

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: P478577

Luminaire Tested: **IFLD-L-SA8B-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

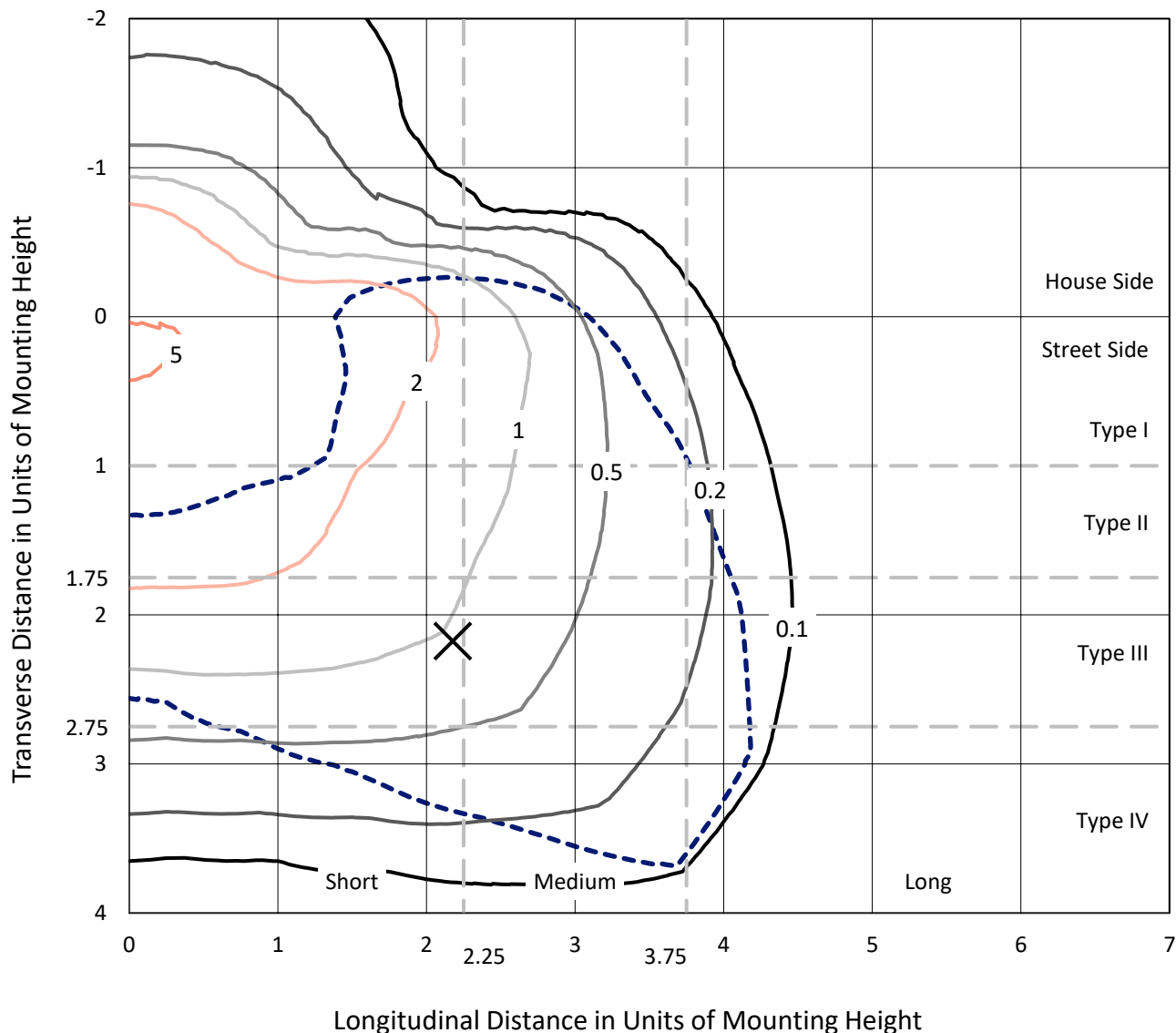
Lumens per Lamp: N/A
Luminaire Lumens: 41137.4 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 320
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

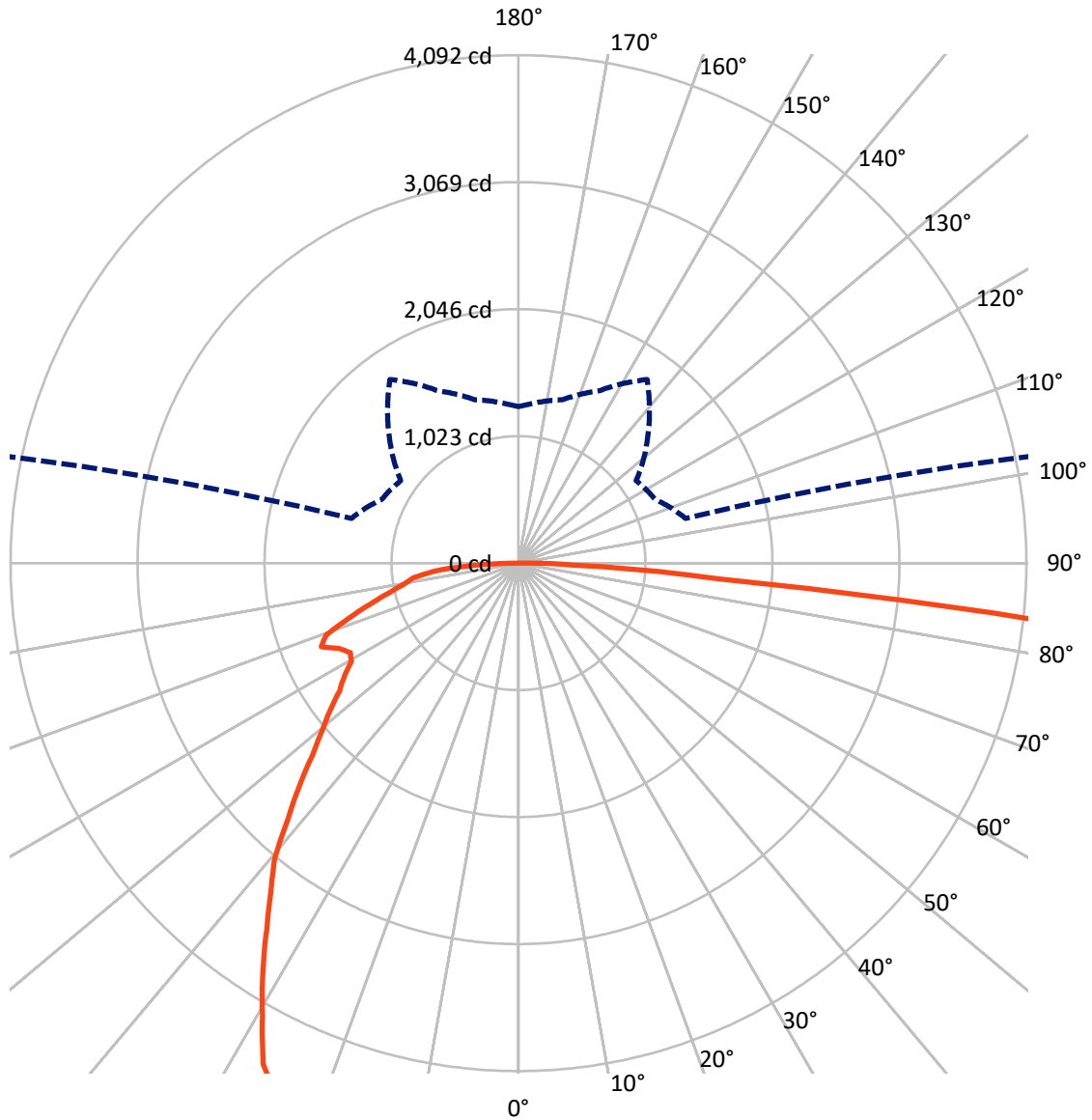
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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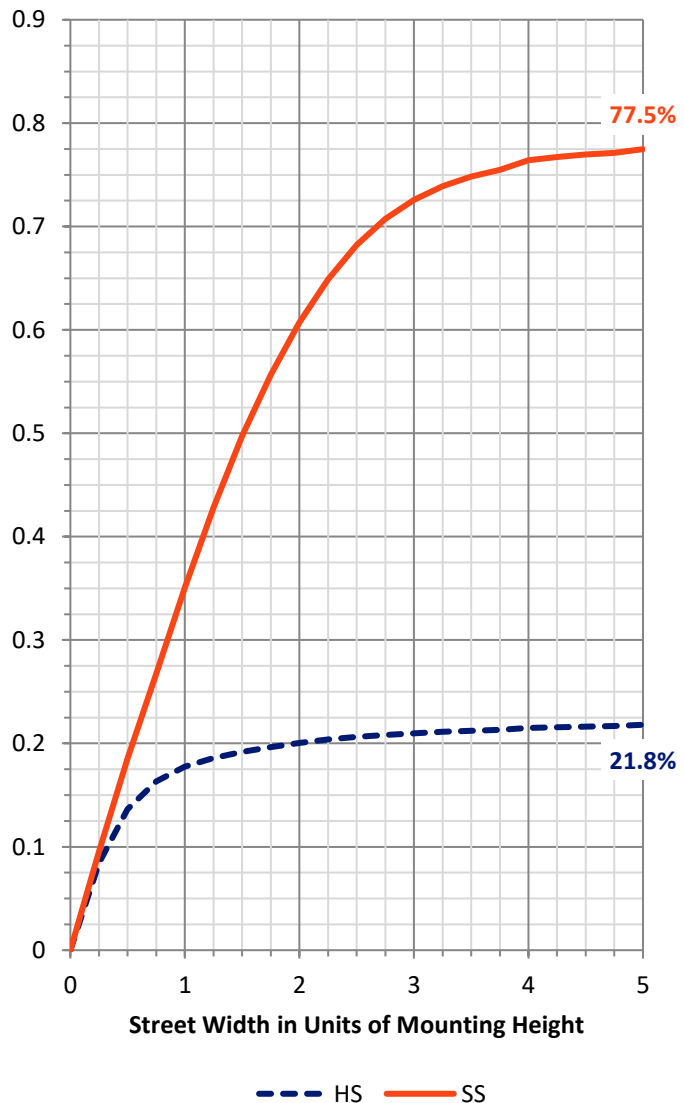
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9157.4	0.0	9157.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	31980.0	0.0	31980.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	41137.4	0.0	41137.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	1.1
10°-20°	1442.3	3.5
20°-30°	2435.6	5.9
30°-40°	3370.5	8.2
40°-50°	4821.2	11.7
50°-60°	7776.0	18.9
60°-70°	11468.5	27.9
70°-80°	8328.1	20.2
80°-90°	1061.6	2.6
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°	41137.4	100.0
0°-180°	41137.4	100.0

Coefficient of Utilization

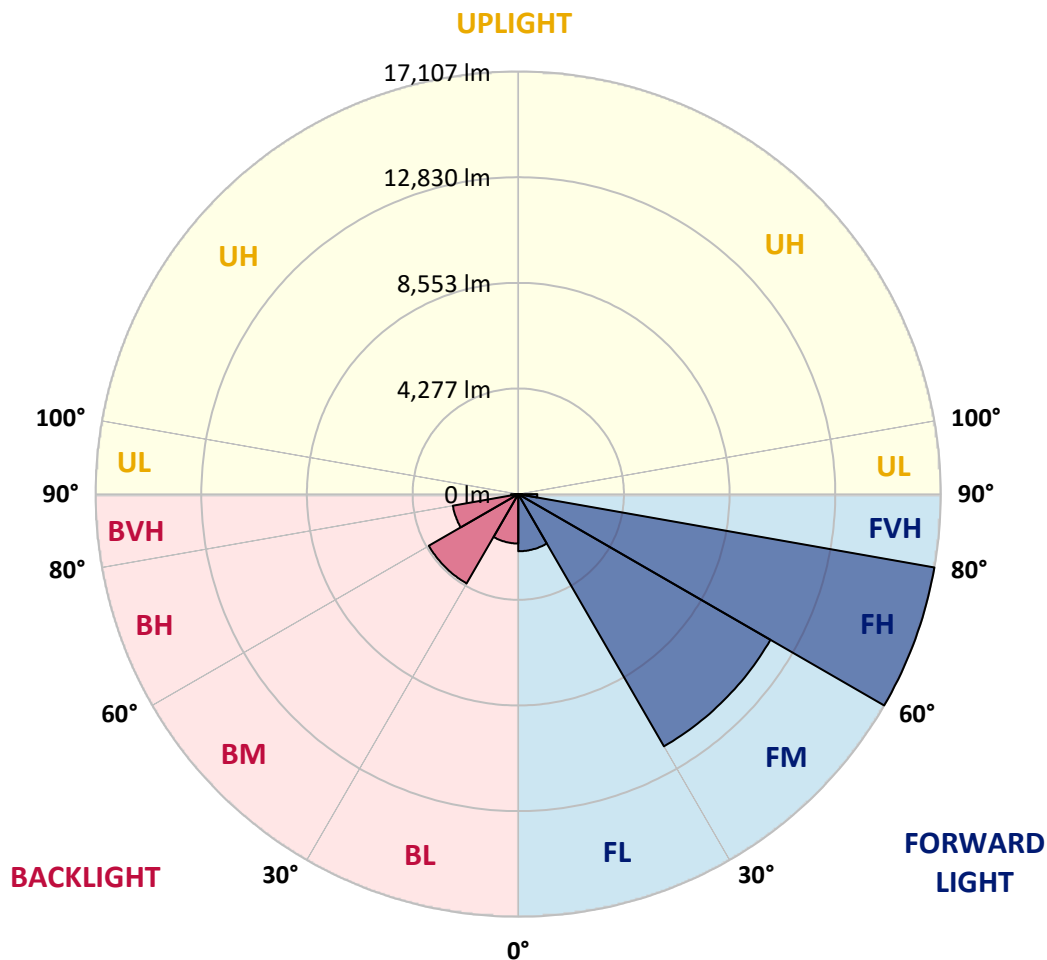


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2311.9	5.6			
FM (30°-60°)	11788.5	28.7			
FH (60°-80°)	17106.8	41.6			G5
FVH (80°-90°)	772.7	1.9			G5
BL (0°-30°)	1999.5	4.9	B3/2500		
BM (30°-60°)	4179.2	10.2	B3/5000		
BH (60°-80°)	2689.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	288.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4462.6	4489.3	4462.6	4458.2	4413.8	4382.8	4409.4	4369.5	4325.1	4307.4	4267.5
5°	4870.8	4875.2	4826.4	4830.8	4737.7	4640.1	4657.8	4538.1	4409.4	4360.6	4280.8
7.5°	5287.7	5239.0	5168.0	5145.8	4999.4	4892.9	4879.6	4773.2	4573.5	4462.6	4351.7
10°	5558.3	5576.1	5460.8	5363.2	5239.0	5110.3	5105.9	4906.2	4790.9	4626.8	4484.8
12.5°	5797.9	5802.3	5704.7	5549.5	5394.2	5234.5	5256.7	5168.0	4972.8	4817.5	4675.6
15°	5984.2	5957.6	5851.1	5709.2	5545.0	5420.8	5407.5	5332.1	5168.0	5039.3	4804.2
17.5°	6037.4	6024.1	5917.7	5766.8	5607.1	5514.0	5549.5	5425.3	5358.7	5243.4	5017.1
20°	5935.4	5904.4	5886.6	5718.0	5602.7	5593.8	5562.8	5589.4	5478.5	5372.0	5207.9
22.5°	5749.1	5735.8	5726.9	5593.8	5540.6	5580.5	5633.8	5673.7	5655.9	5553.9	5367.6
25°	5558.3	5620.4	5562.8	5500.7	5576.1	5678.1	5664.8	5793.5	5793.5	5762.4	5607.1
27.5°	5691.4	5651.5	5607.1	5576.1	5602.7	5762.4	5753.5	5908.8	5966.5	5908.8	5731.3
30°	6024.1	5984.2	5855.6	5718.0	5682.6	5855.6	5899.9	6037.4	6064.1	5922.1	5771.3
32.5°	6649.6	6627.4	6423.4	6019.7	5802.3	5899.9	5922.1	6077.4	6055.2	5966.5	5904.4
35°	7576.7	7501.3	7217.4	6534.3	6055.2	5957.6	5899.9	6024.1	6108.4	6064.1	6006.4
37.5°	8592.6	8508.3	8157.9	7292.8	6512.1	6112.8	6068.5	6170.5	6268.1	6245.9	6126.2
40°	9564.1	9564.1	9249.1	8242.1	7190.8	6489.9	6498.8	6383.4	6472.2	6432.2	6454.4
42.5°	10522.3	10486.8	10358.1	9355.6	7918.3	7119.8	6977.9	6689.5	6849.2	6835.9	6867.0
45°	11493.8	11467.1	11431.6	10393.6	8960.8	7971.5	7896.1	7377.1	7523.5	7461.4	7594.5
47.5°	12270.1	12301.1	12301.1	11551.4	10074.2	9107.2	8996.3	8175.6	8455.1	8486.1	8517.2
50°	12931.0	12944.3	12931.0	12656.0	11316.3	10406.9	10180.7	9346.7	9626.2	9870.2	10154.1
52.5°	13844.8	13862.6	13800.5	13694.0	13002.0	11773.2	11520.4	10593.2	11165.5	11422.8	11932.9
55°	14971.6	14838.5	14723.2	14803.0	14621.2	13277.0	13015.3	11879.7	12740.3	13081.9	14102.1
57.5°	15180.1	15295.4	15588.2	16222.6	16484.3	14740.9	14590.1	13458.9	14519.1	14816.3	16519.8
60°	15916.5	15725.7	16444.4	17819.5	18112.3	16648.4	16493.2	15189.0	16289.1	16599.6	18751.1
62.5°	16400.0	16391.1	17455.8	19088.2	19753.6	18626.9	18311.9	17438.0	18201.0	18502.7	21182.0
65°	16258.0	16386.7	18276.4	19833.5	21124.4	20876.0	20694.1	19372.1	20379.1	20352.5	22765.7
67.5°	14962.7	15326.5	17757.4	20370.2	23164.9	23617.4	23559.8	22091.4	22149.1	21585.7	23471.0
70°	13166.1	13041.9	15561.6	19811.3	24185.2	26869.0	26855.7	24114.3	23741.6	21856.3	21448.2
72°	10114.1	9976.6	12048.3	17012.2	23648.5	28168.8	28568.0	25516.0	23723.9	20734.0	17717.5
72.5°	9182.6	9062.8	11125.6	16014.1	23054.0	28505.9	28319.6	25569.3	23537.6	20206.1	16550.8
75°	4227.5	4090.0	5558.3	9803.6	17983.7	25258.8	25893.1	23927.9	20556.6	16085.0	9914.5
77.5°	1259.8	1219.9	1787.7	3956.9	10451.3	18609.1	18853.1	18054.6	14350.6	8810.0	3677.5
80°	700.9	705.3	922.7	1481.6	4595.7	10757.4	11635.7	11152.2	7040.0	2910.0	1224.3
82.5°	390.4	412.6	576.7	878.3	2111.5	4937.3	5314.4	5123.6	2546.3	1366.3	669.8
85°	204.1	212.9	301.6	470.2	1197.7	1561.5	1605.8	1721.2	1321.9	931.6	359.3
87.5°	79.8	79.8	110.9	195.2	443.6	483.5	434.7	527.9	758.6	603.3	177.4
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°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4302.9	4267.5	4263.0	4205.4	4223.1	4174.3	4178.7	4169.9	4174.3	4165.4	4143.3
5°	4280.8	4254.2	4178.7	4227.5	4183.2	4245.3	4294.1	4276.3	4289.6	4285.2	4289.6
7.5°	4311.8	4276.3	4267.5	4240.8	4280.8	4307.4	4347.3	4458.2	4449.3	4462.6	4489.3
10°	4405.0	4365.1	4338.4	4378.4	4356.2	4440.5	4484.8	4542.5	4644.5	4649.0	4595.7
12.5°	4586.9	4560.2	4507.0	4515.9	4591.3	4617.9	4644.5	4680.0	4746.6	4733.2	4782.0
15°	4795.3	4737.7	4706.6	4697.8	4715.5	4746.6	4742.1	4777.6	4813.1	4844.1	4830.8
17.5°	4946.2	4870.8	4879.6	4924.0	4919.6	4910.7	4853.0	4835.3	4853.0	4870.8	4861.9
20°	5101.4	5110.3	5043.8	5003.8	4986.1	4897.4	4853.0	4799.8	4746.6	4773.2	4813.1
22.5°	5296.6	5256.7	5159.1	5039.3	4950.6	4897.4	4759.9	4666.7	4666.7	4693.3	4680.0
25°	5518.4	5434.1	5265.6	5048.2	4937.3	4711.1	4613.5	4600.2	4564.7	4604.6	4622.3
27.5°	5691.4	5616.0	5385.3	5017.1	4711.1	4529.2	4471.5	4453.8	4511.4	4515.9	4586.9
30°	5762.4	5740.2	5403.1	4937.3	4480.4	4187.6	4152.1	4232.0	4294.1	4387.2	4391.7
32.5°	5855.6	5864.4	5429.7	4751.0	4178.7	3886.0	3832.7	3930.3	4107.8	4183.2	4240.8
35°	6010.8	6055.2	5407.5	4520.3	3859.3	3579.9	3571.0	3597.6	3770.6	3903.7	3979.1
37.5°	6281.4	6272.5	5403.1	4245.3	3606.5	3313.7	3242.7	3251.6	3366.9	3477.8	3464.5
40°	6645.2	6609.7	5389.8	3886.0	3278.2	3087.5	2967.7	2923.3	2914.5	2883.4	2892.3
42.5°	7142.0	7071.0	5385.3	3522.2	2981.0	2777.0	2692.7	2577.3	2493.0	2333.4	2342.2
45°	7834.0	7709.8	5270.0	3180.6	2688.2	2519.7	2391.0	2306.7	2124.9	1925.2	1925.2
47.5°	8903.1	8499.4	5274.4	2803.6	2404.3	2266.8	2178.1	2031.7	1836.5	1676.8	1659.1
50°	10477.9	9555.2	5123.6	2506.4	2173.7	2080.5	1987.3	1818.8	1632.5	1521.6	1534.9
52.5°	12509.6	11130.0	5119.2	2240.2	1991.8	1925.2	1823.2	1672.4	1534.9	1463.9	1437.3
55°	14931.7	13214.9	5278.9	2022.8	1805.5	1770.0	1725.6	1601.4	1468.3	1406.2	1401.8
57.5°	17411.4	15251.1	5536.2	1867.6	1645.8	1672.4	1641.3	1543.7	1437.3	1366.3	1357.4
60°	19616.1	16865.8	5017.1	1681.3	1503.8	1561.5	1605.8	1521.6	1463.9	1459.5	1428.4
62.5°	21279.6	17557.8	3815.0	1539.3	1428.4	1534.9	1654.6	1707.9	1681.3	1716.7	1721.2
65°	21887.4	17140.8	2626.1	1463.9	1370.7	1597.0	1863.1	1845.4	1690.1	1623.6	1659.1
67.5°	21035.7	15450.7	1947.4	1375.2	1330.8	1725.6	1982.9	1761.1	1526.0	1517.1	1490.5
70°	18090.1	13095.2	1588.1	1282.0	1264.3	1654.6	1929.7	1632.5	1437.3	1379.6	1353.0
72°	14412.7	10198.4	1392.9	1215.5	1157.8	1477.2	1805.5	1530.4	1361.9	1290.9	1259.8
72.5°	13157.3	9453.2	1366.3	1184.4	1135.6	1437.3	1743.4	1499.4	1344.1	1282.0	1233.2
75°	7217.4	4839.7	1202.2	1086.8	958.2	1242.1	1614.7	1406.2	1268.7	1180.0	1171.1
77.5°	2683.8	1876.4	1038.0	962.6	829.5	1073.5	1468.3	1335.2	1153.4	1042.5	1020.3
80°	1029.2	989.2	847.3	811.8	696.5	940.4	1353.0	1197.7	980.4	869.5	834.0
82.5°	625.5	576.7	643.2	634.4	532.3	856.2	1273.1	1122.3	869.5	705.3	683.1
85°	341.6	341.6	448.0	430.3	372.6	683.1	962.6	745.3	550.1	452.5	461.3
87.5°	150.8	177.4	239.5	226.2	204.1	385.9	470.2	394.8	275.0	186.3	199.6
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)