

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: P484929

Luminaire Tested: **IFLD-L-SA7B-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

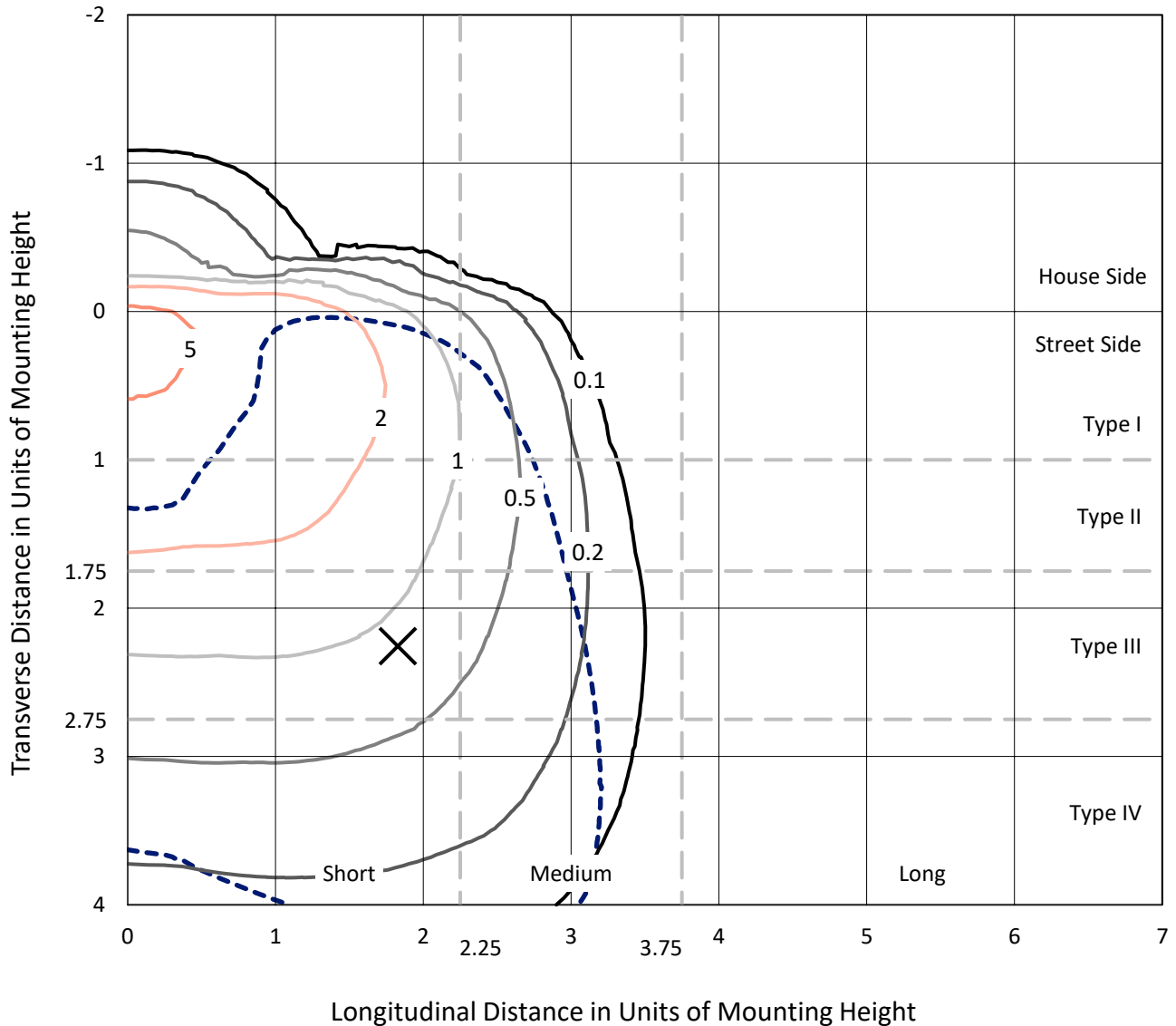
Lumens per Lamp: N/A
Luminaire Lumens: 21626.5 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

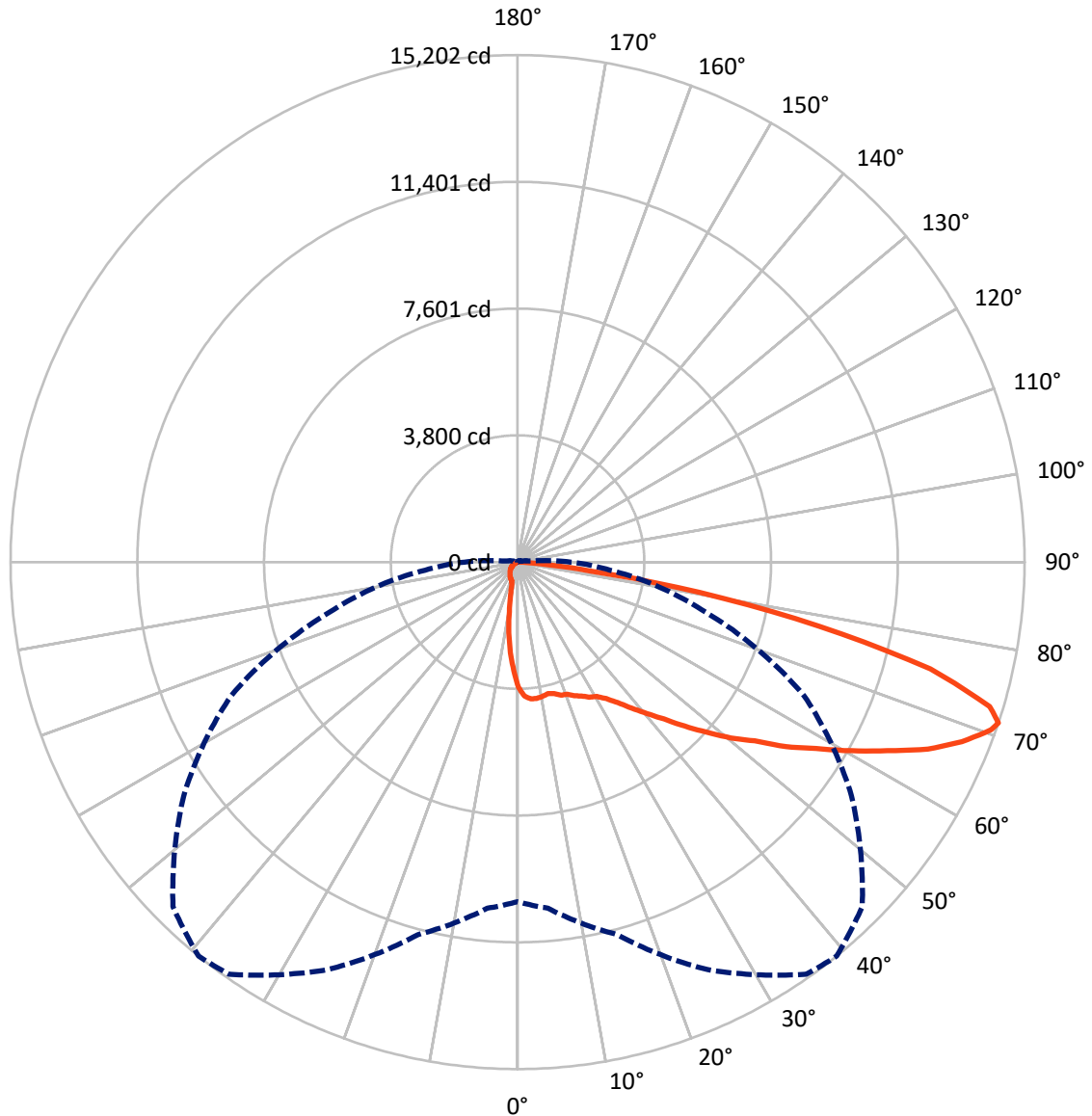
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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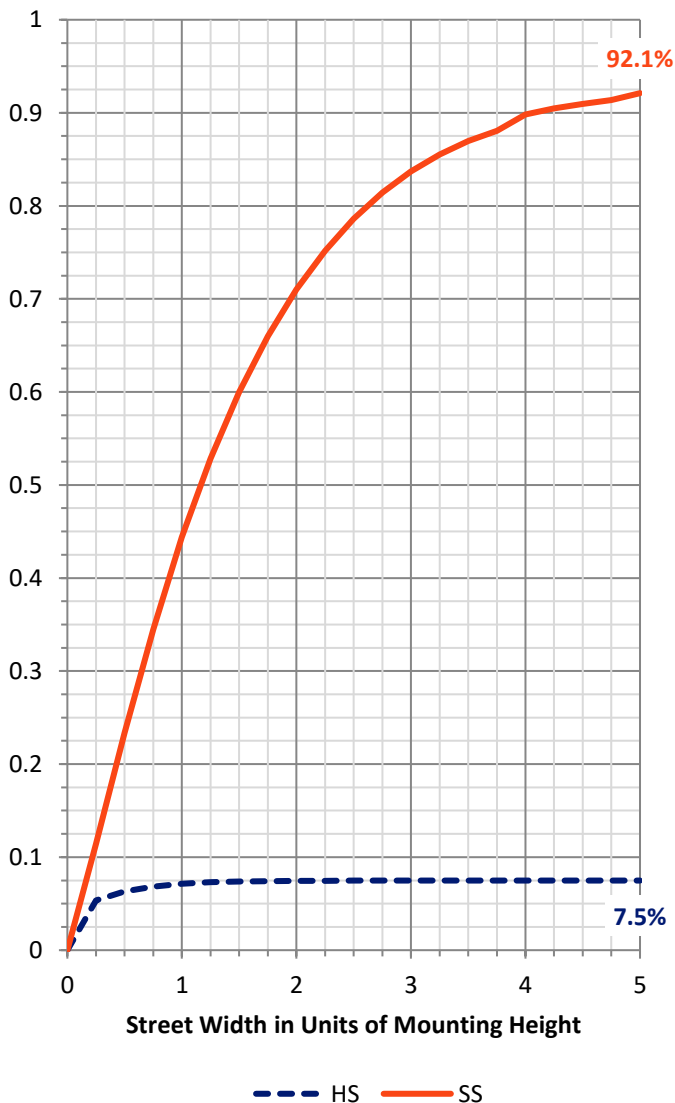
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.1	0.0	1628.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19998.3	0.0	19998.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	21626.5	0.0	21626.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.5
10°-20°	774.6	3.6
20°-30°	1243.5	5.8
30°-40°	1903.5	8.8
40°-50°	3055.5	14.1
50°-60°	4488.1	20.8
60°-70°	5652.5	26.1
70°-80°	3772.4	17.4
80°-90°	421.6	1.9
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°	21626.5	100.0
0°-180°	21626.5	100.0



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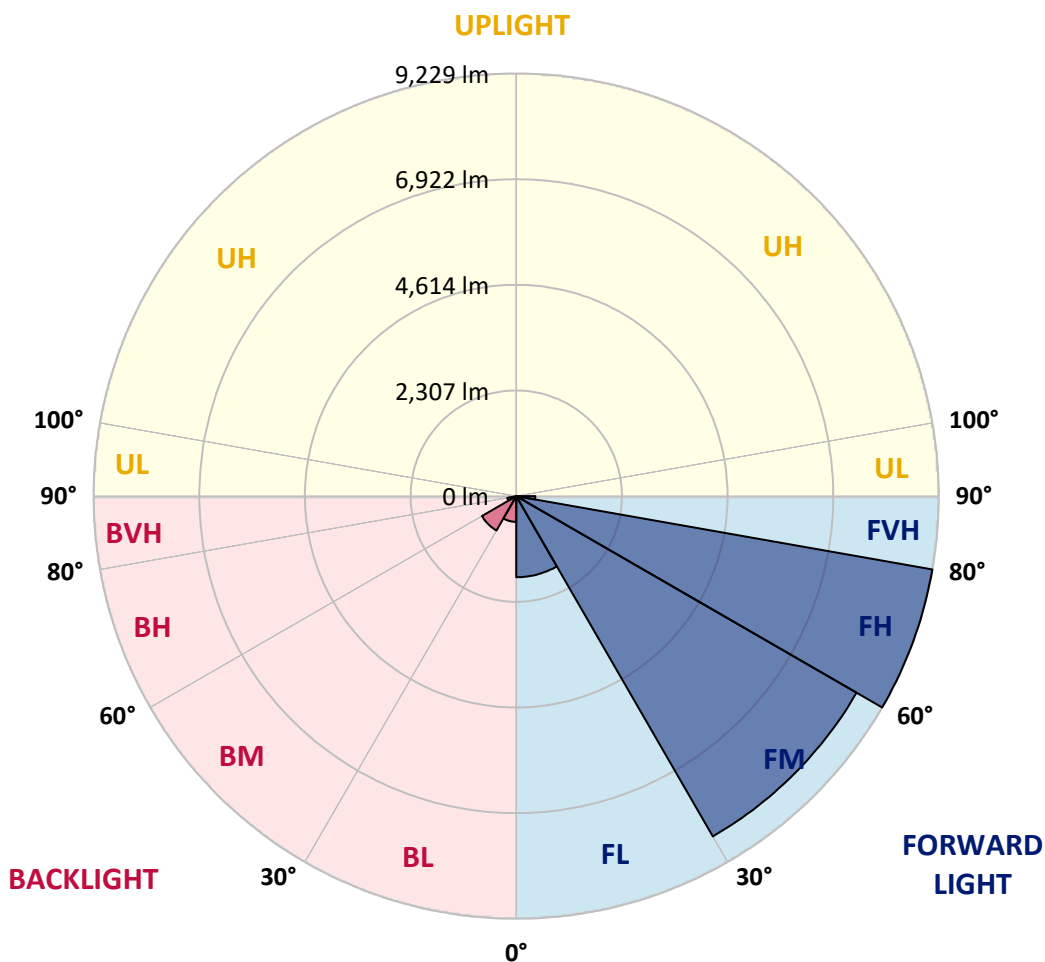
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.8	8.2			
FM (30°-60°)	8581.7	39.7			
FH (60°-80°)	9228.9	42.7			G4/12000
FVH (80°-90°)	416.9	1.9			G3/500
BL (0°-30°)	562.1	2.6	B2/1000		
BM (30°-60°)	865.4	4.0	B1/1000		
BH (60°-80°)	196.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	4056.4	4096.1	4056.4	4039.4	4022.4	4025.2	3979.8	3988.3	3934.4	3863.5	3806.8
5°	4184.0	4237.9	4195.4	4175.5	4172.7	4118.8	4096.1	4042.2	3977.0	3866.3	3798.3
7.5°	4172.7	4161.4	4181.2	4164.2	4127.3	4127.3	4101.8	4025.2	3960.0	3835.1	3718.8
10°	4087.6	4121.6	4104.6	4084.8	4093.3	4096.1	4047.9	3994.0	3974.1	3849.3	3659.3
12.5°	4079.1	4022.4	4084.8	4087.6	4050.7	4047.9	4042.2	4028.0	3965.6	3852.2	3673.5
15°	4050.7	4028.0	4090.4	4093.3	4101.8	4093.3	4101.8	4090.4	4028.0	3962.8	3735.9
17.5°	4073.4	4047.9	4135.8	4178.4	4158.5	4198.2	4184.0	4133.0	4079.1	4002.5	3795.4
20°	4079.1	4116.0	4212.4	4229.4	4291.8	4226.6	4223.8	4169.9	4135.8	4053.6	3832.3
22.5°	4184.0	4201.1	4320.2	4357.1	4359.9	4351.4	4280.5	4218.1	4203.9	4101.8	3840.8
25°	4342.9	4402.5	4456.4	4479.1	4487.6	4447.9	4374.1	4294.7	4260.6	4195.4	3928.7
27.5°	4623.7	4586.9	4635.1	4669.1	4572.7	4586.9	4493.2	4425.2	4376.9	4320.2	4030.9
30°	4873.4	4839.3	4842.1	4836.5	4754.2	4677.6	4652.1	4533.0	4473.4	4496.1	4189.7
32.5°	5097.4	5023.7	5086.1	5057.7	4904.6	4881.9	4862.0	4711.7	4723.0	4828.0	4428.0
35°	5304.5	5279.0	5330.1	5279.0	5176.9	5171.2	5151.3	5020.9	5083.3	5233.6	4836.5
37.5°	5494.6	5503.1	5565.5	5540.0	5548.5	5554.1	5542.8	5403.8	5582.5	5920.1	5313.0
40°	5670.4	5659.1	5812.3	5891.7	5908.7	5971.1	5971.1	5937.1	6212.2	6592.4	5974.0
42.5°	5857.7	5886.0	6084.6	6217.9	6379.6	6433.5	6507.3	6524.3	6949.8	7383.8	6649.1
45°	6164.0	6115.8	6368.3	6683.1	6825.0	7015.0	7128.5	7224.9	7738.4	8334.1	7324.2
47.5°	6552.6	6456.2	6677.5	7134.2	7463.2	7619.2	7823.5	7951.1	8453.2	9068.7	7962.5
50°	6983.8	6884.5	6992.3	7622.1	8005.0	8288.7	8549.6	8711.3	9318.4	9891.4	8427.7
52.5°	7471.7	7380.9	7398.0	8129.8	8694.3	8901.4	9244.6	9485.7	10089.9	10387.8	8592.2
55°	7990.8	7968.1	7914.2	8626.2	9298.5	9763.7	9970.8	10260.1	10881.4	10657.3	8770.9
57.5°	8512.8	8441.8	8518.4	9284.3	10268.6	10546.6	10833.1	11006.2	11321.0	10892.7	8702.8
60°	9003.5	9009.2	9117.0	9999.2	11094.1	11488.4	11746.5	11641.6	11772.1	10994.8	8546.8
62.5°	9417.7	9406.3	9678.6	10801.9	12186.2	12452.9	12645.8	12177.7	11982.0	11094.1	8274.5
65°	9789.3	9916.9	10345.2	11757.9	13213.1	13519.4	13403.1	12685.5	12186.2	10801.9	7508.6
67.5°	10070.1	10260.1	11003.3	12657.1	14154.8	14370.4	14208.7	13071.2	11945.1	9655.9	6115.8
70°	10234.6	10427.5	11474.2	13406.0	14906.6	15062.6	14682.5	12773.4	10538.1	6992.3	3815.3
71°	10183.5	10419.0	11565.0	13485.4	15085.3	15201.6	14611.5	12223.1	9477.2	5854.8	2782.7
72.5°	9721.2	9942.4	11187.7	13428.7	14869.7	14798.8	14058.4	10901.2	7460.4	3733.0	1438.2
75°	7142.7	7380.9	9602.0	11616.1	13272.7	12784.7	11377.8	7650.4	3891.9	1143.2	419.8
77.5°	3557.1	3596.9	5959.8	8433.3	9735.4	9250.3	7624.9	4266.3	1455.2	337.6	209.9
80°	1639.6	1650.9	2235.3	4368.4	5886.0	5540.0	4272.0	2104.8	658.1	178.7	164.5
82.5°	1117.6	1134.7	1347.4	1809.8	2555.8	2155.8	1730.4	1347.4	377.3	107.8	161.7
85°	204.2	187.2	754.5	958.8	987.2	669.4	598.5	1165.9	141.8	62.4	141.8
87.5°	0.0	2.8	105.0	391.5	351.7	156.0	204.2	283.7	14.2	19.9	25.5
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°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	3758.6	3727.3	3622.4	3506.1	3401.1	3318.9	3213.9	3165.7	3089.1	3046.6	3043.7
5°	3704.7	3619.6	3438.0	3242.3	3023.9	2842.3	2640.9	2527.4	2397.0	2357.2	2348.7
7.5°	3613.9	3491.9	3225.3	2950.1	2615.4	2294.8	2048.1	1784.2	1622.6	1554.5	1529.0
10°	3557.1	3409.6	3046.6	2635.2	2167.2	1716.2	1370.1	1089.3	941.8	870.8	853.8
12.5°	3557.1	3398.3	2901.9	2334.6	1713.3	1174.4	848.2	686.5	638.2	621.2	621.2
15°	3548.6	3375.6	2762.9	2025.4	1268.0	788.6	632.6	598.5	592.9	590.0	587.2
17.5°	3591.2	3335.9	2621.1	1693.5	896.4	621.2	581.5	575.8	570.2	570.2	564.5
20°	3622.4	3313.2	2450.9	1341.7	669.4	575.8	558.8	550.3	547.5	544.6	550.3
22.5°	3596.9	3279.2	2240.9	1004.2	584.3	547.5	536.1	527.6	521.9	521.9	524.8
25°	3645.1	3248.0	2031.0	757.4	547.5	521.9	510.6	504.9	502.1	499.2	493.6
27.5°	3710.3	3262.1	1781.4	609.9	516.3	496.4	485.1	479.4	476.6	470.9	476.6
30°	3789.8	3259.3	1506.3	533.3	487.9	468.0	456.7	453.9	448.2	445.4	448.2
32.5°	3925.9	3333.1	1222.6	493.6	456.7	439.7	428.3	425.5	422.7	419.8	417.0
35°	4218.1	3423.8	955.9	462.4	428.3	408.5	400.0	394.3	391.5	388.6	385.8
37.5°	4578.3	3625.2	729.0	434.0	400.0	380.1	371.6	368.8	357.4	354.6	351.7
40°	5029.4	3840.8	561.7	402.8	374.4	354.6	346.1	337.6	323.4	317.7	312.0
42.5°	5591.0	4050.7	462.4	374.4	346.1	331.9	317.7	303.5	292.2	280.8	275.2
45°	6152.7	4294.7	405.6	348.9	323.4	306.4	295.0	275.2	255.3	238.3	235.4
47.5°	6620.7	4382.6	371.6	320.5	300.7	286.5	269.5	244.0	215.6	198.6	195.7
50°	6969.6	4331.6	337.6	292.2	275.2	261.0	238.3	207.1	178.7	161.7	156.0
52.5°	7037.7	4107.5	306.4	269.5	249.6	232.6	207.1	173.0	141.8	124.8	122.0
55°	6989.5	3735.9	280.8	249.6	226.9	201.4	173.0	139.0	110.6	93.6	90.8
57.5°	6890.2	3296.2	252.5	224.1	198.6	173.0	141.8	113.5	82.3	65.2	65.2
60°	6552.6	2697.6	224.1	195.7	170.2	147.5	116.3	82.3	56.7	42.5	39.7
62.5°	6081.8	2073.6	195.7	167.4	147.5	122.0	90.8	59.6	34.0	22.7	22.7
65°	5222.3	1452.4	164.5	139.0	122.0	99.3	68.1	36.9	19.9	8.5	8.5
67.5°	3968.5	899.2	136.2	116.3	105.0	79.4	48.2	22.7	8.5	2.8	0.0
70°	2277.8	468.0	107.8	93.6	82.3	59.6	34.0	11.3	5.7	0.0	0.0
71°	1591.4	346.1	96.4	82.3	73.8	53.9	28.4	8.5	2.8	0.0	0.0
72.5°	797.1	229.8	82.3	68.1	59.6	42.5	22.7	8.5	2.8	0.0	0.0
75°	283.7	147.5	56.7	45.4	42.5	31.2	14.2	5.7	2.8	0.0	0.0
77.5°	195.7	119.1	39.7	28.4	28.4	19.9	8.5	2.8	2.8	0.0	0.0
80°	178.7	65.2	25.5	17.0	14.2	11.3	5.7	2.8	0.0	0.0	0.0
82.5°	178.7	48.2	14.2	11.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0
85°	124.8	25.5	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	8.5	5.7	2.8	2.8	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)