

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: P480791

Luminaire Tested: **IFLD-M-SA4C-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480791
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

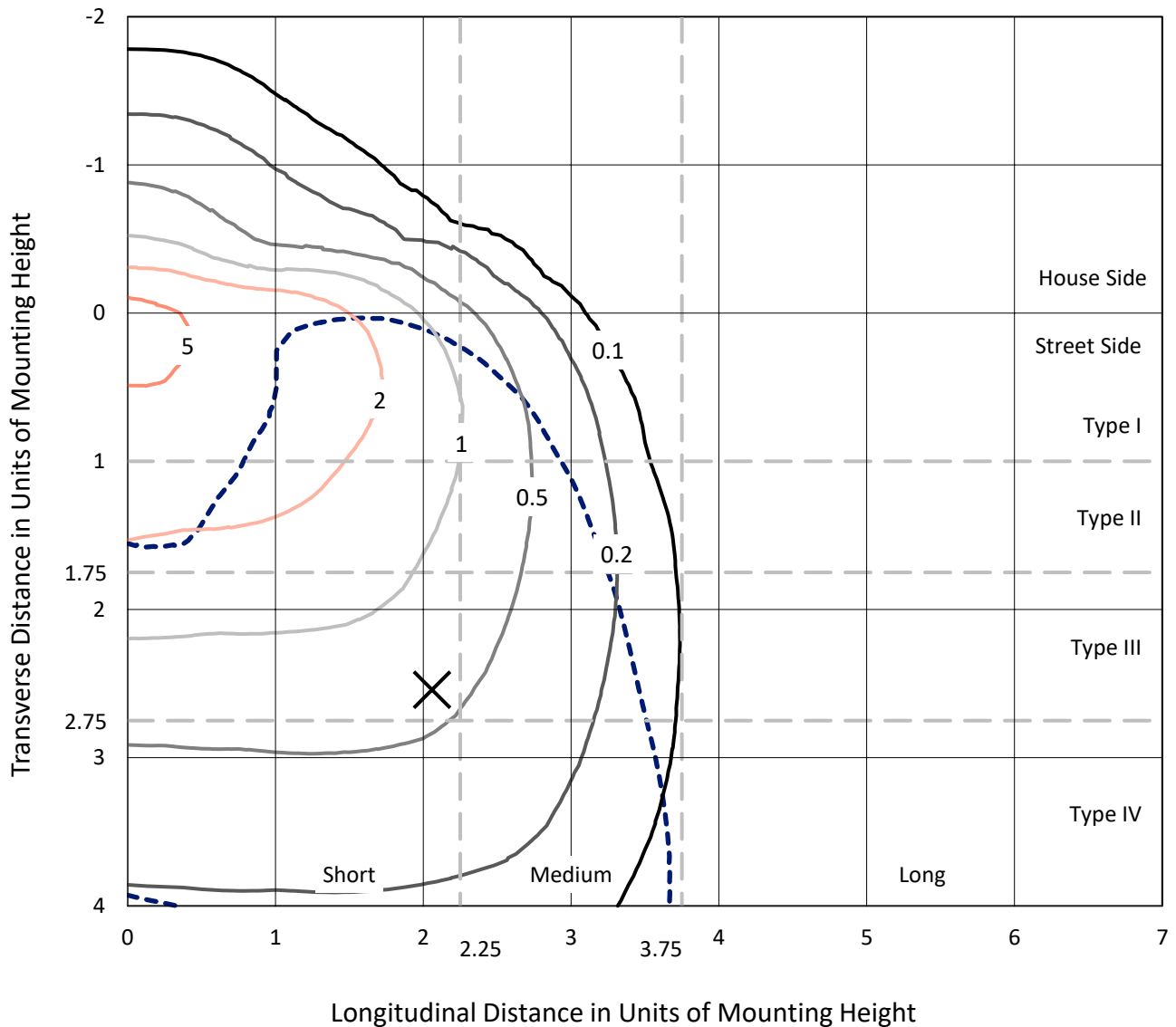
Lumens per Lamp: N/A
Luminaire Lumens: 22999.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

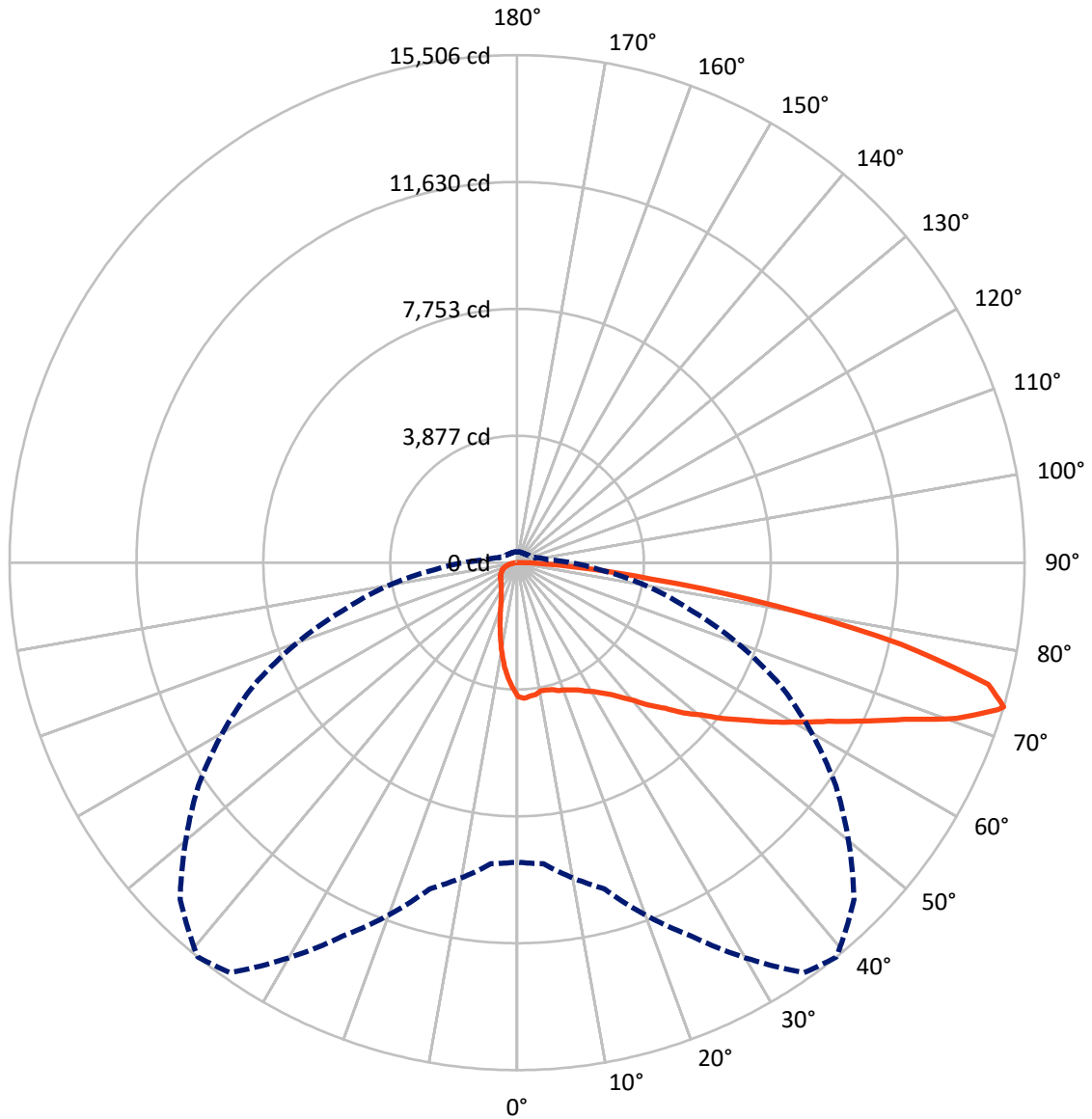
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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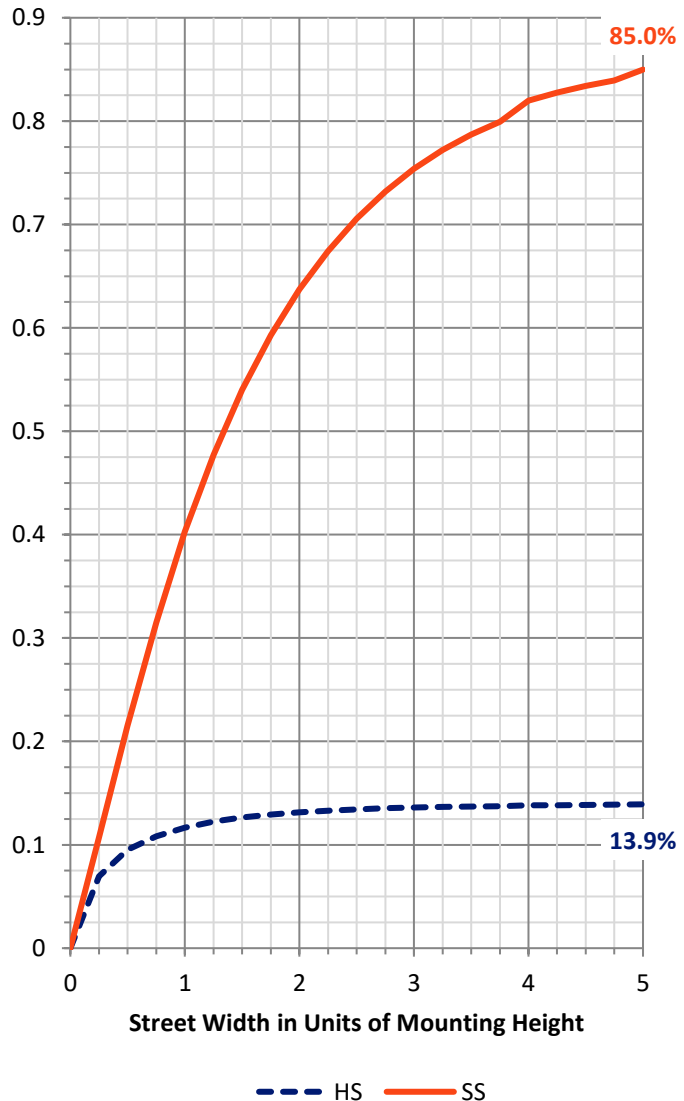
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3233.1	0.0	3233.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19766.3	0.0	19766.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	22999.4	0.0	22999.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.5
10°-20°	903.5	3.9
20°-30°	1380.6	6.0
30°-40°	2012.9	8.8
40°-50°	3041.8	13.2
50°-60°	4404.7	19.2
60°-70°	5596.3	24.3
70°-80°	4536.7	19.7
80°-90°	767.6	3.3
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°	22999.4	100.0
0°-180°	22999.4	100.0

Coefficient of Utilization



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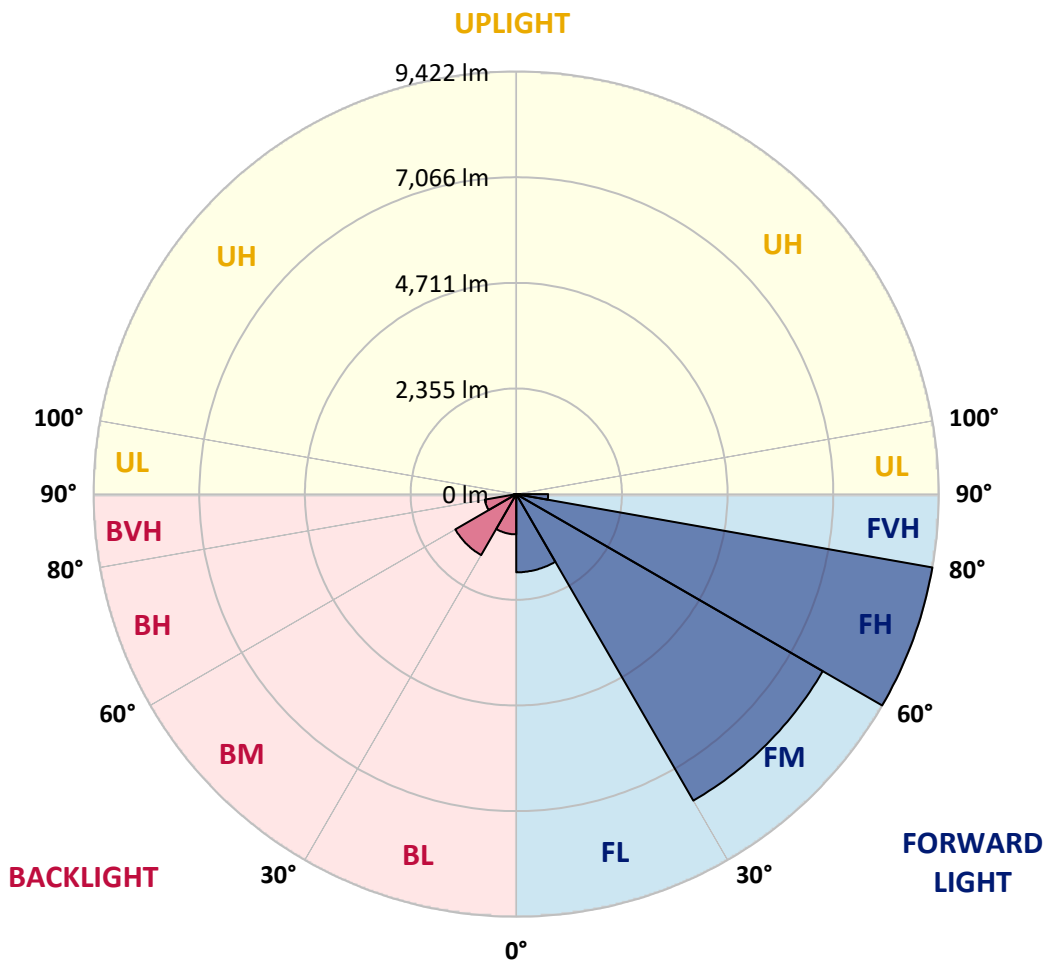
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.8	7.6			
FM (30°-60°)	7890.3	34.3			
FH (60°-80°)	9421.9	41.0			G4/12000
FVH (80°-90°)	711.3	3.1			G4/750
BL (0°-30°)	896.6	3.9	B2/1000		
BM (30°-60°)	1569.1	6.8	B2/2500		
BH (60°-80°)	711.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	56.3	0.2			G1/100
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°	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0
2.5°	4191.8	4148.1	4155.8	4140.4	4155.8	4150.6	4142.9	4104.3	4142.9	4104.3	4094.0
5°	4135.2	4135.2	4160.9	4122.3	4127.5	4101.8	4127.5	4099.2	4073.5	4009.1	3991.1
7.5°	4117.2	4114.6	4117.2	4063.2	4088.9	4073.5	4047.7	4016.8	3965.4	3924.2	3865.0
10°	3993.7	4019.4	3991.1	4006.5	4027.1	3980.8	3978.2	3970.5	3947.4	3893.3	3857.3
12.5°	3926.8	3970.5	3986.0	3973.1	3991.1	3996.3	3980.8	3970.5	3942.2	3906.2	3803.3
15°	3955.1	3903.6	3947.4	4032.3	4014.3	4027.1	4029.7	4019.4	4006.5	3939.6	3872.7
17.5°	3962.8	3931.9	4024.6	4042.6	4065.7	4112.0	4081.2	4078.6	4029.7	3983.4	3885.6
20°	3980.8	3967.9	4042.6	4137.8	4140.4	4148.1	4163.5	4124.9	4099.2	4019.4	3870.2
22.5°	4047.7	4091.5	4160.9	4202.1	4225.3	4230.4	4230.4	4153.2	4124.9	4060.6	3942.2
25°	4248.4	4202.1	4299.9	4348.8	4315.3	4307.6	4289.6	4220.1	4189.2	4132.6	3975.7
27.5°	4395.1	4392.5	4449.1	4516.0	4426.0	4444.0	4379.7	4359.1	4289.6	4258.7	4034.9
30°	4595.8	4652.4	4649.9	4670.4	4552.1	4572.7	4490.3	4451.7	4413.1	4431.1	4209.8
32.5°	4853.1	4832.6	4866.0	4850.6	4732.2	4750.2	4652.4	4593.2	4606.1	4660.2	4449.1
35°	5017.8	4997.2	5010.1	5010.1	4974.1	4953.5	4912.3	4835.1	4896.9	4997.2	4716.8
37.5°	5195.4	5221.1	5295.7	5280.3	5234.0	5234.0	5228.8	5174.8	5254.6	5501.6	5143.9
40°	5352.4	5421.8	5468.2	5499.0	5553.1	5553.1	5596.8	5565.9	5710.0	6106.3	5666.3
42.5°	5517.0	5519.6	5771.8	5795.0	5915.9	5967.4	6000.8	6026.5	6296.7	6739.3	6224.7
45°	5728.0	5740.9	5962.2	6139.8	6327.6	6345.6	6471.7	6556.6	6888.6	7431.5	6832.0
47.5°	6006.0	5990.5	6227.3	6510.3	6744.5	6868.0	7019.8	7112.5	7521.6	8182.9	7495.9
50°	6371.4	6325.0	6461.4	6906.6	7181.9	7318.3	7588.5	7742.9	8221.5	8900.9	7951.3
52.5°	6816.5	6739.3	6847.4	7333.8	7642.5	7917.9	8175.2	8347.6	8846.8	9456.7	8288.4
55°	7287.4	7127.9	7158.8	7786.6	8231.8	8491.7	8844.3	9024.4	9533.9	9955.9	8625.5
57.5°	7753.2	7652.8	7591.1	8221.5	8934.3	9183.9	9508.1	9742.3	10174.6	10398.5	8911.2
60°	8144.3	8118.6	8018.2	8895.7	9678.0	9891.6	10231.2	10375.3	10702.1	10807.6	8916.3
62.5°	8466.0	8378.5	8538.0	9438.7	10434.5	10676.4	11049.5	11062.4	11294.0	11062.4	8653.8
65°	8718.2	8723.3	8978.1	10094.8	11309.4	11667.1	11968.2	11934.7	11785.5	10910.6	8033.7
67.5°	8947.2	9045.0	9418.1	10815.4	12433.9	12771.0	13105.5	12662.9	11919.3	10200.4	6821.7
70°	9127.3	9225.1	10012.5	11692.8	13759.2	14253.2	14327.8	12951.2	11304.3	8641.0	5146.5
72.5°	9106.7	9284.3	10349.6	12392.8	14935.1	15362.3	14760.1	12140.6	9418.1	6024.0	3003.0
73°	9150.5	9238.0	10321.3	12588.3	15292.8	15506.4	14559.4	11885.8	8882.8	5403.8	2539.8
75°	8306.4	8602.4	9809.2	12269.2	14909.4	14870.8	13406.6	9904.4	6314.7	2838.3	1230.0
77.5°	6144.9	6332.8	7730.0	10089.7	12238.4	11991.3	10112.9	6330.2	2997.8	1052.5	663.9
80°	3003.0	3149.7	4096.6	5825.8	8002.8	8023.4	6276.1	3293.8	1284.1	594.4	452.9
82.5°	1500.2	1587.7	1968.5	2560.4	3937.1	4124.9	3183.1	1873.3	795.1	337.1	257.3
85°	980.4	1042.2	1212.0	1253.2	1670.0	1762.7	1482.2	1461.6	517.2	182.7	208.4
87.5°	651.0	661.3	743.7	633.0	669.0	643.3	715.4	921.2	151.8	77.2	56.6
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°	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0	4094.0
2.5°	4081.2	4045.1	4006.5	3952.5	3913.9	3854.7	3800.7	3777.5	3772.4	3775.0	3749.2
5°	3975.7	3924.2	3847.0	3736.4	3672.0	3574.2	3491.9	3448.2	3401.8	3409.6	3389.0
7.5°	3829.0	3772.4	3654.0	3525.3	3365.8	3226.9	3149.7	3041.6	2979.8	2933.5	2959.2
10°	3782.7	3684.9	3507.3	3329.8	3082.8	2900.0	2722.5	2599.0	2514.1	2431.7	2467.7
12.5°	3759.5	3661.7	3414.7	3152.2	2833.1	2555.2	2305.6	2153.8	2032.9	1960.8	1989.1
15°	3738.9	3618.0	3327.2	2956.7	2599.0	2233.6	1953.1	1752.4	1636.6	1567.1	1574.8
17.5°	3767.2	3594.8	3198.5	2766.2	2341.7	1950.5	1639.2	1430.7	1312.4	1268.6	1258.3
20°	3738.9	3569.1	3072.5	2575.8	2084.3	1680.3	1381.8	1209.4	1127.1	1091.1	1083.3
22.5°	3749.2	3507.3	2941.2	2364.8	1845.0	1453.9	1209.4	1078.2	1013.9	995.8	1001.0
25°	3798.1	3471.3	2810.0	2133.2	1608.3	1286.6	1098.8	998.4	952.1	934.1	939.2
27.5°	3834.1	3502.2	2691.6	1914.5	1407.6	1137.4	1006.1	939.2	908.4	895.5	892.9
30°	3924.2	3520.2	2575.8	1718.9	1242.9	1039.6	941.8	887.8	867.2	859.5	856.9
32.5°	4058.0	3553.7	2442.0	1538.8	1121.9	947.0	890.3	844.0	838.9	831.2	833.7
35°	4276.7	3669.5	2292.8	1384.4	1006.1	885.2	836.3	805.4	805.4	805.4	813.1
37.5°	4590.7	3831.6	2159.0	1237.7	931.5	831.2	790.0	779.7	774.5	782.3	787.4
40°	4994.7	4027.1	2050.9	1121.9	867.2	795.1	759.1	754.0	751.4	748.8	754.0
42.5°	5437.3	4276.7	1958.2	1031.9	820.9	756.5	730.8	725.7	715.4	720.5	728.2
45°	5877.3	4585.5	1875.9	959.8	790.0	735.9	699.9	697.3	692.2	689.6	702.5
47.5°	6366.2	4889.2	1850.2	916.1	766.8	705.1	679.3	676.8	661.3	658.8	669.0
50°	6747.1	5113.0	1878.5	895.5	733.4	681.9	663.9	651.0	638.2	625.3	625.3
52.5°	7009.5	5267.4	1899.1	880.1	715.4	651.0	627.9	622.7	609.9	597.0	591.8
55°	7246.3	5360.1	1904.2	882.6	697.3	615.0	599.6	597.0	589.3	568.7	563.5
57.5°	7326.0	5321.5	1801.3	859.5	687.1	591.8	571.3	576.4	566.1	548.1	545.5
60°	7318.3	5053.9	1567.1	828.6	663.9	566.1	540.4	555.8	555.8	535.2	532.7
62.5°	6873.1	4436.3	1281.5	769.4	638.2	540.4	512.1	535.2	543.0	530.1	527.5
65°	5949.3	3612.8	1070.5	710.2	599.6	512.1	483.8	509.5	522.4	517.2	514.6
67.5°	4922.6	2763.7	890.3	633.0	550.7	473.5	450.3	468.3	476.1	478.6	481.2
70°	3479.0	1839.9	743.7	548.1	483.8	432.3	406.6	409.1	406.6	414.3	414.3
72.5°	1891.3	1060.2	604.7	465.8	416.9	375.7	357.7	344.8	344.8	342.2	342.2
73°	1618.6	952.1	576.4	452.9	398.9	365.4	344.8	334.5	334.5	331.9	329.4
75°	908.4	697.3	494.1	388.6	344.8	319.1	303.6	288.2	285.6	285.6	285.6
77.5°	597.0	543.0	393.7	311.4	277.9	254.8	249.6	234.2	234.2	234.2	231.6
80°	447.7	427.2	303.6	236.7	213.6	195.6	190.4	180.1	177.6	167.3	169.8
82.5°	298.5	337.1	221.3	167.3	144.1	133.8	133.8	131.2	123.5	110.6	110.6
85°	236.7	275.3	159.5	102.9	84.9	72.1	74.6	72.1	69.5	56.6	54.0
87.5°	43.7	110.6	46.3	28.3	20.6	12.9	12.9	7.7	5.1	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)