

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: P481451

Luminaire Tested: **IFLD-S-SA6E-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481451  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

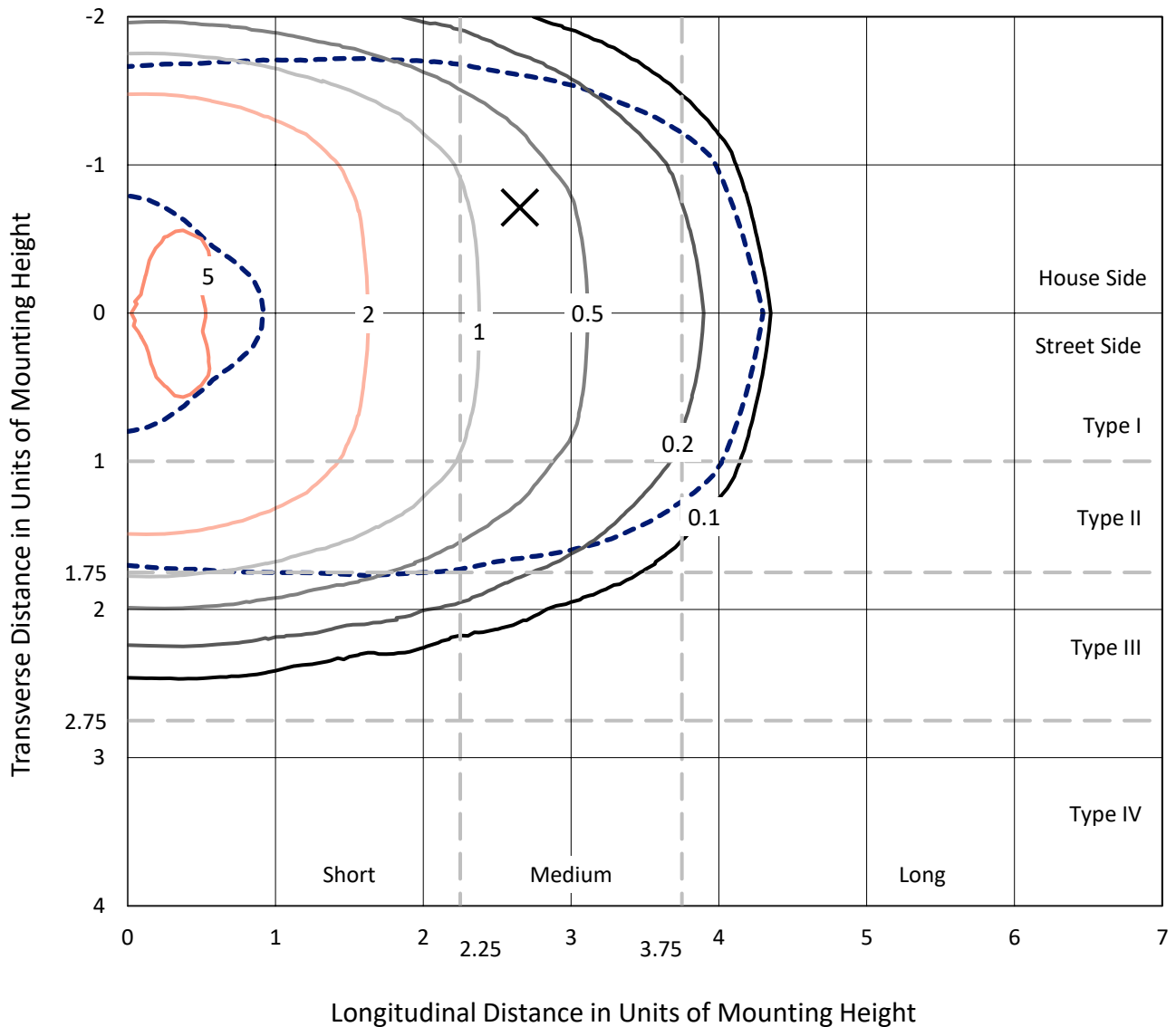
Lumens per Lamp: N/A  
Luminaire Lumens: 43307.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2  
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

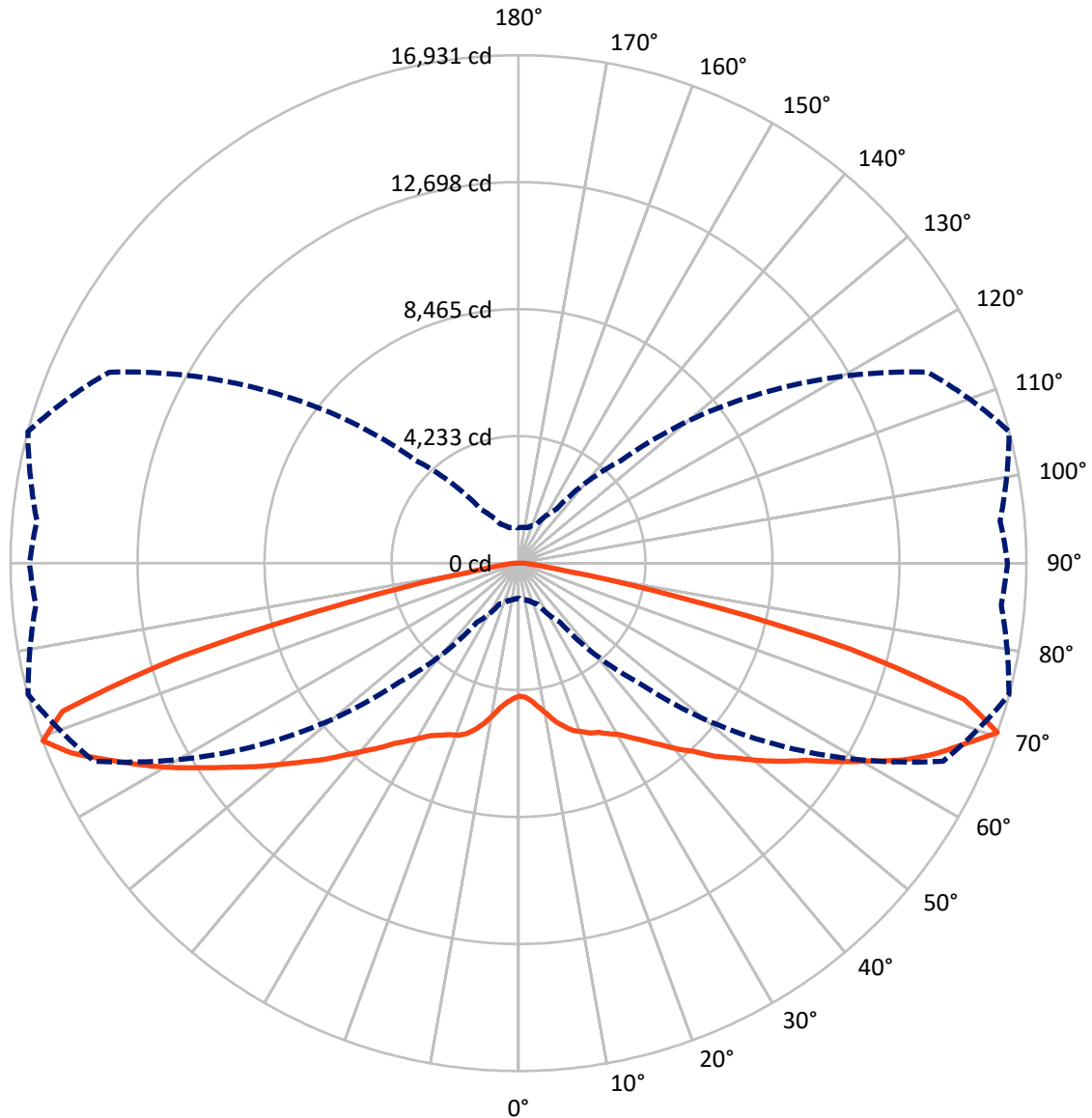
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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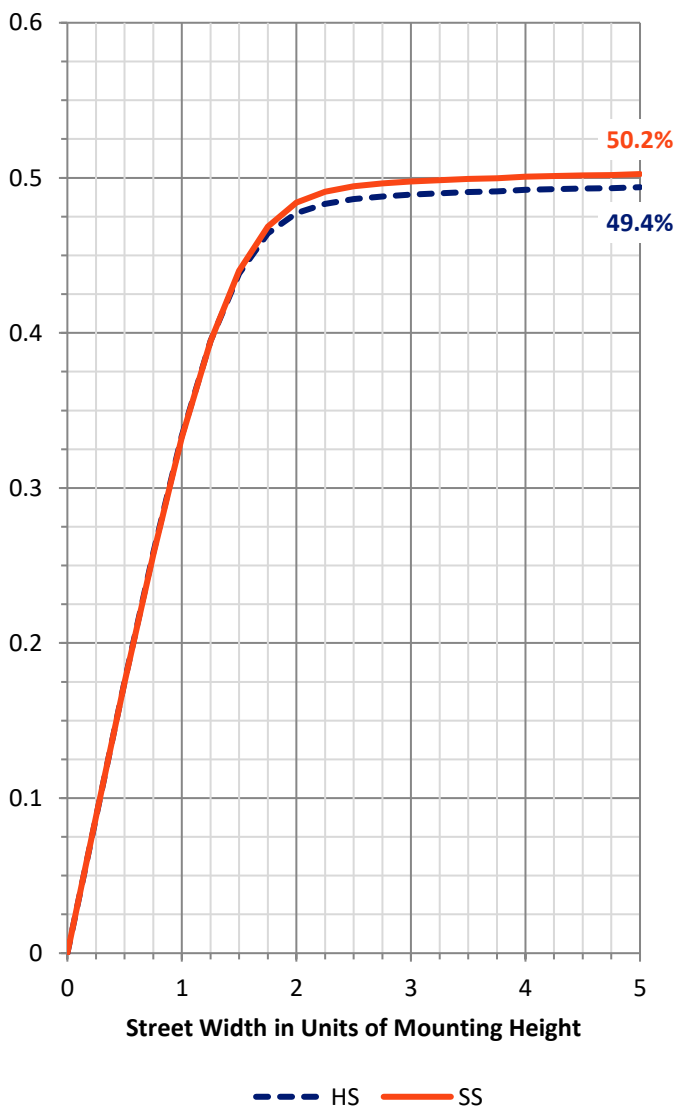
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21499.5	0.0	21499.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	21807.6	0.0	21807.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	43307.1	0.0	43307.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.4	1.0
10°-20°	1502.9	3.5
20°-30°	2910.1	6.7
30°-40°	4922.2	11.4
40°-50°	7852.4	18.1
50°-60°	10748.3	24.8
60°-70°	10131.0	23.4
70°-80°	4463.0	10.3
80°-90°	335.8	0.8
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°	43307.1	100.0
0°-180°	43307.1	100.0

**Coefficient of Utilization**

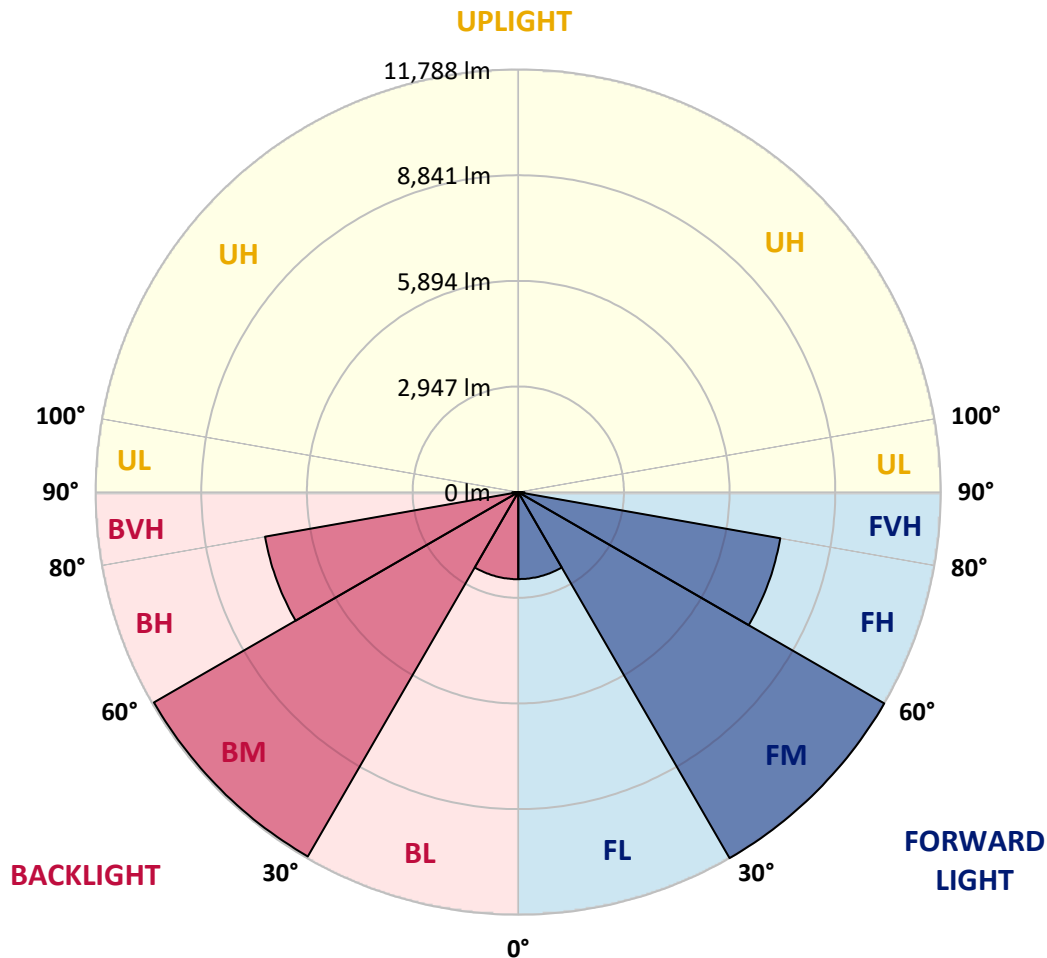


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.9	5.6			
FM (30°-60°)	11787.8	27.2			
FH (60°-80°)	7422.4	17.1			G3/7500
FVH (80°-90°)	171.5	0.4			G2/225
BL (0°-30°)	2428.5	5.6	B3/2500		
BM (30°-60°)	11735.1	27.1	B5		
BH (60°-80°)	7171.6	16.6	B5		G5
BVH (80°-90°)	164.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4406.6	4406.6	4401.9	4425.3	4448.6	4457.9	4476.6	4481.3	4509.3	4486.0	4532.6
5°	4392.6	4387.9	4425.3	4481.3	4481.3	4542.0	4579.3	4630.7	4644.7	4672.7	4682.0
7.5°	4490.6	4481.3	4462.6	4523.3	4574.6	4668.0	4719.4	4808.0	4840.7	4878.1	4920.1
10°	4551.3	4551.3	4532.6	4640.0	4686.7	4812.7	4924.7	5013.4	5139.5	5181.5	5186.2
12.5°	4560.6	4574.6	4630.7	4770.7	4901.4	5064.8	5148.8	5316.9	5442.9	5522.3	5550.3
15°	4700.7	4672.7	4733.4	4924.7	5116.1	5260.8	5410.2	5531.6	5713.6	5816.3	5881.7
17.5°	4826.7	4798.7	4910.7	5139.5	5335.5	5559.6	5690.3	5821.0	5951.7	6045.1	6049.7
20°	5027.4	5050.8	5148.8	5396.2	5653.0	5849.0	5998.4	6021.7	6087.1	6222.5	6199.1
22.5°	5274.8	5256.2	5461.6	5732.3	6012.4	6175.8	6259.8	6199.1	6166.4	6311.1	6343.8
25°	5522.3	5578.3	5765.0	6017.1	6353.2	6572.6	6595.9	6427.8	6306.5	6357.8	6343.8
27.5°	5900.4	5909.7	6105.8	6404.5	6745.3	6936.7	6922.7	6684.6	6451.2	6455.9	6465.2
30°	6385.8	6339.2	6553.9	6824.6	7160.7	7333.4	7356.8	7016.0	6703.3	6609.9	6633.2
32.5°	6852.6	6908.7	7095.4	7403.5	7650.9	7748.9	7697.5	7394.1	6988.0	6862.0	6876.0
35°	7450.1	7440.8	7697.5	7959.0	8145.7	8164.3	8122.3	7678.9	7296.1	7132.7	7067.4
37.5°	8089.7	8173.7	8341.7	8556.5	8752.5	8761.9	8533.1	8178.4	7706.9	7436.1	7515.5
40°	8803.9	8897.2	9018.6	9331.3	9476.1	9326.7	9093.3	8612.5	8122.3	7884.3	7921.6
42.5°	9434.0	9476.1	9723.5	10092.2	10162.3	10096.9	9751.5	9168.0	8598.5	8337.1	8355.7
45°	10012.9	10068.9	10391.0	10722.4	10885.8	10773.8	10372.3	9816.8	9154.0	8929.9	8841.2
47.5°	10545.0	10657.1	10969.8	11310.6	11562.7	11572.0	11077.2	10405.0	9704.8	9410.7	9406.0
50°	10904.5	11067.8	11375.9	11763.4	12132.2	12276.9	11782.1	11058.5	10307.0	9994.2	9961.5
52.5°	11100.5	11268.6	11576.7	12178.8	12589.6	12813.7	12580.3	11670.0	11011.8	10685.1	10633.7
55°	10862.5	10974.5	11478.6	12323.5	12958.4	13327.2	13173.1	12514.9	11712.0	11446.0	11492.6
57.5°	9849.5	10082.9	10703.7	11758.7	12949.1	13854.6	13840.6	13313.2	12519.6	12267.5	12276.9
60°	8108.3	8304.4	9069.9	10545.0	12426.2	14069.4	14564.2	14088.0	13425.2	13131.1	13121.8
62.5°	5723.0	5970.4	6857.3	8467.8	10885.8	13770.6	15395.1	15063.7	14312.1	14097.4	14176.7
65°	3202.3	3351.6	4173.2	5629.6	8295.1	12127.5	15544.5	16076.6	15213.0	14886.3	14900.3
67.5°	1713.2	1769.2	2152.0	2954.8	5074.1	9350.0	14036.7	16660.1	16188.7	15623.8	15535.1
70°	1176.3	1195.0	1293.0	1512.4	2399.4	5592.3	10587.0	15619.2	16921.5	16151.3	16300.7
72.5°	994.3	984.9	1008.3	1031.6	1255.7	2502.1	6213.1	12020.1	15973.9	15684.5	15628.5
75°	863.6	858.9	868.2	844.9	872.9	1101.7	2749.5	7492.2	11693.4	13051.8	13261.8
77.5°	714.2	718.9	723.5	700.2	690.9	728.2	1106.3	3290.9	5755.7	6353.2	6852.6
80°	541.5	550.8	588.2	564.8	527.5	532.2	653.5	1101.7	1652.5	1498.4	1545.1
82.5°	368.8	373.4	452.8	424.8	396.8	359.4	420.1	569.5	644.2	490.1	429.5
85°	261.4	256.7	294.1	270.7	252.1	182.1	252.1	322.1	387.4	242.7	219.4
87.5°	60.7	60.7	121.4	98.0	93.4	74.7	98.0	126.0	168.0	107.4	98.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4518.6	4476.6	4476.6	4467.3	4429.9	4420.6	4387.9	4397.3	4373.9	4350.6
5°	4677.3	4621.3	4621.3	4542.0	4467.3	4457.9	4420.6	4420.6	4383.3	4392.6
7.5°	4896.7	4845.4	4761.4	4691.3	4588.7	4546.6	4476.6	4467.3	4457.9	4439.3
10°	5158.1	5092.8	5008.8	4864.1	4780.0	4700.7	4630.7	4532.6	4509.3	4514.0
12.5°	5512.9	5410.2	5228.2	5102.1	4994.8	4892.1	4789.4	4644.7	4612.0	4626.0
15°	5765.0	5634.3	5452.2	5405.6	5260.8	5134.8	4966.8	4803.4	4747.4	4733.4
17.5°	5970.4	5863.0	5755.7	5685.6	5568.9	5414.9	5181.5	4994.8	4868.7	4854.7
20°	6138.4	5998.4	5975.1	6017.1	5872.4	5769.7	5484.9	5256.2	5088.1	5018.1
22.5°	6241.1	6152.4	6217.8	6255.1	6245.8	6073.1	5779.0	5512.9	5302.9	5237.5
25°	6353.2	6250.5	6483.9	6609.9	6642.6	6357.8	6129.1	5779.0	5573.6	5531.6
27.5°	6409.2	6446.5	6717.3	6983.3	6960.0	6740.6	6432.5	6119.8	5956.4	5881.7
30°	6572.6	6633.2	7044.0	7342.8	7347.4	7132.7	6899.3	6544.5	6362.5	6329.8
32.5°	6866.6	6941.3	7380.1	7697.5	7753.6	7590.2	7356.8	7137.4	6950.7	6876.0
35°	7090.7	7282.1	7776.9	8066.3	8215.7	8117.7	7987.0	7758.2	7562.2	7496.8
37.5°	7412.8	7678.9	8155.0	8547.1	8715.2	8705.8	8607.8	8360.4	8197.0	8141.0
40°	7874.9	8141.0	8575.1	9093.3	9406.0	9392.0	9336.0	9144.6	8901.9	8873.9
42.5°	8365.1	8584.5	9149.3	9742.1	10190.3	10143.6	9994.2	9770.1	9602.1	9564.7
45°	8841.2	9182.0	9704.8	10465.7	10801.8	10918.5	10741.1	10358.3	10166.9	10143.6
47.5°	9438.7	9709.5	10363.0	11044.5	11544.0	11562.7	11259.2	10904.5	10554.4	10629.1
50°	9970.9	10330.3	10993.2	11740.0	12337.5	12122.8	11735.4	11291.9	11039.8	10941.8
52.5°	10540.4	10979.2	11749.4	12510.3	12841.7	12627.0	11996.8	11502.0	11119.2	11077.2
55°	11371.3	11600.0	12608.3	13191.8	13299.2	12846.4	11917.4	11217.2	10722.4	10601.0
57.5°	12216.2	12482.3	13364.5	13868.7	13756.6	12725.0	11403.9	10321.0	9672.1	9499.4
60°	13070.4	13397.2	14139.4	14601.5	14022.7	11889.4	9952.2	8556.5	7800.2	7646.2
62.5°	14022.7	14447.5	15110.3	15273.7	13233.8	10236.9	7898.3	6175.8	5410.2	5153.5
65°	14867.6	15301.7	16118.6	15133.7	11558.0	7636.9	5106.8	3529.0	2964.2	2758.8
67.5°	15563.1	16053.3	16454.7	13392.5	8463.1	4472.0	2660.8	1857.9	1647.8	1573.1
70°	16114.0	16930.9	15054.3	9844.8	4836.1	2180.0	1437.7	1223.0	1195.0	1176.3
72.5°	15633.2	15525.8	11240.6	5681.0	2119.3	1199.7	1041.0	1008.3	1003.6	1008.3
75°	12785.7	11403.9	6721.9	2469.4	1064.3	868.2	863.6	849.6	872.9	872.9
77.5°	6203.8	5424.2	2810.1	1059.6	700.2	681.5	704.9	704.9	704.9	704.9
80°	1437.7	1591.8	1003.6	644.2	508.8	508.8	560.2	564.8	541.5	532.2
82.5°	490.1	653.5	550.8	406.1	336.1	378.1	424.8	434.1	359.4	364.1
85°	242.7	382.8	298.8	233.4	172.7	233.4	275.4	289.4	247.4	238.1
87.5°	112.0	168.0	112.0	79.4	60.7	84.0	79.4	65.4	37.3	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)