

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: P480127

Luminaire Tested: **IFLD-M-SA4B-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480127
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

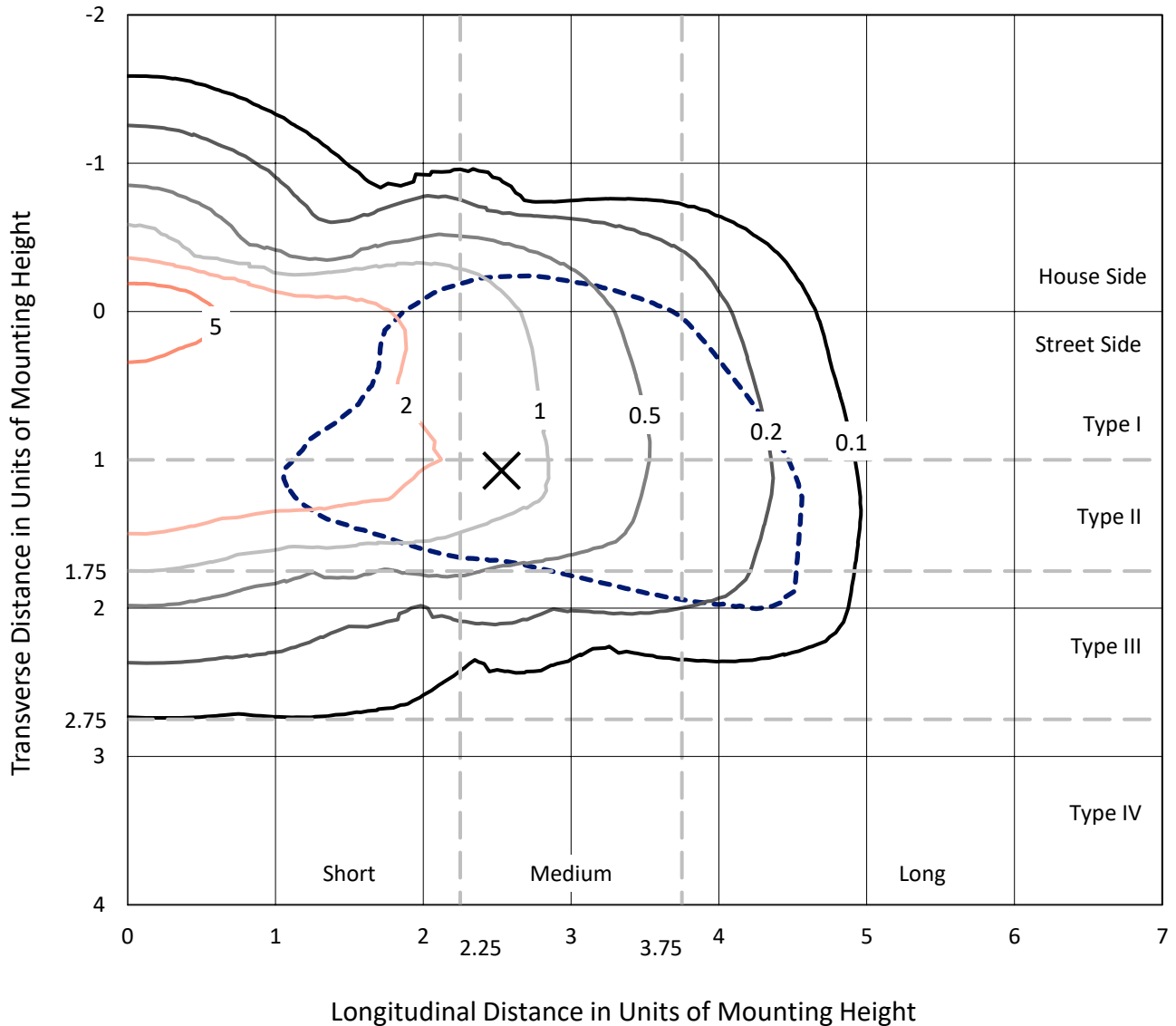
Lumens per Lamp: N/A
Luminaire Lumens: 22772.2 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

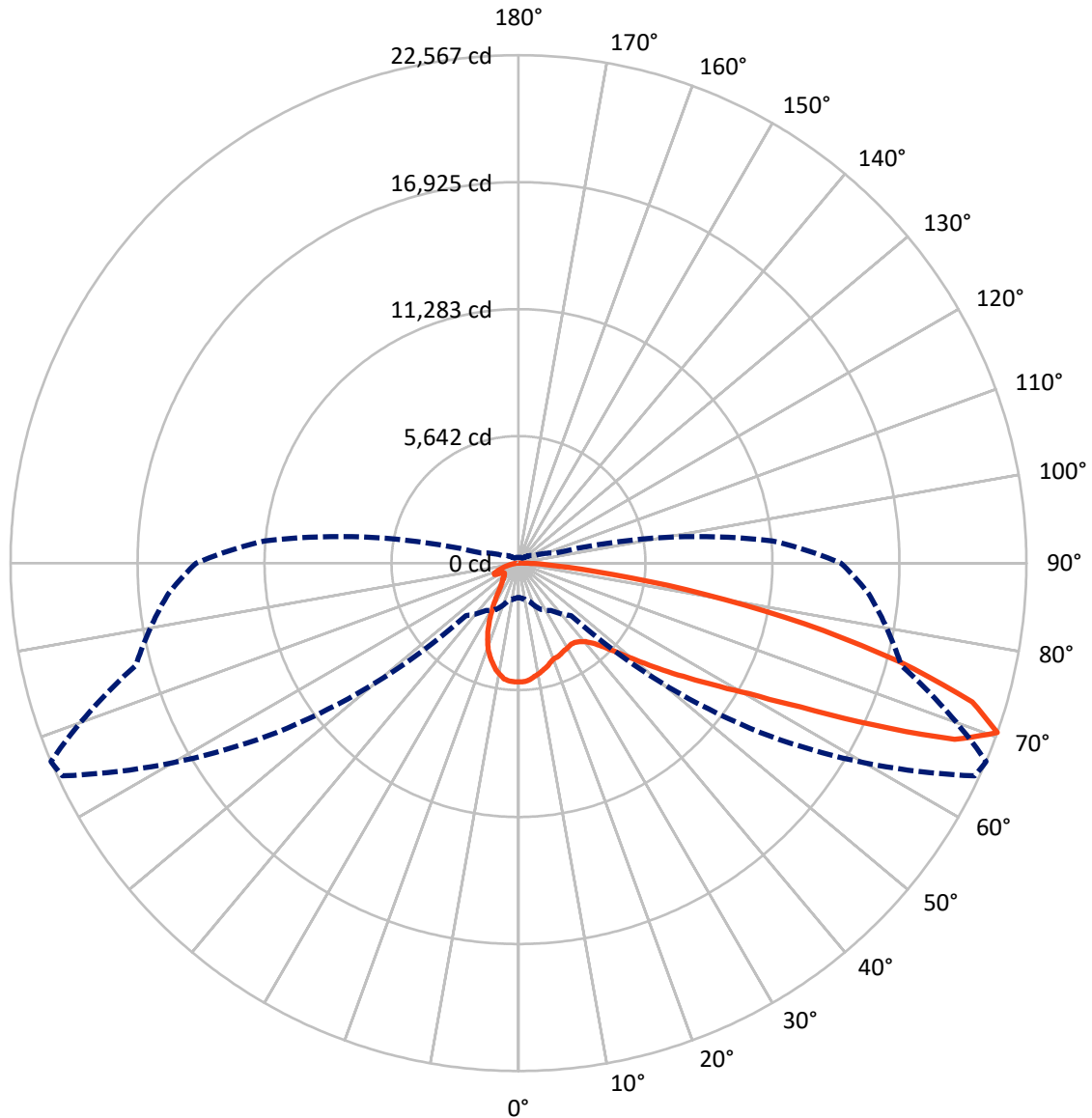
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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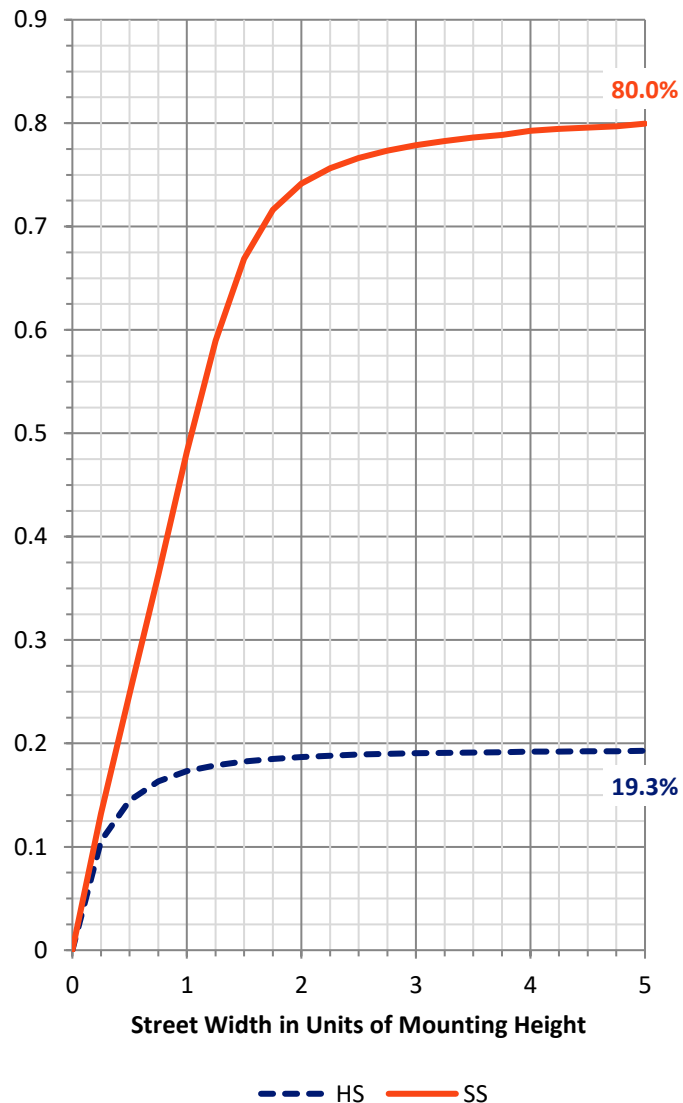
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4435.1	0.0	4435.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18337.1	0.0	18337.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	22772.2	0.0	22772.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.0	2.0
10°-20°	1101.6	4.8
20°-30°	1487.6	6.5
30°-40°	1990.6	8.7
40°-50°	2927.1	12.9
50°-60°	4562.6	20.0
60°-70°	5620.4	24.7
70°-80°	3971.3	17.4
80°-90°	650.9	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°	22772.2	100.0
0°-180°	22772.2	100.0

Coefficient of Utilization



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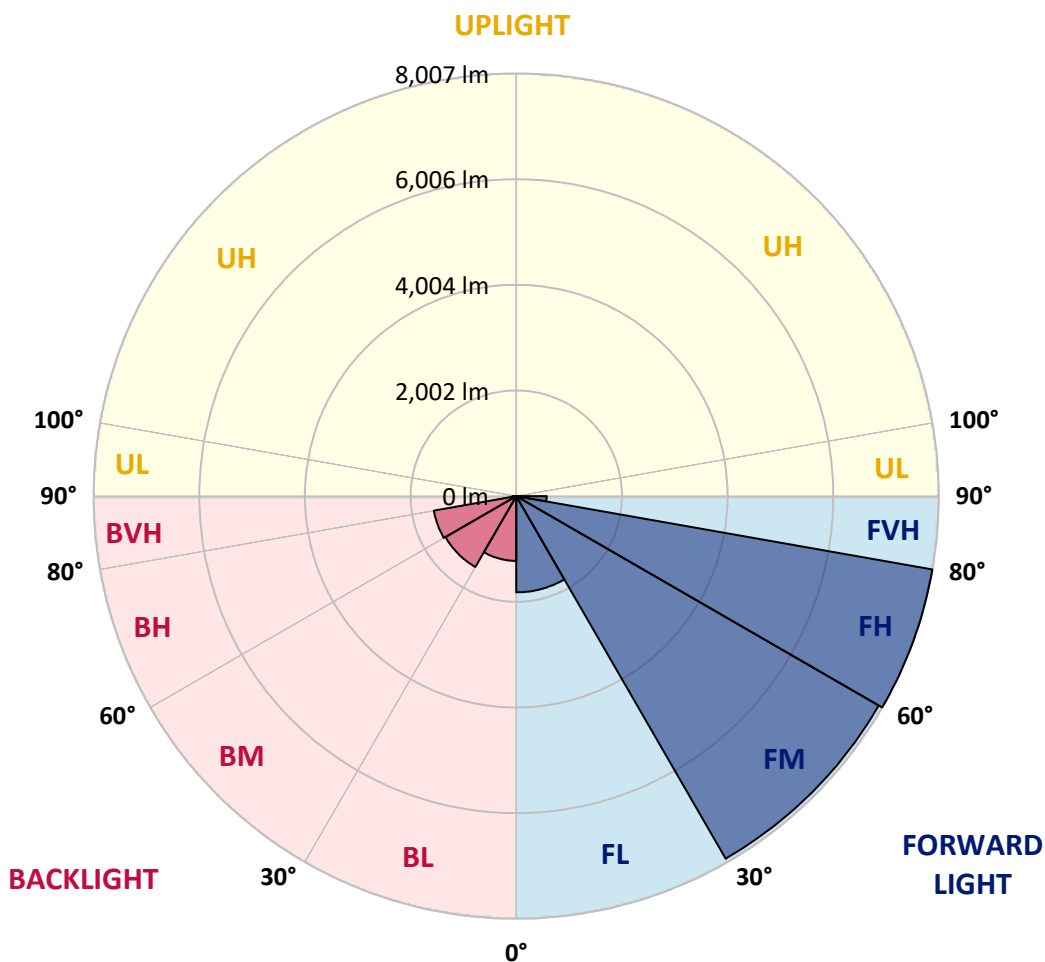
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.7	8.0			
FM (30°-60°)	7931.1	34.8			
FH (60°-80°)	8007.5	35.2			G4/12000
FVH (80°-90°)	575.8	2.5			G4/750
BL (0°-30°)	1226.5	5.4	B3/2500		
BM (30°-60°)	1549.3	6.8	B2/2500		
BH (60°-80°)	1584.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	75.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7
2.5°	4908.7	4964.1	4984.3	5014.5	5092.7	5150.7	5186.0	5226.3	5274.2	5314.6	5339.8
5°	4565.8	4596.0	4643.9	4676.7	4775.0	4931.3	5037.2	5208.7	5203.6	5266.7	5362.5
7.5°	4233.0	4263.2	4285.9	4351.5	4492.7	4633.9	4828.0	5105.3	5085.1	5231.4	5380.1
10°	4026.3	4003.6	4011.1	4122.1	4233.0	4391.8	4636.4	4918.7	4991.9	5218.8	5430.5
12.5°	3832.1	3806.9	3867.4	3938.0	4074.2	4217.9	4510.3	4765.0	4875.9	5173.4	5453.2
15°	3711.1	3693.5	3769.1	3799.4	3960.7	4132.1	4338.9	4649.0	4770.0	5117.9	5417.9
17.5°	3643.0	3658.2	3685.9	3751.5	3854.8	4001.0	4228.0	4570.8	4623.8	5049.8	5410.4
20°	3655.7	3673.3	3675.8	3703.6	3774.1	3887.6	4119.5	4487.6	4522.9	5037.2	5430.5
22.5°	3756.5	3731.3	3741.4	3723.7	3743.9	3832.1	4036.3	4376.7	4512.8	4931.3	5387.7
25°	3907.8	3872.5	3867.4	3806.9	3769.1	3794.3	4021.2	4349.0	4437.2	4898.6	5385.2
27.5°	4175.0	4122.1	4122.1	4031.3	3877.5	3837.2	3978.4	4303.6	4381.7	4868.3	5327.2
30°	4432.2	4432.2	4434.7	4306.1	4134.7	3935.5	3996.0	4285.9	4336.4	4777.6	5249.0
32.5°	4744.8	4737.2	4724.6	4661.6	4396.9	4099.4	4081.7	4263.2	4288.5	4747.3	5226.3
35°	5049.8	5029.7	5128.0	5072.5	4802.8	4419.6	4170.0	4273.3	4328.8	4701.9	5155.7
37.5°	5279.3	5291.9	5496.1	5531.4	5299.4	4782.6	4419.6	4374.2	4427.1	4767.5	5155.7
40°	5576.8	5627.2	5818.8	5937.3	5796.1	5261.6	4815.4	4543.1	4580.9	4913.7	5266.7
42.5°	5967.5	6010.4	6254.9	6408.7	6368.4	5871.7	5206.2	4896.1	4865.8	5158.3	5433.1
45°	6484.4	6491.9	6739.0	6950.8	7034.0	6509.6	5826.4	5342.3	5317.1	5579.3	5738.1
47.5°	7099.5	7092.0	7245.8	7472.7	7697.0	7271.0	6539.8	6020.5	5929.7	6181.8	6244.9
50°	7694.5	7661.7	7697.0	7987.0	8418.1	8224.0	7407.1	6849.9	6759.2	6897.8	7006.2
52.5°	8022.3	8062.6	7966.8	8350.0	9184.5	9350.9	8556.7	7840.7	7762.6	7830.7	8019.7
55°	7792.8	7876.0	7813.0	8176.1	9519.8	10724.9	10044.2	8987.9	8887.0	8861.8	9171.9
57.5°	6817.2	6968.4	6981.0	7555.9	9403.9	11788.8	12136.8	10341.7	10190.4	9933.3	10253.5
60°	5233.9	5385.2	5501.1	6181.8	8410.5	12424.2	14562.1	12267.9	11768.7	11103.1	11294.7
62.5°	3668.3	3771.6	3887.6	4306.1	6484.4	12051.0	16659.7	14980.6	14060.4	12335.9	12575.4
65°	2672.4	2753.1	2871.6	3118.6	3983.4	9971.1	17632.9	18202.6	17330.3	13904.1	13873.8
67.5°	2011.9	2062.3	2218.6	2614.4	2760.6	6159.1	16624.4	21606.2	20900.2	15646.2	14917.6
70°	1522.8	1565.6	1711.9	2253.9	2579.1	3302.7	13115.0	22365.0	22566.7	17600.1	15618.5
72.5°	1048.8	1096.7	1260.6	1878.2	2455.6	2619.5	8231.5	20317.9	21081.8	18404.3	14867.2
75°	642.9	675.7	771.5	1424.4	2437.9	2561.5	4530.5	16649.6	17458.9	17005.1	13006.6
77.5°	453.8	451.3	468.9	834.5	2112.7	2576.6	2793.4	12199.8	12986.4	12532.6	8826.5
80°	330.3	332.8	350.4	499.2	1434.5	2619.5	2201.0	8171.0	8405.5	6534.8	3481.7
82.5°	199.2	209.3	252.1	337.8	862.2	2364.8	2034.6	4540.6	4248.1	2097.6	958.0
85°	105.9	105.9	148.7	214.3	458.8	1764.8	1958.9	2160.6	1810.2	650.5	355.5
87.5°	25.2	25.2	42.9	85.7	184.0	844.6	1336.2	859.7	688.3	219.3	146.2
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°	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7	5271.7
2.5°	5329.7	5299.4	5337.3	5261.6	5201.1	5203.6	5110.4	5105.3	5092.7	5027.2	5049.8
5°	5390.2	5365.0	5322.1	5238.9	5105.3	4971.7	4891.0	4787.6	4744.8	4722.1	4732.2
7.5°	5448.2	5402.8	5279.3	5163.3	4956.6	4704.4	4558.2	4419.6	4243.1	4222.9	4187.6
10°	5463.3	5367.5	5208.7	4961.6	4686.8	4407.0	4074.2	3817.0	3680.9	3575.0	3534.6
12.5°	5440.6	5400.3	5095.2	4777.6	4361.6	3922.9	3534.6	3171.6	2919.5	2788.4	2753.1
15°	5438.1	5367.5	4969.2	4497.7	3965.8	3393.5	2841.3	2405.2	2140.4	2032.0	2032.0
17.5°	5440.6	5271.7	4820.4	4215.3	3499.3	2725.4	2117.8	1759.8	1613.5	1598.4	1611.0
20°	5390.2	5201.1	4664.1	3882.6	2914.4	2047.2	1537.9	1391.7	1391.7	1411.8	1419.4
22.5°	5344.8	5095.2	4417.0	3471.6	2319.4	1482.4	1250.5	1207.6	1255.5	1290.8	1306.0
25°	5281.8	5007.0	4164.9	3045.5	1764.8	1195.0	1086.6	1096.7	1142.1	1205.1	1200.1
27.5°	5191.0	4853.2	3864.9	2551.4	1313.5	1031.1	1003.4	1008.5	1056.4	1084.1	1079.0
30°	5087.7	4696.9	3587.6	2059.8	1041.2	945.4	942.9	955.5	963.1	978.2	975.7
32.5°	4956.6	4490.1	3292.6	1600.9	937.9	897.5	887.4	879.9	887.4	884.9	877.4
35°	4863.3	4379.2	2992.6	1220.2	879.9	854.7	847.1	834.5	824.4	809.3	806.8
37.5°	4838.1	4268.3	2677.5	995.9	834.5	821.9	796.7	774.0	761.4	753.8	748.8
40°	4822.9	4195.2	2369.9	874.8	796.7	784.1	753.8	723.6	711.0	703.4	705.9
42.5°	4875.9	4154.8	2057.2	814.3	763.9	741.2	708.4	673.1	670.6	665.6	673.1
45°	5062.4	4205.3	1767.3	771.5	731.1	693.3	650.5	632.8	630.3	625.2	630.3
47.5°	5486.0	4331.3	1520.2	743.7	695.8	663.1	617.7	592.5	589.9	587.4	587.4
50°	6070.9	4719.6	1313.5	711.0	673.1	627.8	584.9	557.2	552.1	542.0	542.0
52.5°	6988.6	5372.5	1190.0	693.3	632.8	595.0	549.6	519.4	506.7	496.7	496.7
55°	8022.3	6181.8	1167.3	663.1	589.9	554.7	514.3	484.1	471.5	458.8	453.8
57.5°	9199.6	7253.3	1328.6	642.9	559.7	514.3	468.9	441.2	431.1	418.5	413.5
60°	10296.3	8322.3	1830.3	612.6	532.0	476.5	431.1	403.4	390.8	378.2	378.2
62.5°	11564.5	9645.9	2680.0	612.6	506.7	436.2	390.8	370.6	363.0	350.4	347.9
65°	13064.5	11014.9	3300.2	650.5	499.2	400.9	353.0	332.8	325.2	317.7	315.1
67.5°	14206.6	11801.5	2838.8	751.3	532.0	370.6	315.1	302.5	297.5	289.9	284.9
70°	14327.6	11322.4	1711.9	811.8	564.7	340.4	282.4	269.8	269.8	262.2	257.2
72.5°	13241.0	10046.7	1152.2	723.6	511.8	305.1	249.6	239.5	234.5	229.4	226.9
75°	11080.4	8521.5	910.1	577.3	393.3	252.1	216.8	206.7	199.2	196.6	191.6
77.5°	7442.4	5538.9	673.1	451.3	289.9	204.2	181.5	171.4	163.9	161.4	153.8
80°	2859.0	2110.2	433.6	327.7	204.2	161.4	143.7	133.6	128.6	121.0	116.0
82.5°	842.1	683.2	242.0	201.7	131.1	110.9	103.4	95.8	88.2	80.7	78.2
85°	347.9	312.6	148.7	105.9	80.7	65.5	60.5	52.9	45.4	40.3	35.3
87.5°	161.4	133.6	68.1	40.3	27.7	15.1	7.6	2.5	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)