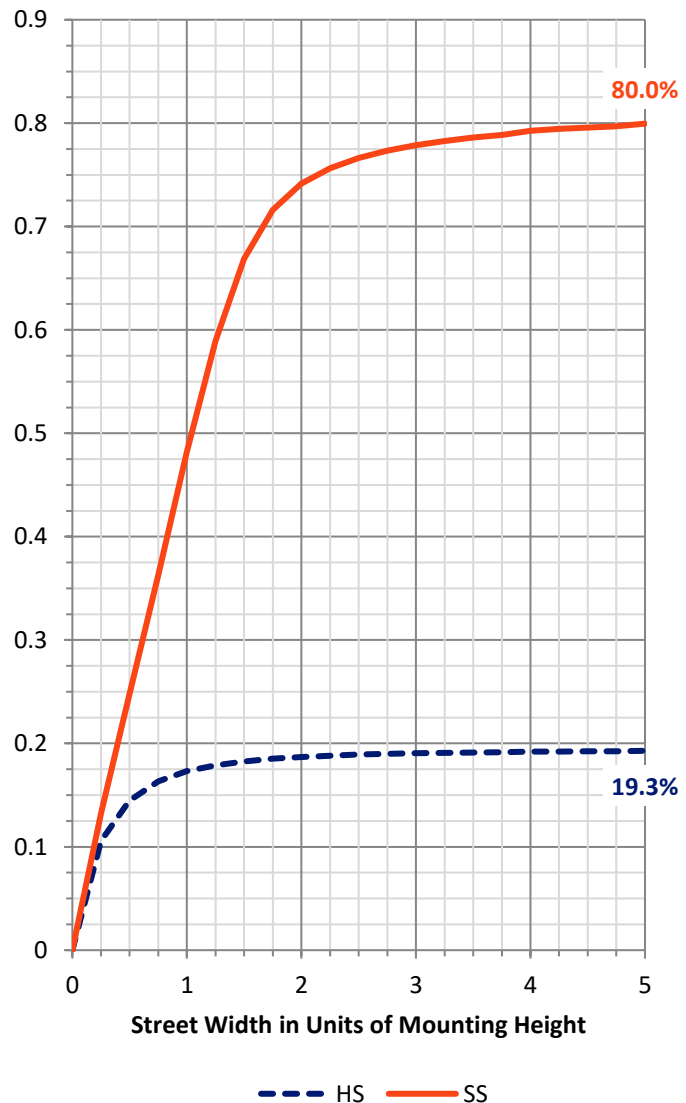
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.8	0.0	3333.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13783.7	0.0	13783.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	17117.4	0.0	17117.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	2.0
10°-20°	828.1	4.8
20°-30°	1118.2	6.5
30°-40°	1496.3	8.7
40°-50°	2200.3	12.9
50°-60°	3429.6	20.0
60°-70°	4224.8	24.7
70°-80°	2985.2	17.4
80°-90°	489.3	2.9
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°	17117.4	100.0
0°-180°	17117.4	100.0

Coefficient of Utilization

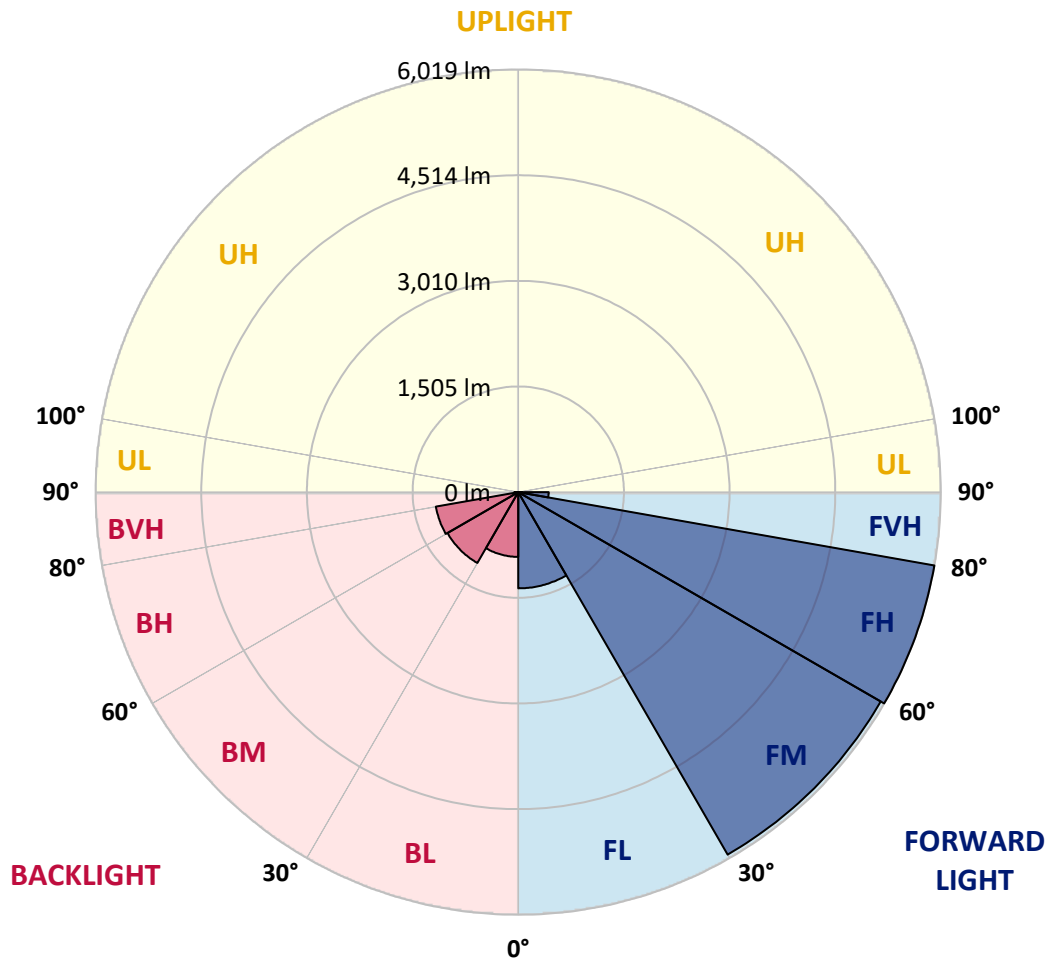


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.1	8.0			
FM (30°-60°)	5961.6	34.8			
FH (60°-80°)	6019.1	35.2			G3/7500
FVH (80°-90°)	432.8	2.5			G3/500
BL (0°-30°)	921.9	5.4	B2/1000		
BM (30°-60°)	1164.6	6.8	B2/2500		
BH (60°-80°)	1190.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	56.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
2.5°	3689.7	3731.4	3746.6	3769.3	3828.1	3871.7	3898.2	3928.5	3964.5	3994.8	4013.8
5°	3432.0	3454.7	3490.8	3515.4	3589.3	3706.8	3786.4	3915.3	3911.5	3958.8	4030.9
7.5°	3181.9	3204.6	3221.7	3270.9	3377.0	3483.2	3629.1	3837.6	3822.4	3932.3	4044.1
10°	3026.5	3009.4	3015.1	3098.5	3181.9	3301.2	3485.1	3697.3	3752.3	3922.8	4082.0
12.5°	2880.5	2861.6	2907.1	2960.1	3062.5	3170.5	3390.3	3581.7	3665.1	3888.7	4099.1
15°	2789.6	2776.3	2833.2	2855.9	2977.2	3106.1	3261.4	3494.5	3585.5	3847.0	4072.5
17.5°	2738.4	2749.8	2770.6	2819.9	2897.6	3007.5	3178.1	3435.8	3475.6	3795.9	4066.9
20°	2747.9	2761.1	2763.0	2783.9	2836.9	2922.2	3096.6	3373.3	3399.8	3786.4	4082.0
22.5°	2823.7	2804.7	2812.3	2799.0	2814.2	2880.5	3034.0	3289.9	3392.2	3706.8	4049.8
25°	2937.4	2910.9	2907.1	2861.6	2833.2	2852.1	3022.7	3269.0	3335.4	3682.2	4047.9
27.5°	3138.3	3098.5	3098.5	3030.2	2914.6	2884.3	2990.5	3234.9	3293.7	3659.4	4004.3
30°	3331.6	3331.6	3333.5	3236.8	3107.9	2958.2	3003.7	3221.7	3259.6	3591.2	3945.6
32.5°	3566.6	3560.9	3551.4	3504.0	3305.0	3081.4	3068.1	3204.6	3223.5	3568.5	3928.5
35°	3795.9	3780.7	3854.6	3812.9	3610.1	3322.1	3134.5	3212.2	3253.9	3534.3	3875.5
37.5°	3968.3	3977.8	4131.3	4157.8	3983.5	3595.0	3322.1	3288.0	3327.8	3583.6	3875.5
40°	4191.9	4229.8	4373.9	4462.9	4356.8	3955.1	3619.6	3415.0	3443.4	3693.5	3958.8
42.5°	4485.7	4517.9	4701.7	4817.3	4787.0	4413.7	3913.4	3680.3	3657.5	3877.4	4083.9
45°	4874.2	4879.9	5065.6	5224.8	5287.3	4893.1	4379.6	4015.7	3996.7	4193.8	4313.2
47.5°	5336.6	5330.9	5446.5	5617.0	5785.7	5465.4	4915.9	4525.5	4457.2	4646.8	4694.1
50°	5783.8	5759.2	5785.7	6003.6	6327.7	6181.8	5567.8	5149.0	5080.7	5185.0	5266.5
52.5°	6030.2	6060.5	5988.5	6276.5	6903.8	7028.9	6431.9	5893.7	5835.0	5886.1	6028.3
55°	5857.7	5920.3	5872.9	6145.8	7155.9	8061.7	7550.0	6756.0	6680.2	6661.2	6894.3
57.5°	5124.3	5238.0	5247.5	5679.6	7068.7	8861.4	9123.0	7773.7	7660.0	7466.7	7707.3
60°	3934.2	4047.9	4135.1	4646.8	6322.0	9339.0	10946.0	9221.5	8846.3	8346.0	8490.0
62.5°	2757.4	2835.1	2922.2	3236.8	4874.2	9058.5	12522.7	11260.6	10568.9	9272.7	9452.7
65°	2008.8	2069.4	2158.5	2344.2	2994.2	7495.1	13254.3	13682.5	13026.8	10451.4	10428.7
67.5°	1512.3	1550.2	1667.7	1965.2	2075.1	4629.7	12496.2	16240.9	15710.3	11760.9	11213.2
70°	1144.6	1176.9	1286.8	1694.2	1938.7	2482.6	9858.3	16811.3	16962.9	13229.6	11740.1
72.5°	788.4	824.4	947.5	1411.8	1845.8	1969.0	6187.5	15272.5	15846.7	13834.2	11175.3
75°	483.2	507.9	579.9	1070.7	1832.6	1925.4	3405.5	12515.2	13123.5	12782.4	9776.8
77.5°	341.1	339.2	352.5	627.3	1588.1	1936.8	2099.8	9170.3	9761.6	9420.5	6634.7
80°	248.3	250.2	263.4	375.2	1078.3	1969.0	1654.4	6142.0	6318.2	4912.1	2617.1
82.5°	149.7	157.3	189.5	253.9	648.1	1777.6	1529.3	3413.1	3193.2	1576.7	720.1
85°	79.6	79.6	111.8	161.1	344.9	1326.6	1472.5	1624.1	1360.7	488.9	267.2
87.5°	19.0	19.0	32.2	64.4	138.3	634.9	1004.4	646.2	517.4	164.9	109.9
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°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
2.5°	4006.2	3983.5	4011.9	3955.1	3909.6	3911.5	3841.3	3837.6	3828.1	3778.8	3795.9
5°	4051.7	4032.7	4000.5	3938.0	3837.6	3737.1	3676.5	3598.8	3566.6	3549.5	3557.1
7.5°	4095.3	4061.2	3968.3	3881.1	3725.7	3536.2	3426.3	3322.1	3189.4	3174.3	3147.7
10°	4106.7	4034.6	3915.3	3729.5	3523.0	3312.6	3062.5	2869.2	2766.8	2687.2	2656.9
12.5°	4089.6	4059.3	3830.0	3591.2	3278.5	2948.8	2656.9	2384.0	2194.5	2096.0	2069.4
15°	4087.7	4034.6	3735.2	3380.8	2981.0	2550.8	2135.8	1807.9	1608.9	1527.4	1527.4
17.5°	4089.6	3962.6	3623.4	3168.6	2630.4	2048.6	1591.9	1322.8	1212.9	1201.5	1211.0
20°	4051.7	3909.6	3505.9	2918.4	2190.7	1538.8	1156.0	1046.1	1046.1	1061.2	1066.9
22.5°	4017.6	3830.0	3320.2	2609.5	1743.5	1114.3	940.0	907.7	943.8	970.3	981.7
25°	3970.2	3763.6	3130.7	2289.3	1326.6	898.3	816.8	824.4	858.5	905.9	902.1
27.5°	3902.0	3648.0	2905.2	1917.8	987.3	775.1	754.2	758.0	794.0	814.9	811.1
30°	3824.3	3530.6	2696.7	1548.3	782.7	710.7	708.8	718.2	723.9	735.3	733.4
32.5°	3725.7	3375.2	2475.0	1203.4	705.0	674.7	667.1	661.4	667.1	665.2	659.5
35°	3655.6	3291.8	2249.5	917.2	661.4	642.4	636.7	627.3	619.7	608.3	606.4
37.5°	3636.7	3208.4	2012.6	748.6	627.3	617.8	598.8	581.8	572.3	566.6	562.8
40°	3625.3	3153.4	1781.4	657.6	598.8	589.4	566.6	543.9	534.4	528.7	530.6
42.5°	3665.1	3123.1	1546.4	612.1	574.2	557.2	532.5	506.0	504.1	500.3	506.0
45°	3805.3	3161.0	1328.5	579.9	549.6	521.1	488.9	475.7	473.8	470.0	473.8
47.5°	4123.7	3255.8	1142.7	559.1	523.0	498.4	464.3	445.3	443.5	441.6	441.6
50°	4563.4	3547.6	987.3	534.4	506.0	471.9	439.7	418.8	415.0	407.4	407.4
52.5°	5253.2	4038.4	894.5	521.1	475.7	447.2	413.1	390.4	380.9	373.3	373.3
55°	6030.2	4646.8	877.4	498.4	443.5	416.9	386.6	363.9	354.4	344.9	341.1
57.5°	6915.2	5452.2	998.7	483.2	420.7	386.6	352.5	331.6	324.1	314.6	310.8
60°	7739.5	6255.7	1375.8	460.5	399.9	358.2	324.1	303.2	293.7	284.3	284.3
62.5°	8692.8	7250.6	2014.5	460.5	380.9	327.9	293.7	278.6	272.9	263.4	261.5
65°	9820.4	8279.6	2480.7	488.9	375.2	301.3	265.3	250.2	244.5	238.8	236.9
67.5°	10678.8	8870.9	2133.9	564.7	399.9	278.6	236.9	227.4	223.6	217.9	214.1
70°	10769.8	8510.8	1286.8	610.2	424.5	255.8	212.2	202.8	202.8	197.1	193.3
72.5°	9953.0	7551.9	866.1	543.9	384.7	229.3	187.6	180.0	176.2	172.5	170.6
75°	8328.9	6405.4	684.1	434.0	295.6	189.5	163.0	155.4	149.7	147.8	144.0
77.5°	5594.3	4163.5	506.0	339.2	217.9	153.5	136.4	128.9	123.2	121.3	115.6
80°	2149.0	1586.2	326.0	246.4	153.5	121.3	108.0	100.4	96.6	91.0	87.2
82.5°	633.0	513.6	181.9	151.6	98.5	83.4	77.7	72.0	66.3	60.6	58.7
85°	261.5	235.0	111.8	79.6	60.6	49.3	45.5	39.8	34.1	30.3	26.5
87.5°	121.3	100.4	51.2	30.3	20.8	11.4	5.7	1.9	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)