

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: P480089

Luminaire Tested: **IFLD-M-SA4C-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480089
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

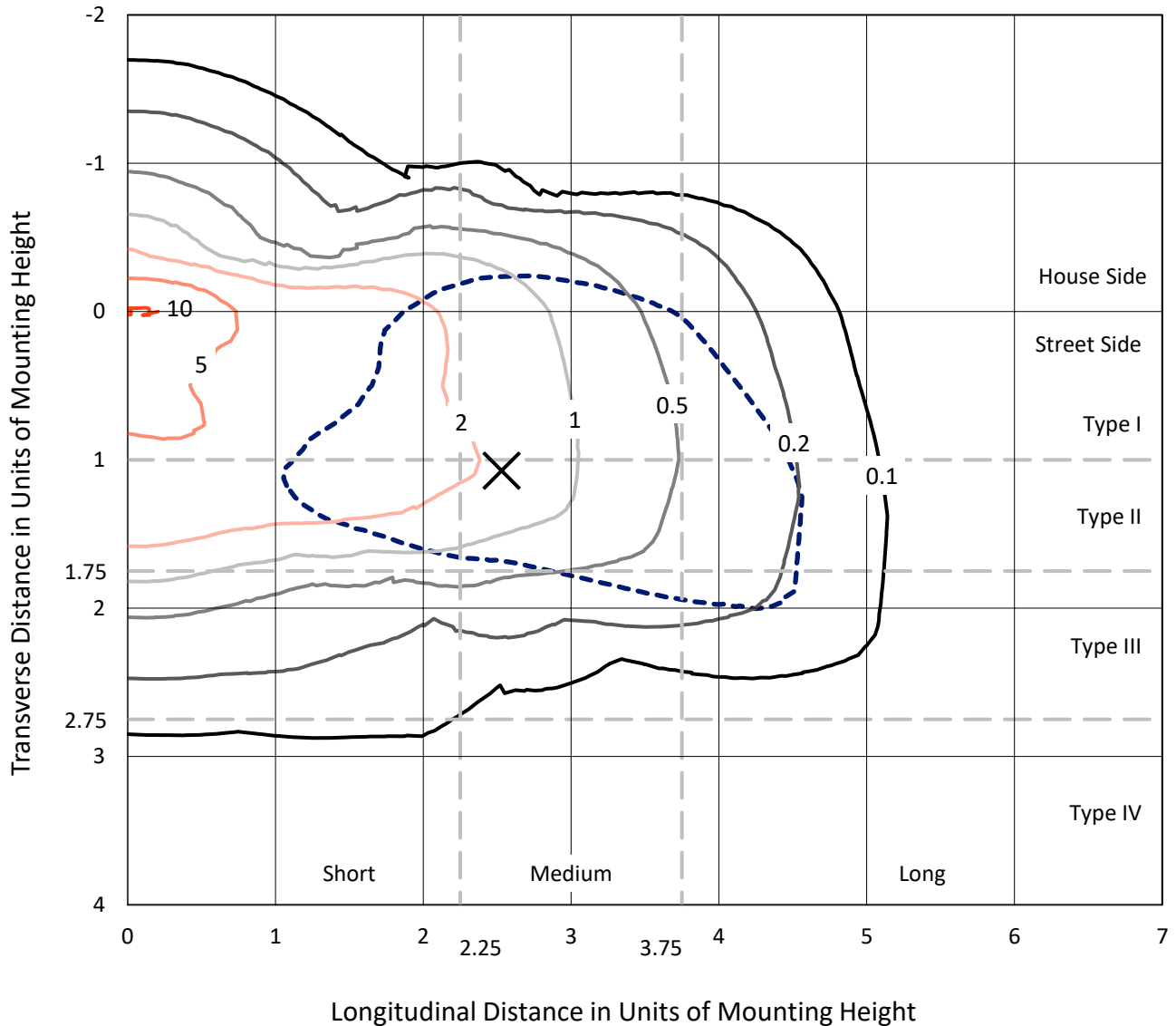
Lumens per Lamp: N/A
Luminaire Lumens: 27959.7 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

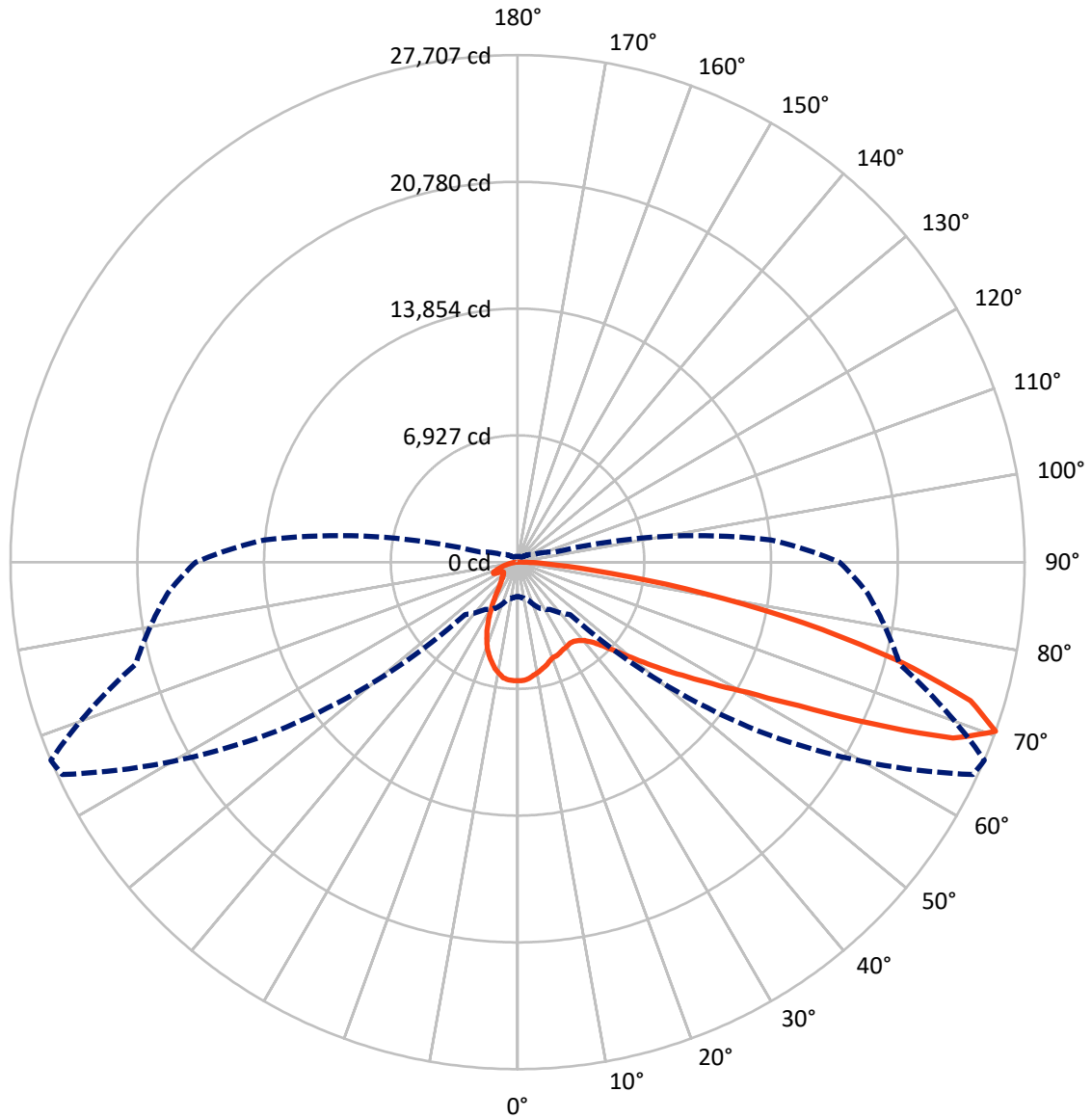
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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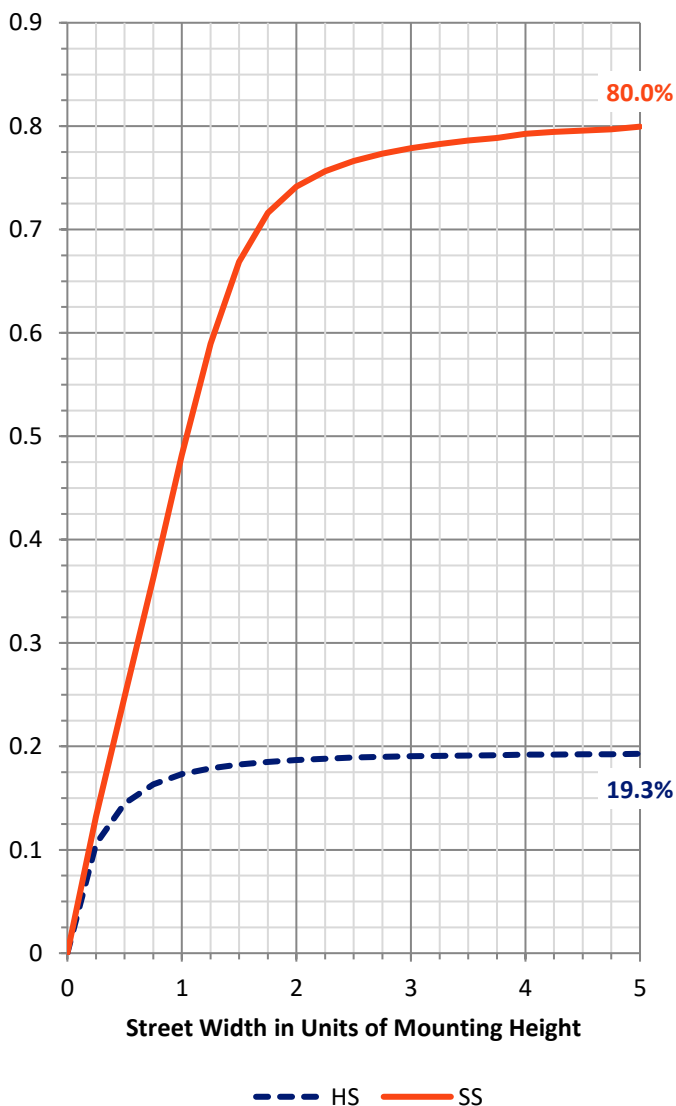
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5445.4	0.0	5445.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22514.3	0.0	22514.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	27959.7	0.0	27959.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.7	2.0
10°-20°	1352.5	4.8
20°-30°	1826.5	6.5
30°-40°	2444.0	8.7
40°-50°	3593.9	12.9
50°-60°	5602.0	20.0
60°-70°	6900.7	24.7
70°-80°	4876.0	17.4
80°-90°	799.2	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°	27959.7	100.0
0°-180°	27959.7	100.0

Coefficient of Utilization

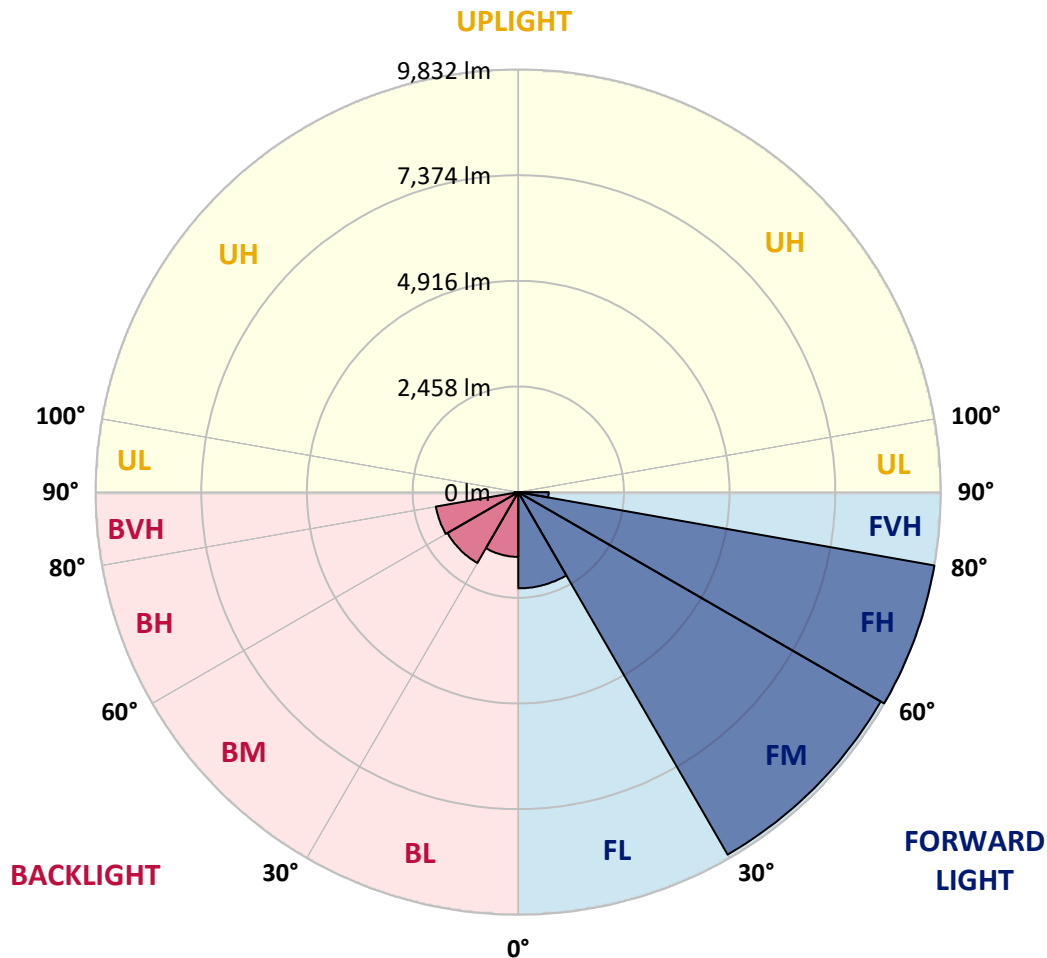


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.0	8.0			
FM (30°-60°)	9737.7	34.8			
FH (60°-80°)	9831.5	35.2			G4/12000
FVH (80°-90°)	707.0	2.5			G4/750
BL (0°-30°)	1505.8	5.4	B3/2500		
BM (30°-60°)	1902.2	6.8	B2/2500		
BH (60°-80°)	1945.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	92.2	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°	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6
2.5°	6026.8	6094.9	6119.7	6156.8	6252.8	6324.0	6367.3	6416.9	6475.7	6525.2	6556.2
5°	5605.8	5643.0	5701.8	5742.0	5862.8	6054.7	6184.7	6395.2	6389.0	6466.4	6584.0
7.5°	5197.3	5234.4	5262.3	5342.7	5516.1	5689.4	5927.8	6268.3	6243.5	6423.0	6605.7
10°	4943.4	4915.6	4924.9	5061.1	5197.3	5392.3	5692.5	6039.2	6129.0	6407.6	6667.6
12.5°	4705.1	4674.1	4748.4	4835.1	5002.2	5178.7	5537.7	5850.4	5986.6	6351.9	6695.4
15°	4556.5	4534.8	4627.7	4664.8	4862.9	5073.4	5327.3	5708.0	5856.6	6283.8	6652.1
17.5°	4472.9	4491.5	4525.5	4606.0	4732.9	4912.5	5191.1	5612.0	5677.0	6200.2	6642.8
20°	4488.4	4510.1	4513.2	4547.2	4633.9	4773.2	5058.0	5509.9	5553.2	6184.7	6667.6
22.5°	4612.2	4581.3	4593.6	4572.0	4596.7	4705.1	4955.8	5373.7	5540.8	6054.7	6615.0
25°	4797.9	4754.6	4748.4	4674.1	4627.7	4658.6	4937.2	5339.6	5448.0	6014.4	6611.9
27.5°	5126.1	5061.1	5061.1	4949.6	4760.8	4711.3	4884.6	5283.9	5379.9	5977.3	6540.7
30°	5441.8	5441.8	5444.9	5287.0	5076.5	4832.0	4906.3	5262.3	5324.2	5865.9	6444.7
32.5°	5825.6	5816.3	5800.9	5723.5	5398.5	5033.2	5011.5	5234.4	5265.4	5828.7	6416.9
35°	6200.2	6175.4	6296.1	6228.0	5896.8	5426.3	5119.9	5246.8	5314.9	5773.0	6330.2
37.5°	6481.9	6497.3	6748.1	6791.4	6506.6	5872.1	5426.3	5370.6	5435.6	5853.5	6330.2
40°	6847.1	6909.0	7144.3	7289.8	7116.4	6460.2	5912.3	5578.0	5624.4	6033.0	6466.4
42.5°	7326.9	7379.5	7679.8	7868.6	7819.1	7209.3	6392.1	6011.4	5974.2	6333.3	6670.7
45°	7961.5	7970.8	8274.1	8534.1	8636.3	7992.4	7153.6	6559.2	6528.3	6850.2	7045.2
47.5°	8716.8	8707.5	8896.3	9174.9	9450.4	8927.3	8029.6	7391.9	7280.5	7590.0	7667.4
50°	9447.3	9407.1	9450.4	9806.4	10335.7	10097.3	9094.4	8410.3	8298.9	8469.1	8602.2
52.5°	9849.7	9899.2	9781.6	10252.1	11276.7	11481.0	10505.9	9626.8	9530.9	9614.4	9846.6
55°	9568.0	9670.2	9592.8	10038.5	11688.4	13168.0	12332.2	11035.3	10911.4	10880.5	11261.2
57.5°	8370.1	8555.8	8571.3	9277.0	11546.0	14474.3	14901.5	12697.5	12511.8	12196.0	12589.2
60°	6426.1	6611.9	6754.3	7590.0	10326.4	15254.3	17879.3	15062.4	14449.5	13632.3	13867.6
62.5°	4503.9	4630.8	4773.2	5287.0	7961.5	14796.2	20454.7	18393.1	17263.3	15146.0	15440.1
65°	3281.2	3380.2	3525.7	3829.1	4890.8	12242.5	21649.5	22349.1	21278.1	17071.4	17034.2
67.5°	2470.2	2532.1	2724.0	3210.0	3389.5	7562.2	20411.4	26528.0	25661.2	19210.3	18315.7
70°	1869.6	1922.3	2101.8	2767.3	3166.6	4055.0	16102.5	27459.7	27707.3	21609.3	19176.3
72.5°	1287.7	1346.5	1547.7	2306.1	3015.0	3216.2	10106.6	24946.2	25884.1	22596.7	18253.8
75°	789.3	829.6	947.2	1748.9	2993.3	3145.0	5562.5	20442.3	21436.0	20878.8	15969.4
77.5°	557.2	554.1	575.8	1024.6	2594.0	3163.5	3429.8	14978.9	15944.6	15387.5	10837.1
80°	405.5	408.6	430.3	612.9	1761.3	3216.2	2702.3	10032.3	10320.2	8023.4	4274.8
82.5°	244.5	256.9	309.5	414.8	1058.6	2903.5	2498.0	5574.9	5215.8	2575.4	1176.3
85°	130.0	130.0	182.6	263.1	563.4	2166.8	2405.2	2652.8	2222.5	798.6	436.5
87.5°	31.0	31.0	52.6	105.2	226.0	1037.0	1640.6	1055.5	845.1	269.3	179.5
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°	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6	6472.6
2.5°	6543.8	6506.6	6553.1	6460.2	6385.9	6389.0	6274.5	6268.3	6252.8	6172.3	6200.2
5°	6618.1	6587.1	6534.5	6432.3	6268.3	6104.2	6005.2	5878.2	5825.6	5797.8	5810.1
7.5°	6689.3	6633.5	6481.9	6339.5	6085.6	5776.1	5596.6	5426.3	5209.6	5184.9	5141.5
10°	6707.8	6590.2	6395.2	6091.8	5754.4	5410.8	5002.2	4686.5	4519.3	4389.3	4339.8
12.5°	6680.0	6630.4	6255.9	5865.9	5355.1	4816.5	4339.8	3894.1	3584.5	3423.6	3380.2
15°	6676.9	6590.2	6101.1	5522.3	4869.1	4166.5	3488.6	2953.1	2628.0	2494.9	2494.9
17.5°	6680.0	6472.6	5918.5	5175.6	4296.5	3346.2	2600.2	2160.6	1981.1	1962.5	1978.0
20°	6618.1	6385.9	5726.6	4767.0	3578.3	2513.5	1888.2	1708.7	1708.7	1733.4	1742.7
22.5°	6562.3	6255.9	5423.2	4262.4	2847.8	1820.1	1535.3	1482.7	1541.5	1584.9	1603.4
25°	6485.0	6147.6	5113.7	3739.3	2166.8	1467.2	1334.1	1346.5	1402.2	1479.6	1473.4
27.5°	6373.5	5958.7	4745.3	3132.6	1612.7	1266.0	1232.0	1238.2	1297.0	1331.0	1324.9
30°	6246.6	5766.8	4404.8	2529.0	1278.4	1160.8	1157.7	1173.2	1182.5	1201.0	1197.9
32.5°	6085.6	5513.0	4042.6	1965.6	1151.5	1102.0	1089.6	1080.3	1089.6	1086.5	1077.2
35°	5971.1	5376.8	3674.3	1498.2	1080.3	1049.4	1040.1	1024.6	1012.2	993.6	990.5
37.5°	5940.2	5240.6	3287.4	1222.7	1024.6	1009.1	978.2	950.3	934.8	925.5	919.3
40°	5921.6	5150.8	2909.7	1074.1	978.2	962.7	925.5	888.4	872.9	863.6	866.7
42.5°	5986.6	5101.3	2525.9	999.8	937.9	910.1	869.8	826.5	823.4	817.2	826.5
45°	6215.7	5163.2	2169.9	947.2	897.7	851.2	798.6	777.0	773.9	767.7	773.9
47.5°	6735.7	5318.0	1866.6	913.2	854.3	814.1	758.4	727.4	724.3	721.2	721.2
50°	7453.8	5794.7	1612.7	872.9	826.5	770.8	718.1	684.1	677.9	665.5	665.5
52.5°	8580.6	6596.4	1461.0	851.2	777.0	730.5	674.8	637.7	622.2	609.8	609.8
55°	9849.7	7590.0	1433.2	814.1	724.3	681.0	631.5	594.3	578.8	563.4	557.2
57.5°	11295.3	8905.6	1631.3	789.3	687.2	631.5	575.8	541.7	529.3	513.8	507.7
60°	12641.8	10218.1	2247.3	752.2	653.1	585.0	529.3	495.3	479.8	464.3	464.3
62.5°	14198.8	11843.2	3290.5	752.2	622.2	535.5	479.8	455.0	445.7	430.3	427.2
65°	16040.6	13524.0	4051.9	798.6	612.9	492.2	433.4	408.6	399.3	390.0	386.9
67.5°	17442.8	14489.8	3485.5	922.4	653.1	455.0	386.9	371.5	365.3	356.0	349.8
70°	17591.4	13901.6	2101.8	996.7	693.4	417.9	346.7	331.2	331.2	321.9	315.7
72.5°	16257.3	12335.3	1414.6	888.4	628.4	374.5	306.4	294.1	287.9	281.7	278.6
75°	13604.5	10462.6	1117.5	708.9	482.9	309.5	266.2	253.8	244.5	241.4	235.3
77.5°	9137.8	6800.7	826.5	554.1	356.0	250.7	222.9	210.5	201.2	198.1	188.8
80°	3510.2	2590.9	532.4	402.4	250.7	198.1	176.4	164.1	157.9	148.6	142.4
82.5°	1033.9	838.9	297.2	247.6	161.0	136.2	126.9	117.6	108.3	99.1	96.0
85°	427.2	383.8	182.6	130.0	99.1	80.5	74.3	65.0	55.7	49.5	43.3
87.5°	198.1	164.1	83.6	49.5	34.0	18.6	9.3	3.1	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)