

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: P480245

Luminaire Tested: **IFLD-M-SA4C-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480245
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

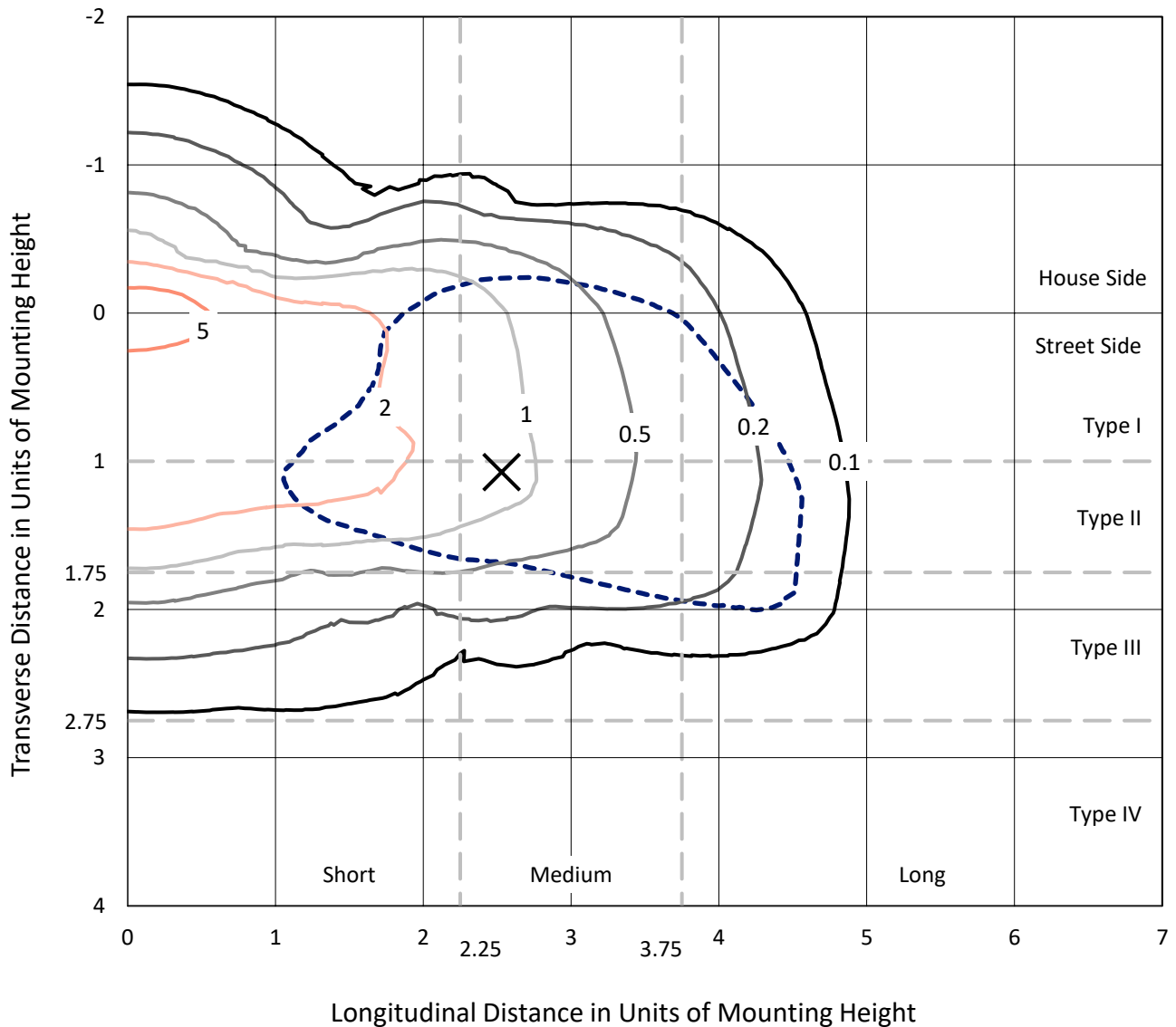
Lumens per Lamp: N/A
Luminaire Lumens: 20838.6 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P480245
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

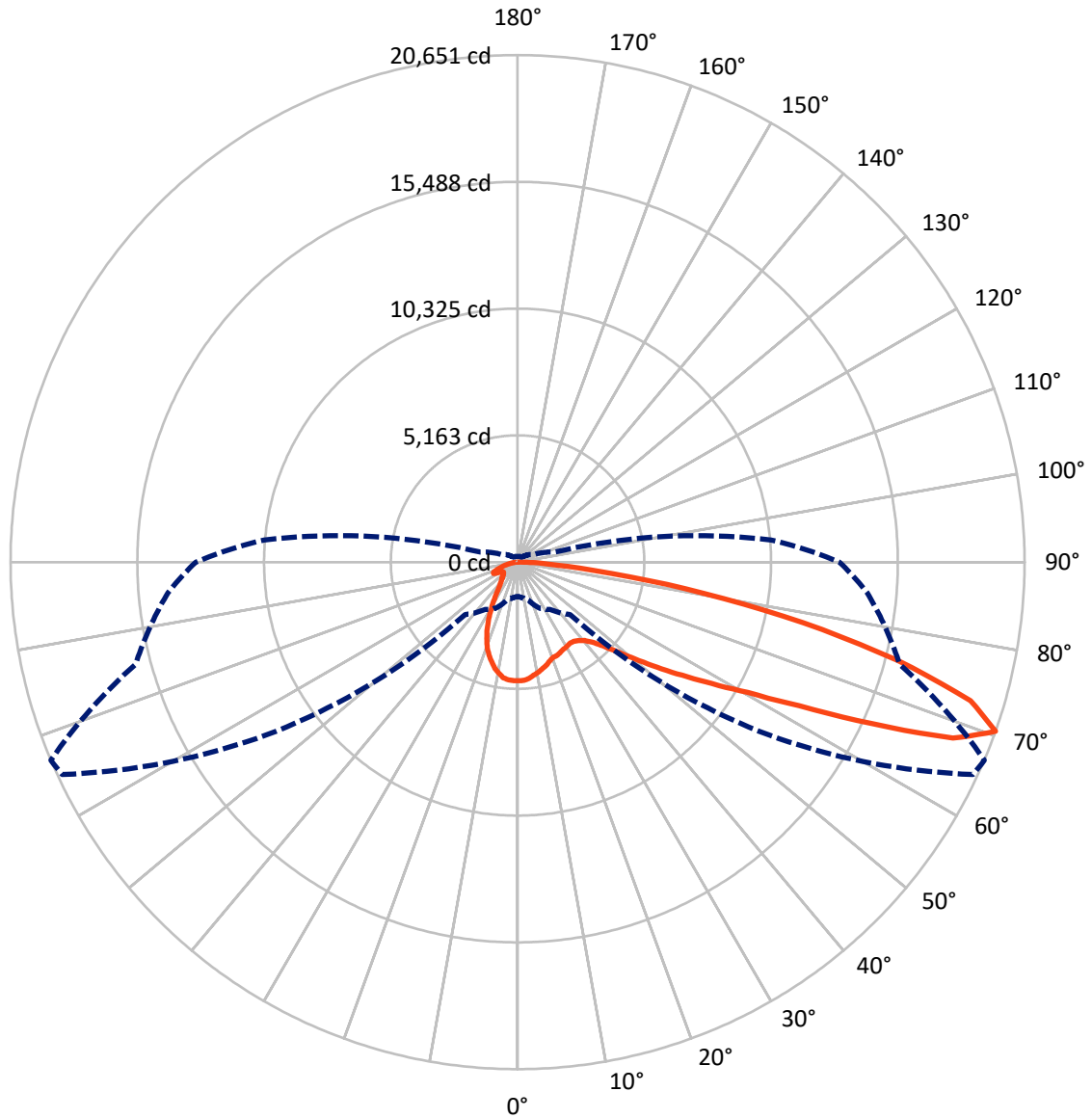
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P480245
CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480245
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

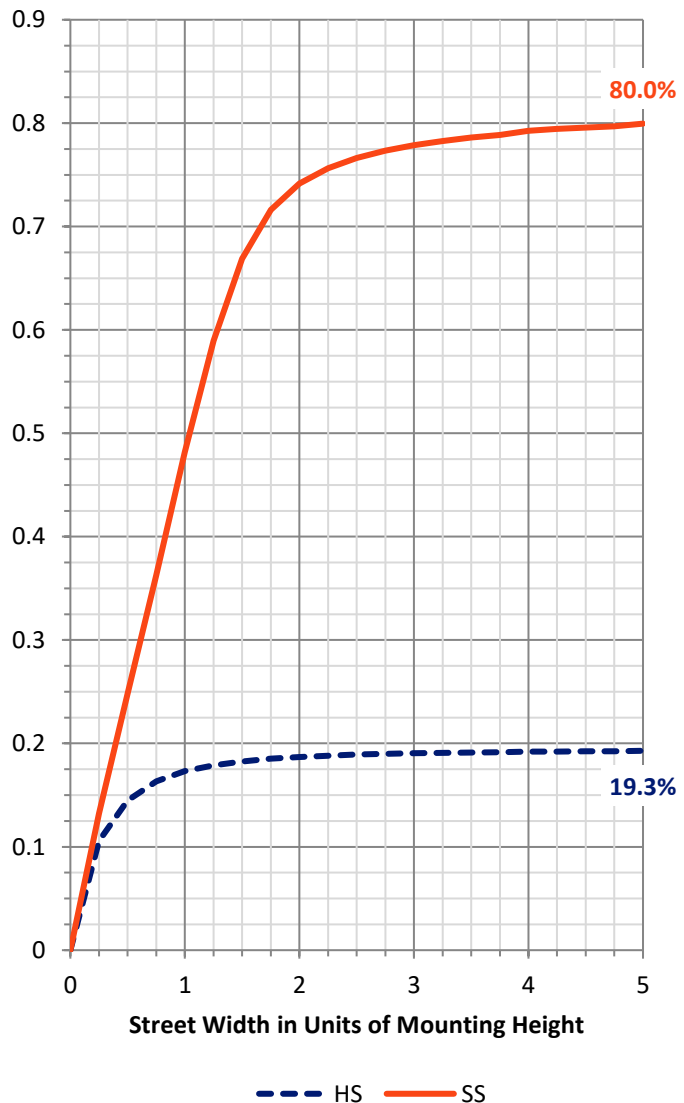
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.5	0.0	4058.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16780.1	0.0	16780.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	20838.6	0.0	20838.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	2.0
10°-20°	1008.1	4.8
20°-30°	1361.3	6.5
30°-40°	1821.6	8.7
40°-50°	2678.6	12.9
50°-60°	4175.2	20.0
60°-70°	5143.2	24.7
70°-80°	3634.1	17.4
80°-90°	595.6	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°	20838.6	100.0
0°-180°	20838.6	100.0

Coefficient of Utilization



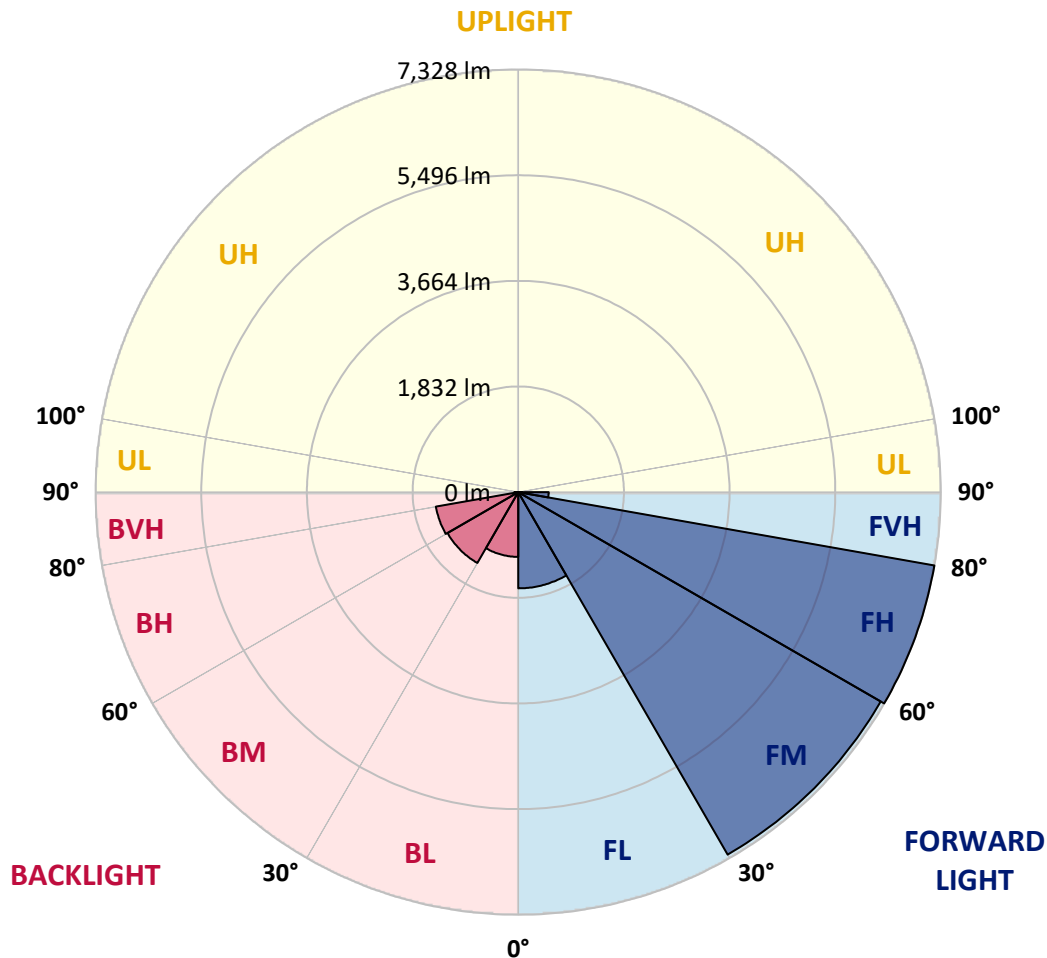
REPORT NUMBER: P480245
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.0	8.0			
FM (30°-60°)	7257.6	34.8			
FH (60°-80°)	7327.6	35.2			G3/7500
FVH (80°-90°)	526.9	2.5			G4/750
BL (0°-30°)	1122.3	5.4	B3/2500		
BM (30°-60°)	1417.7	6.8	B2/2500		
BH (60°-80°)	1449.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	68.7	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-G4

Type III Medium





REPORT NUMBER: P480245

CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1
2.5°	4491.9	4542.6	4561.1	4588.8	4660.3	4713.3	4745.6	4782.6	4826.4	4863.3	4886.4
5°	4178.1	4205.8	4249.6	4279.6	4369.6	4512.6	4609.5	4766.4	4761.8	4819.5	4907.1
7.5°	3873.6	3901.3	3922.0	3982.0	4111.2	4240.4	4418.0	4671.8	4653.4	4787.2	4923.3
10°	3684.4	3663.6	3670.5	3772.1	3873.6	4018.9	4242.7	4501.1	4568.0	4775.6	4969.4
12.5°	3506.7	3483.7	3539.0	3603.6	3728.2	3859.7	4127.3	4360.4	4461.9	4734.1	4990.2
15°	3396.0	3379.9	3449.1	3476.8	3624.4	3781.3	3970.5	4254.2	4365.0	4683.3	4957.9
17.5°	3333.7	3347.6	3372.9	3432.9	3527.5	3661.3	3869.0	4182.7	4231.2	4621.1	4951.0
20°	3345.2	3361.4	3363.7	3389.1	3453.7	3557.5	3769.7	4106.6	4138.9	4609.5	4969.4
22.5°	3437.5	3414.5	3423.7	3407.5	3426.0	3506.7	3693.6	4005.1	4129.7	4512.6	4930.2
25°	3576.0	3543.7	3539.0	3483.7	3449.1	3472.1	3679.8	3979.7	4060.4	4482.6	4927.9
27.5°	3820.5	3772.1	3772.1	3689.0	3548.3	3511.4	3640.6	3938.2	4009.7	4454.9	4874.8
30°	4055.8	4055.8	4058.1	3940.5	3783.6	3601.3	3656.7	3922.0	3968.2	4371.9	4803.3
32.5°	4341.9	4335.0	4323.4	4265.8	4023.5	3751.3	3735.1	3901.3	3924.3	4344.2	4782.6
35°	4621.1	4602.6	4692.6	4641.8	4395.0	4044.3	3815.9	3910.5	3961.2	4302.7	4718.0
37.5°	4831.0	4842.5	5029.4	5061.7	4849.5	4376.5	4044.3	4002.8	4051.2	4362.7	4718.0
40°	5103.2	5149.4	5324.7	5433.1	5303.9	4814.9	4406.5	4157.3	4191.9	4496.5	4819.5
42.5°	5460.8	5500.0	5723.8	5864.6	5827.7	5373.2	4764.1	4480.3	4452.6	4720.3	4971.7
45°	5933.8	5940.7	6166.8	6360.6	6436.7	5956.8	5331.6	4888.7	4865.6	5105.5	5250.9
47.5°	6496.7	6489.8	6630.5	6838.1	7043.5	6653.6	5984.5	5509.3	5426.2	5656.9	5714.6
50°	7041.2	7011.2	7043.5	7308.8	7703.3	7525.7	6778.2	6268.3	6185.2	6312.1	6411.3
52.5°	7341.1	7378.0	7290.3	7641.0	8404.6	8556.9	7830.2	7175.0	7103.5	7165.8	7338.8
55°	7131.1	7207.3	7149.6	7481.8	8711.5	9814.3	9191.4	8224.7	8132.4	8109.3	8393.1
57.5°	6238.3	6376.7	6388.3	6914.3	8605.4	10787.8	11106.2	9463.6	9325.2	9089.8	9382.8
60°	4789.5	4927.9	5034.0	5656.9	7696.4	11369.2	13325.6	11226.2	10769.4	10160.3	10335.7
62.5°	3356.8	3451.4	3557.5	3940.5	5933.8	11027.8	15245.1	13708.6	12866.5	11288.5	11507.7
65°	2445.5	2519.3	2627.8	2853.8	3645.2	9124.5	16135.6	16657.0	15858.8	12723.5	12695.8
67.5°	1841.0	1887.2	2030.2	2392.4	2526.2	5636.2	15212.8	19771.6	19125.6	14317.7	13650.9
70°	1393.5	1432.7	1566.5	2062.5	2360.1	3022.3	12001.4	20466.0	20650.6	16105.6	14292.3
72.5°	959.7	1003.6	1153.5	1718.8	2247.1	2397.0	7532.6	18592.7	19291.7	16841.6	13604.8
75°	588.3	618.3	706.0	1303.5	2230.9	2344.0	4145.8	15235.9	15976.4	15561.2	11902.2
77.5°	415.3	413.0	429.1	763.6	1933.3	2357.8	2556.2	11163.9	11883.7	11468.4	8077.0
80°	302.2	304.5	320.7	456.8	1312.7	2397.0	2014.1	7477.2	7691.8	5979.9	3186.1
82.5°	182.3	191.5	230.7	309.1	789.0	2164.0	1861.8	4155.0	3887.4	1919.5	876.7
85°	96.9	96.9	136.1	196.1	419.9	1614.9	1792.6	1977.2	1656.5	595.2	325.3
87.5°	23.1	23.1	39.2	78.4	168.4	772.9	1222.7	786.7	629.8	200.7	133.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480245
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1	4824.1
2.5°	4877.1	4849.5	4884.1	4814.9	4759.5	4761.8	4676.4	4671.8	4660.3	4600.3	4621.1
5°	4932.5	4909.4	4870.2	4794.1	4671.8	4549.5	4475.7	4381.1	4341.9	4321.1	4330.4
7.5°	4985.6	4944.0	4831.0	4724.9	4535.7	4305.0	4171.2	4044.3	3882.8	3864.3	3832.0
10°	4999.4	4911.7	4766.4	4540.3	4288.8	4032.8	3728.2	3492.9	3368.3	3271.4	3234.5
12.5°	4978.7	4941.7	4662.6	4371.9	3991.2	3589.8	3234.5	2902.3	2671.6	2551.6	2519.3
15°	4976.3	4911.7	4547.2	4115.8	3629.0	3105.3	2600.1	2200.9	1958.7	1859.5	1859.5
17.5°	4978.7	4824.1	4411.1	3857.4	3202.2	2493.9	1937.9	1610.3	1476.5	1462.7	1474.2
20°	4932.5	4759.5	4268.1	3552.9	2667.0	1873.3	1407.3	1273.5	1273.5	1292.0	1298.9
22.5°	4891.0	4662.6	4042.0	3176.8	2122.5	1356.6	1144.3	1105.1	1148.9	1181.2	1195.1
25°	4833.3	4581.8	3811.3	2786.9	1614.9	1093.6	994.3	1003.6	1045.1	1102.8	1098.2
27.5°	4750.3	4441.1	3536.7	2334.8	1202.0	943.6	918.2	922.8	966.7	992.0	987.4
30°	4655.7	4298.1	3283.0	1884.9	952.8	865.2	862.8	874.4	881.3	895.1	892.8
32.5°	4535.7	4108.9	3013.0	1465.0	858.2	821.3	812.1	805.2	812.1	809.8	802.9
35°	4450.3	4007.4	2738.5	1116.6	805.2	782.1	775.2	763.6	754.4	740.6	738.3
37.5°	4427.3	3905.9	2450.1	911.3	763.6	752.1	729.0	708.3	696.7	689.8	685.2
40°	4413.4	3839.0	2168.6	800.6	729.0	717.5	689.8	662.1	650.6	643.7	646.0
42.5°	4461.9	3802.0	1882.6	745.2	699.0	678.3	648.3	616.0	613.7	609.1	616.0
45°	4632.6	3848.2	1617.3	706.0	669.0	634.4	595.2	579.1	576.8	572.2	576.8
47.5°	5020.2	3963.5	1391.2	680.6	636.8	606.8	565.2	542.2	539.9	537.5	537.5
50°	5555.4	4318.8	1202.0	650.6	616.0	574.5	535.2	509.9	505.2	496.0	496.0
52.5°	6395.2	4916.4	1088.9	634.4	579.1	544.5	502.9	475.3	463.7	454.5	454.5
55°	7341.1	5656.9	1068.2	606.8	539.9	507.6	470.6	443.0	431.4	419.9	415.3
57.5°	8418.5	6637.4	1215.8	588.3	512.2	470.6	429.1	403.7	394.5	383.0	378.4
60°	9422.1	7615.6	1674.9	560.6	486.8	436.0	394.5	369.1	357.6	346.1	346.1
62.5°	10582.5	8826.8	2452.4	560.6	463.7	399.1	357.6	339.1	332.2	320.7	318.4
65°	11955.2	10079.6	3020.0	595.2	456.8	366.8	323.0	304.5	297.6	290.7	288.4
67.5°	13000.3	10799.4	2597.8	687.5	486.8	339.1	288.4	276.8	272.2	265.3	260.7
70°	13111.1	10361.0	1566.5	742.9	516.8	311.5	258.4	246.9	246.9	239.9	235.3
72.5°	12116.7	9193.7	1054.3	662.1	468.3	279.2	228.4	219.2	214.6	209.9	207.6
75°	10139.6	7797.9	832.9	528.3	359.9	230.7	198.4	189.2	182.3	180.0	175.3
77.5°	6810.5	5068.6	616.0	413.0	265.3	186.9	166.1	156.9	150.0	147.7	140.7
80°	2616.2	1931.0	396.8	299.9	186.9	147.7	131.5	122.3	117.7	110.7	106.1
82.5°	770.6	625.2	221.5	184.6	120.0	101.5	94.6	87.7	80.7	73.8	71.5
85°	318.4	286.1	136.1	96.9	73.8	60.0	55.4	48.4	41.5	36.9	32.3
87.5°	147.7	122.3	62.3	36.9	25.4	13.8	6.9	2.3	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)