

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: P484294

Luminaire Tested: **IFLD-S-SA6A-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

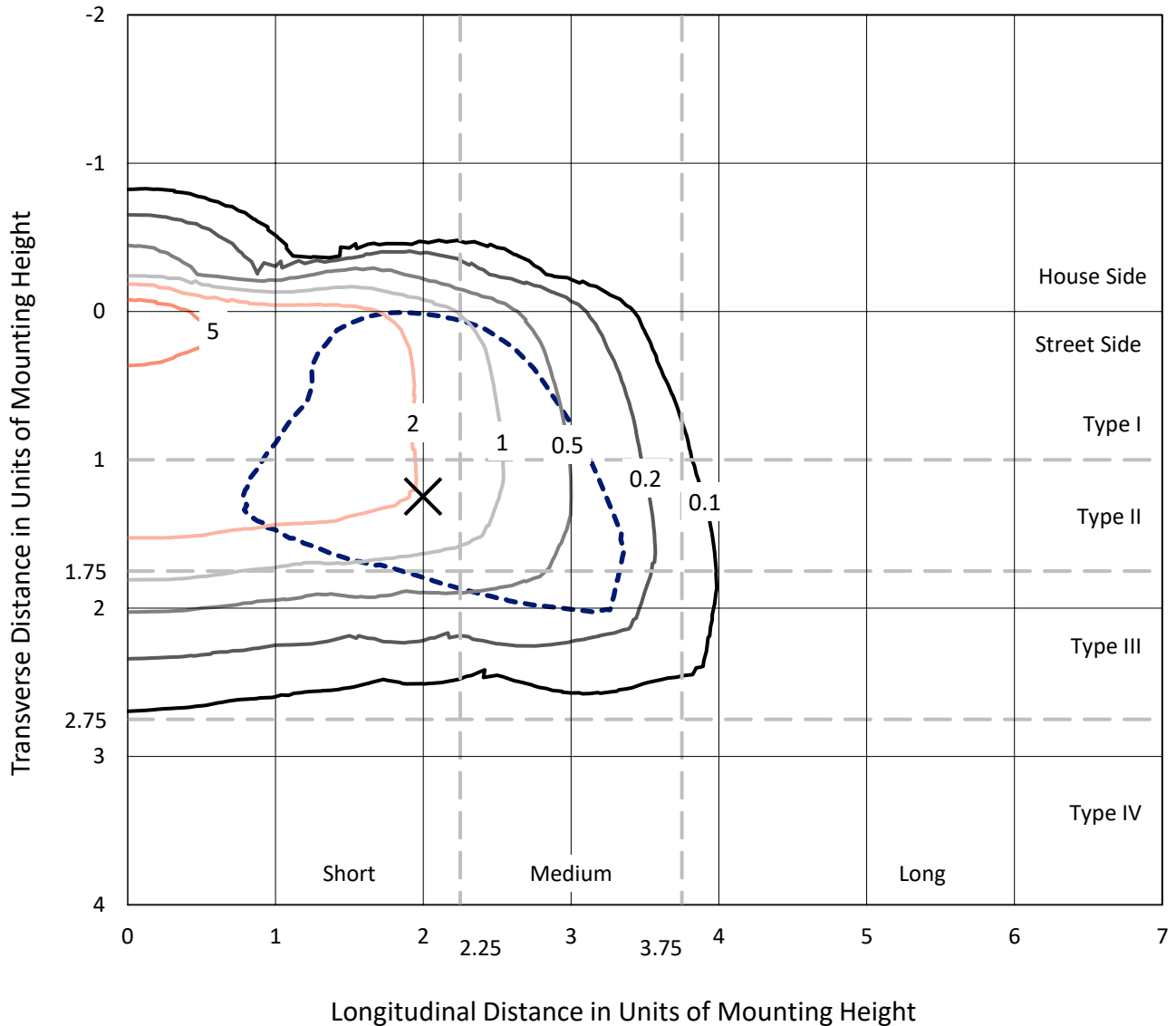
Lumens per Lamp: N/A
Luminaire Lumens: 18876.6 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

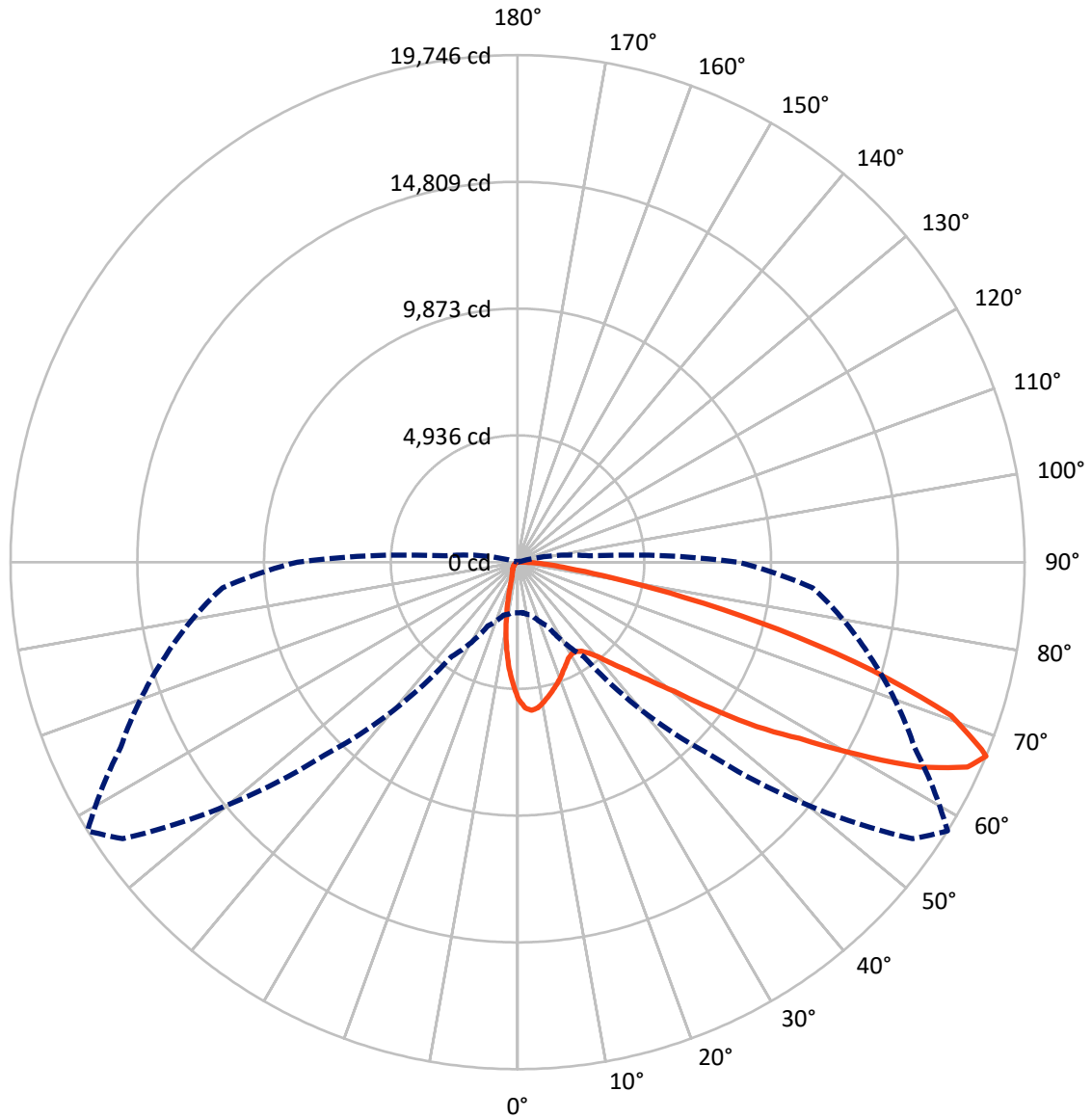
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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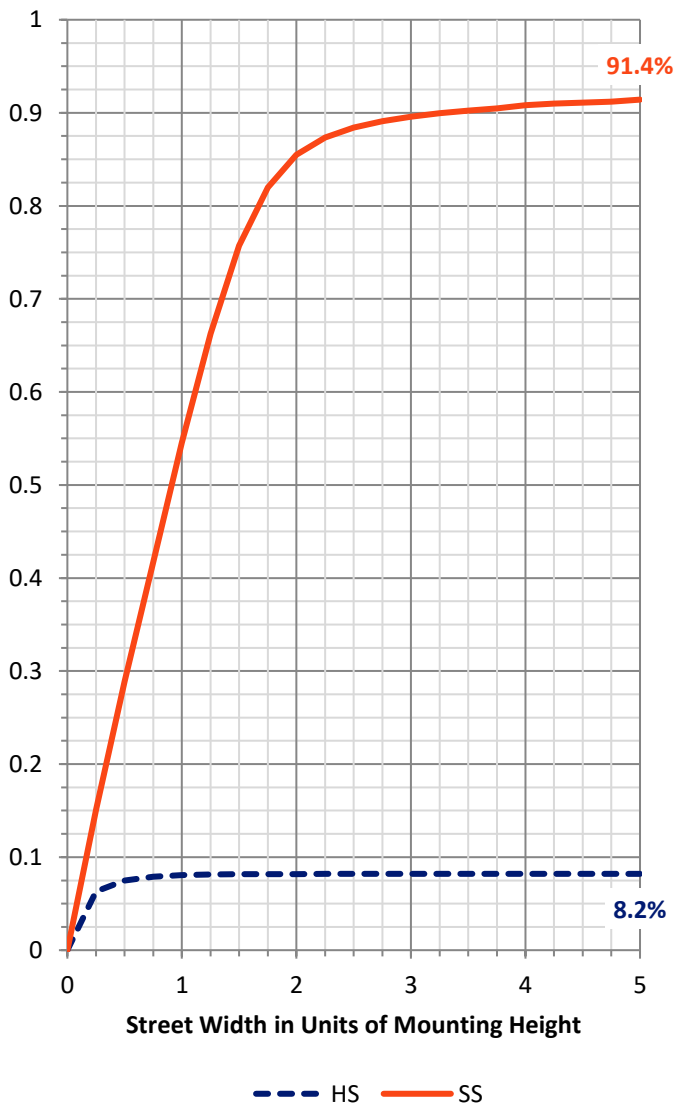
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.3	0.0	1560.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17316.3	0.0	17316.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	18876.6	0.0	18876.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	2.2
10°-20°	880.2	4.7
20°-30°	1167.8	6.2
30°-40°	1618.2	8.6
40°-50°	2640.4	14.0
50°-60°	4641.0	24.6
60°-70°	5140.2	27.2
70°-80°	2130.1	11.3
80°-90°	234.5	1.2
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°	18876.6	100.0
0°-180°	18876.6	100.0



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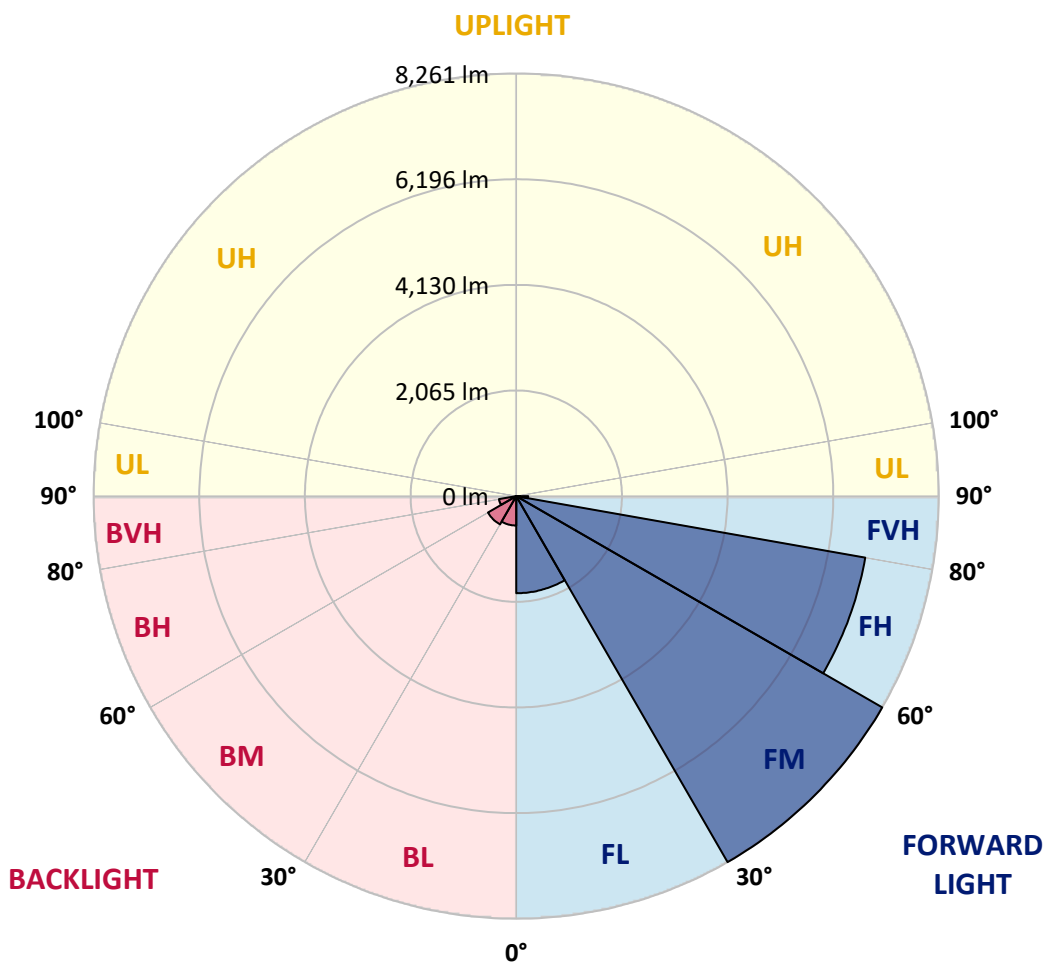
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.6	10.1			
FM (30°-60°)	8260.8	43.8			
FH (60°-80°)	6927.3	36.7			G3/7500
FVH (80°-90°)	230.6	1.2			G3/500
BL (0°-30°)	574.7	3.0	B2/1000		
BM (30°-60°)	638.7	3.4	B1/1000		
BH (60°-80°)	343.0	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5819.1	5839.2	5856.7	5824.2	5851.7	5811.6	5708.9	5686.3	5668.8	5515.9	5428.2
5°	5816.6	5794.1	5811.6	5826.7	5789.1	5819.1	5794.1	5796.6	5728.9	5591.1	5345.5
7.5°	5428.2	5418.2	5428.2	5500.9	5583.6	5648.7	5686.3	5723.9	5678.8	5473.3	5235.2
10°	4904.4	4954.5	4982.1	5112.4	5240.2	5360.5	5478.3	5548.5	5536.0	5453.3	5114.9
12.5°	4538.5	4523.5	4623.7	4708.9	4836.8	5079.8	5285.3	5350.5	5425.7	5310.4	4957.0
15°	4200.2	4160.1	4220.3	4368.1	4586.1	4779.1	5067.3	5165.1	5260.3	5290.4	4871.8
17.5°	3876.9	3897.0	3959.6	4092.4	4297.9	4568.6	4839.3	4979.6	5207.7	5167.6	4744.0
20°	3721.5	3764.1	3786.7	3854.4	3997.2	4267.9	4671.4	4784.1	5027.2	5165.1	4618.7
22.5°	3729.1	3729.1	3676.4	3716.5	3846.8	4057.4	4443.3	4568.6	4954.5	5034.7	4506.0
25°	3809.3	3759.1	3761.6	3714.0	3769.2	3884.4	4237.8	4390.7	4806.7	5047.3	4445.8
27.5°	3869.4	3859.4	3844.3	3831.8	3761.6	3779.2	4102.5	4227.8	4749.0	5032.2	4353.1
30°	4087.4	4042.3	4027.3	3999.7	3907.0	3821.8	3994.7	4152.6	4703.9	5067.3	4300.5
32.5°	4270.4	4277.9	4290.4	4210.2	4130.0	3919.5	4024.8	4150.1	4671.4	5147.5	4353.1
35°	4500.9	4533.5	4538.5	4513.5	4428.3	4220.3	4150.1	4257.8	4726.5	5290.4	4358.1
37.5°	4851.8	4816.7	4911.9	4922.0	4861.8	4586.1	4440.8	4483.4	4889.4	5518.4	4548.6
40°	5079.8	5122.4	5300.4	5410.6	5307.9	5057.3	4861.8	4854.3	5125.0	5876.8	4784.1
42.5°	5333.0	5428.2	5623.7	5861.7	5849.2	5616.1	5418.2	5385.6	5543.5	6395.5	5157.5
45°	5678.8	5764.0	6037.2	6395.5	6591.0	6393.0	6094.8	6029.7	6052.2	7102.3	5794.1
47.5°	6252.7	6230.1	6623.6	6977.0	7297.7	7144.9	7017.1	6826.6	6809.0	7934.3	6673.7
50°	6901.8	6896.8	7247.6	7648.6	8019.5	8317.7	8104.7	7896.7	7901.7	9064.5	7708.7
52.5°	7518.3	7616.0	7994.4	8392.9	9029.4	9350.2	9555.7	9473.0	9074.6	10074.5	8816.4
55°	7844.1	7929.3	8305.2	8991.9	9996.8	10821.3	11377.7	11307.5	10538.1	11212.2	9909.1
57.5°	7535.8	7593.5	8102.2	9001.9	10673.4	12512.9	13046.7	12959.0	12051.8	12081.9	11229.8
60°	6245.2	6335.4	7092.2	8147.3	10410.3	13816.1	15344.8	15212.0	13430.1	13182.0	12079.4
62.5°	4325.5	4385.7	5007.2	6320.4	9162.3	14269.7	17515.1	17587.7	14883.7	14039.1	12332.5
65°	2801.8	2796.8	3152.7	4042.3	6493.3	12896.3	18798.2	19249.3	16287.1	14169.4	12254.8
67°	1979.8	1972.3	2140.2	2741.7	4495.9	10625.8	18775.6	19745.5	17048.9	14207.0	11535.5
67.5°	1826.9	1819.4	1979.8	2521.1	4057.4	9881.5	18494.9	19489.9	17317.1	14154.4	11219.8
70°	1418.4	1398.4	1458.5	1736.7	2363.2	6390.5	15828.5	17903.5	16760.7	12841.2	8959.3
72.5°	1025.0	1047.5	1142.8	1426.0	1854.5	3438.4	12064.3	14477.7	13999.0	9678.5	5693.8
75°	714.2	734.3	887.2	1162.8	1701.6	2085.1	8157.3	10500.5	9751.2	5343.0	2425.9
77.5°	373.4	398.5	566.4	929.8	1546.3	1613.9	4874.3	6658.7	5167.6	1902.1	669.1
80°	172.9	185.5	283.2	659.1	1293.1	1418.4	2841.9	3704.0	2067.5	426.0	230.6
82.5°	75.2	82.7	130.3	378.4	917.2	1240.5	1759.3	1942.2	749.3	137.8	142.8
85°	15.0	17.5	50.1	200.5	443.6	751.8	1235.5	1152.8	375.9	67.7	112.8
87.5°	0.0	0.0	12.5	57.6	120.3	223.0	523.8	523.8	115.3	35.1	42.6
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°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5350.5	5260.3	5062.3	4879.4	4749.0	4601.2	4405.7	4318.0	4285.4	4240.3	4172.6
5°	5210.2	5099.9	4761.6	4420.7	4047.3	3764.1	3463.4	3288.0	3155.2	3072.5	3044.9
7.5°	5012.2	4786.6	4330.5	3784.2	3300.5	2879.5	2423.4	2115.1	1917.2	1837.0	1761.8
10°	4854.3	4561.1	3866.9	3187.7	2543.7	1927.2	1413.4	1142.8	937.3	859.6	849.6
12.5°	4648.8	4297.9	3433.3	2578.8	1769.3	1147.8	781.9	679.2	621.5	611.5	604.0
15°	4478.4	4059.9	3022.3	1997.4	1145.3	716.7	609.0	583.9	568.9	563.9	566.4
17.5°	4363.1	3804.2	2601.3	1453.5	754.3	586.4	561.4	546.3	538.8	536.3	528.8
20°	4135.0	3588.7	2185.3	1017.5	588.9	541.3	521.3	508.7	501.2	498.7	496.2
22.5°	4004.7	3315.6	1769.3	709.2	523.8	491.2	476.2	466.1	453.6	446.1	443.6
25°	3874.4	3115.1	1398.4	551.3	476.2	453.6	431.0	418.5	398.5	388.4	385.9
27.5°	3721.5	2917.1	1077.6	478.7	428.5	406.0	383.4	363.4	338.3	328.3	323.3
30°	3633.8	2724.1	812.0	428.5	393.5	363.4	335.8	310.8	283.2	265.6	260.6
32.5°	3588.7	2548.7	609.0	391.0	355.9	323.3	288.2	258.1	233.1	218.0	215.5
35°	3533.6	2378.3	478.7	355.9	320.8	285.7	250.6	220.5	195.5	182.9	177.9
37.5°	3591.2	2278.0	398.5	328.3	293.2	253.1	215.5	185.5	165.4	152.9	150.4
40°	3749.1	2195.3	345.8	303.2	265.6	223.0	188.0	157.9	140.3	130.3	125.3
42.5°	3992.2	2195.3	313.3	278.2	240.6	195.5	160.4	137.8	120.3	110.3	107.8
45°	4433.3	2263.0	285.7	253.1	210.5	167.9	137.8	115.3	97.7	87.7	85.2
47.5°	5052.3	2418.4	263.1	230.6	188.0	147.9	120.3	97.7	80.2	70.2	67.7
50°	5884.3	2771.7	240.6	203.0	167.9	127.8	100.2	77.7	62.7	52.6	50.1
52.5°	6921.8	3273.0	218.0	188.0	142.8	107.8	80.2	62.7	47.6	40.1	37.6
55°	8019.5	3886.9	190.5	167.9	122.8	90.2	65.2	47.6	35.1	30.1	27.6
57.5°	9124.7	4360.6	167.9	145.4	100.2	72.7	52.6	37.6	25.1	20.0	17.5
60°	9711.1	4405.7	145.4	120.3	80.2	57.6	40.1	27.6	17.5	12.5	10.0
62.5°	9801.3	4004.7	125.3	97.7	65.2	45.1	27.6	20.0	10.0	5.0	5.0
65°	9337.7	3338.1	107.8	77.7	50.1	32.6	20.0	12.5	5.0	2.5	0.0
67°	8585.9	2796.8	92.7	65.2	40.1	25.1	15.0	7.5	2.5	0.0	0.0
67.5°	8295.2	2646.4	87.7	60.1	37.6	22.6	12.5	7.5	2.5	0.0	0.0
70°	6438.1	1889.6	65.2	42.6	27.6	17.5	10.0	5.0	0.0	0.0	0.0
72.5°	3944.6	1105.2	50.1	30.1	20.0	12.5	7.5	2.5	0.0	0.0	0.0
75°	1654.0	380.9	42.6	22.6	15.0	7.5	5.0	2.5	0.0	0.0	0.0
77.5°	431.0	142.8	30.1	15.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
80°	175.4	65.2	20.0	10.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
82.5°	115.3	30.1	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	87.7	17.5	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	37.6	10.0	7.5	5.0	5.0	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)