

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: P481412

Luminaire Tested: **IFLD-S-SA6E-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481412  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

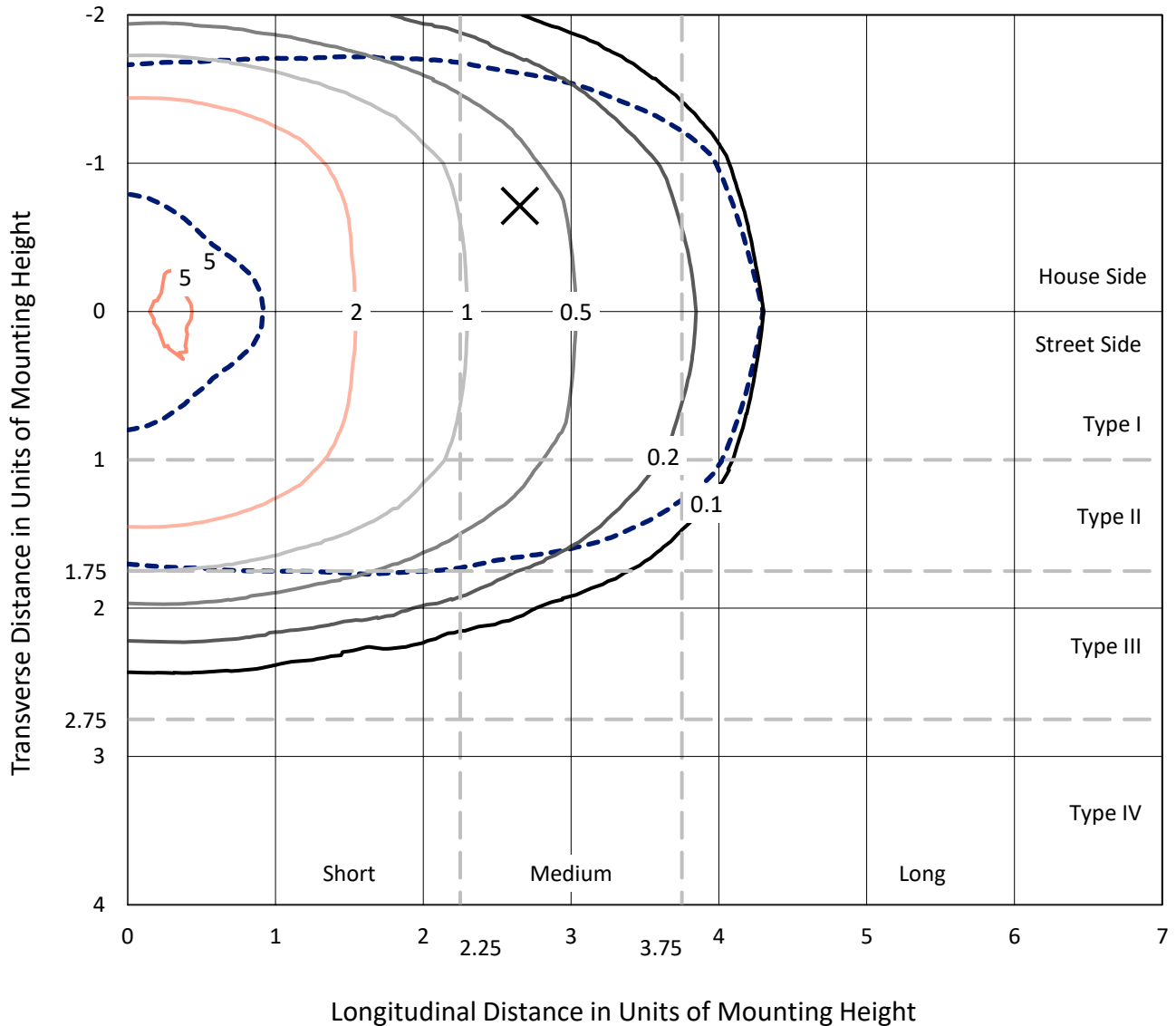
Lumens per Lamp: N/A  
Luminaire Lumens: 40064.3 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

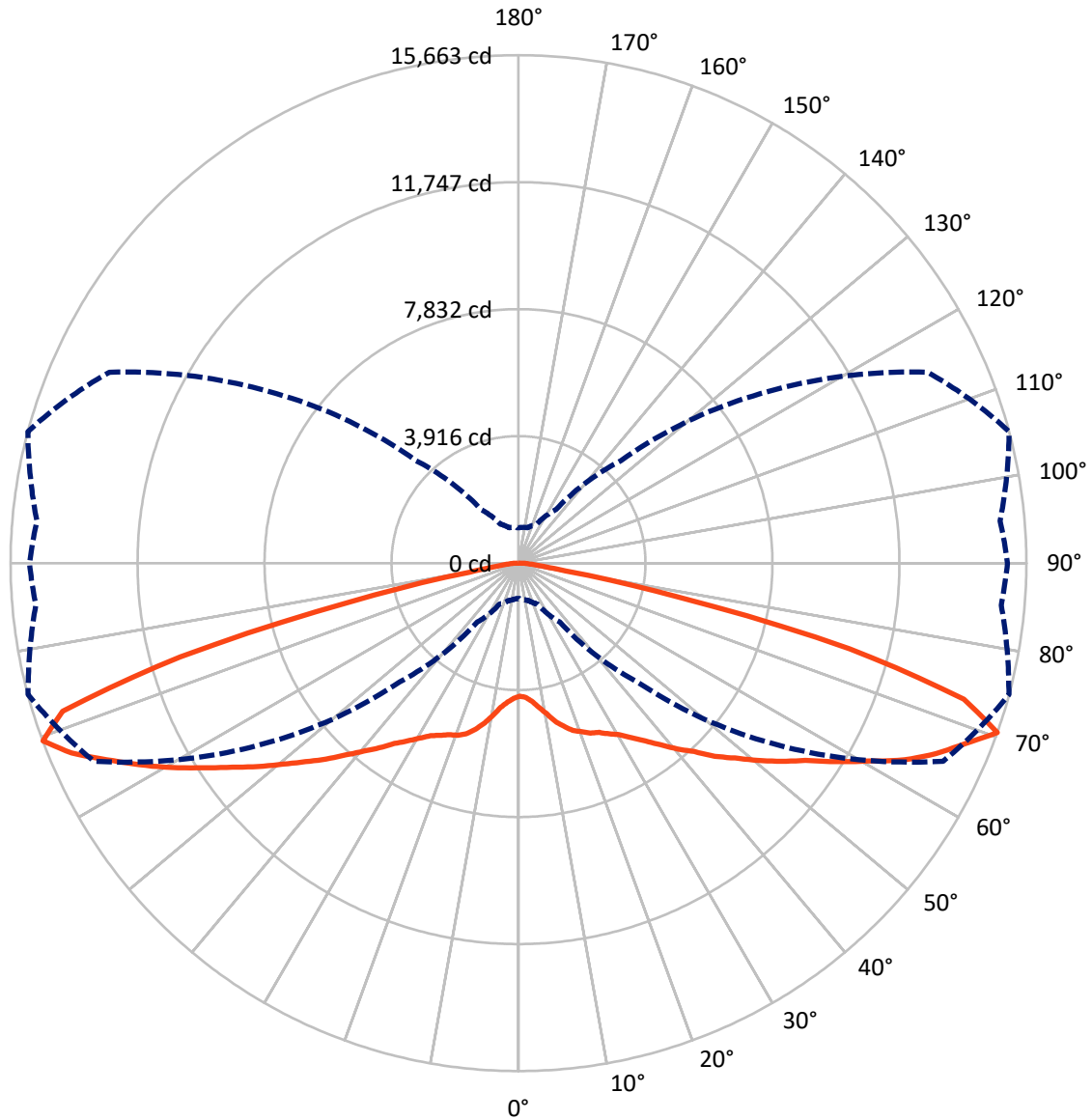
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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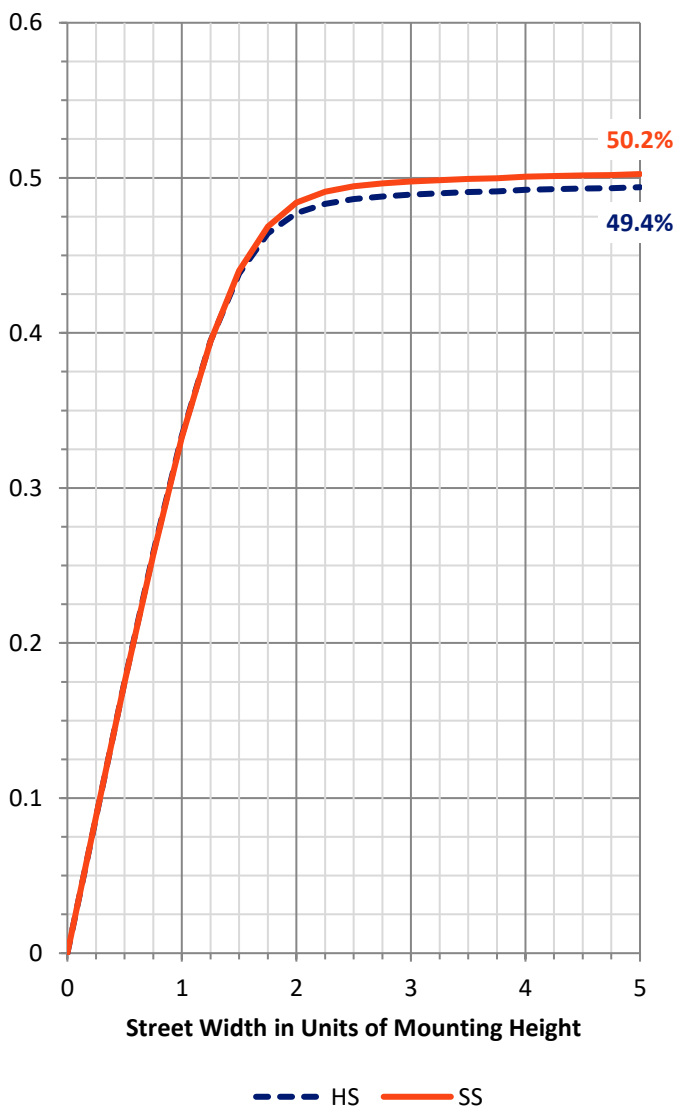
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19889.6	0.0	19889.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	20174.7	0.0	20174.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	40064.3	0.0	40064.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.3	1.0
10°-20°	1390.4	3.5
20°-30°	2692.2	6.7
30°-40°	4553.7	11.4
40°-50°	7264.4	18.1
50°-60°	9943.4	24.8
60°-70°	9372.4	23.4
70°-80°	4128.8	10.3
80°-90°	310.7	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°	40064.3	100.0
0°-180°	40064.3	100.0

**Coefficient of Utilization**

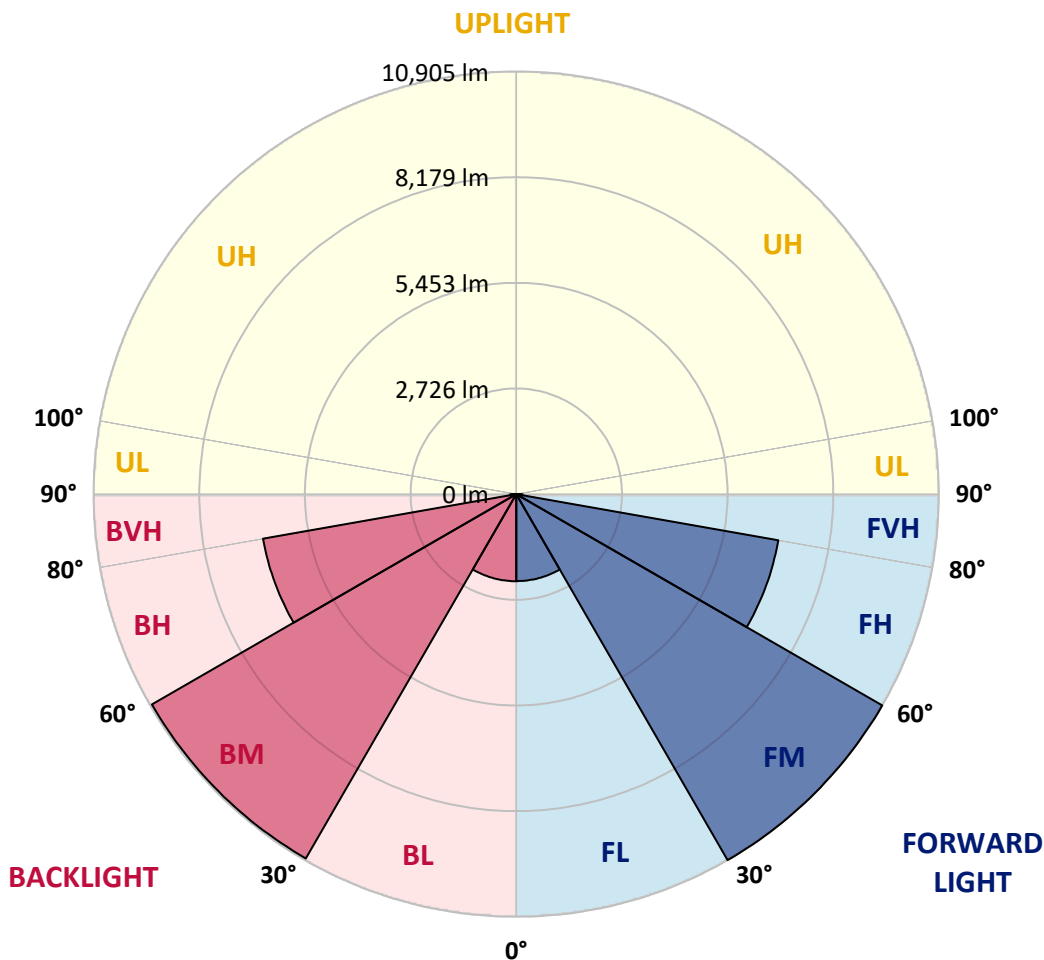


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2244.2	5.6			
FM (30°-60°)	10905.1	27.2			
FH (60°-80°)	6866.6	17.1			G3/7500
FVH (80°-90°)	158.7	0.4			G2/225
BL (0°-30°)	2246.7	5.6	B3/2500		
BM (30°-60°)	10856.4	27.1	B5		
BH (60°-80°)	6634.6	16.6	B5		G5
BVH (80°-90°)	152.0	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°	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5
2.5°	4076.6	4076.6	4072.3	4093.9	4115.5	4124.1	4141.4	4145.7	4171.6	4150.0	4193.2
5°	4063.7	4059.4	4093.9	4145.7	4145.7	4201.9	4236.4	4283.9	4296.9	4322.8	4331.4
7.5°	4154.4	4145.7	4128.5	4184.6	4232.1	4318.5	4366.0	4448.0	4478.2	4512.8	4551.7
10°	4210.5	4210.5	4193.2	4292.6	4335.7	4452.3	4556.0	4638.0	4754.6	4793.5	4797.8
12.5°	4219.1	4232.1	4283.9	4413.5	4534.4	4685.5	4763.3	4918.7	5035.3	5108.7	5134.7
15°	4348.7	4322.8	4378.9	4556.0	4733.0	4866.9	5005.1	5117.4	5285.8	5380.8	5441.3
17.5°	4465.3	4439.4	4543.0	4754.6	4936.0	5143.3	5264.2	5385.1	5506.0	5592.4	5596.7
20°	4651.0	4672.6	4763.3	4992.1	5229.7	5411.0	5549.2	5570.8	5631.3	5756.5	5734.9
22.5°	4879.9	4862.6	5052.6	5303.1	5562.2	5713.3	5791.1	5734.9	5704.7	5838.6	5868.8
25°	5108.7	5160.6	5333.3	5566.5	5877.4	6080.4	6102.0	5946.5	5834.2	5881.8	5868.8
27.5°	5458.5	5467.2	5648.6	5924.9	6240.2	6417.2	6404.3	6184.0	5968.1	5972.4	5981.1
30°	5907.7	5864.5	6063.1	6313.6	6624.5	6784.3	6805.9	6490.7	6201.3	6114.9	6136.5
32.5°	6339.5	6391.3	6564.1	6849.1	7078.0	7168.7	7121.2	6840.5	6464.7	6348.1	6361.1
35°	6892.3	6883.6	7121.2	7363.0	7535.7	7553.0	7514.1	7103.9	6749.8	6598.6	6538.2
37.5°	7483.9	7561.6	7717.1	7915.7	8097.1	8105.8	7894.2	7566.0	7129.8	6879.3	6952.7
40°	8144.6	8231.0	8343.3	8632.6	8766.5	8628.3	8412.4	7967.6	7514.1	7293.9	7328.4
42.5°	8727.6	8766.5	8995.4	9336.5	9401.3	9340.8	9021.3	8481.5	7954.6	7712.8	7730.1
45°	9263.1	9314.9	9612.9	9919.5	10070.7	9967.0	9595.6	9081.7	8468.5	8261.2	8179.2
47.5°	9755.4	9859.1	10148.4	10463.6	10696.8	10705.5	10247.7	9625.9	8978.1	8706.0	8701.7
50°	10087.9	10239.1	10524.1	10882.5	11223.7	11357.6	10899.8	10230.4	9535.2	9245.8	9215.6
52.5°	10269.3	10424.8	10709.8	11266.9	11646.9	11854.2	11638.3	10796.2	10187.3	9885.0	9837.5
55°	10049.1	10152.7	10619.1	11400.8	11988.1	12329.2	12186.7	11577.8	10835.0	10588.9	10632.1
57.5°	9112.0	9327.9	9902.2	10878.2	11979.4	12817.2	12804.3	12316.3	11582.1	11348.9	11357.6
60°	7501.2	7682.6	8390.8	9755.4	11495.8	13015.9	13473.6	13033.1	12419.9	12147.8	12139.2
62.5°	5294.4	5523.3	6343.8	7833.7	10070.7	12739.5	14242.3	13935.7	13240.4	13041.8	13115.2
65°	2962.5	3100.7	3860.7	5208.1	7673.9	11219.4	14380.5	14872.8	14073.9	13771.6	13784.5
67.5°	1584.9	1636.7	1990.8	2733.6	4694.2	8649.9	12985.6	15412.6	14976.4	14453.9	14371.9
70°	1088.3	1105.5	1196.2	1399.2	2219.7	5173.5	9794.3	14449.6	15654.4	14941.9	15080.1
72.5°	919.8	911.2	932.8	954.4	1161.7	2314.7	5747.9	11120.0	14777.8	14510.0	14458.2
75°	798.9	794.6	803.2	781.6	807.6	1019.2	2543.6	6931.1	10817.8	12074.4	12268.8
77.5°	660.7	665.0	669.4	647.8	639.1	673.7	1023.5	3044.5	5324.7	5877.4	6339.5
80°	500.9	509.6	544.1	522.5	488.0	492.3	604.6	1019.2	1528.7	1386.2	1429.4
82.5°	341.2	345.5	418.9	393.0	367.1	332.5	388.7	526.9	595.9	453.4	397.3
85°	241.8	237.5	272.1	250.5	233.2	168.4	233.2	298.0	358.4	224.6	203.0
87.5°	56.1	56.1	112.3	90.7	86.4	69.1	90.7	116.6	155.5	99.3	90.7
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°	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5
2.5°	4180.3	4141.4	4141.4	4132.8	4098.2	4089.6	4059.4	4068.0	4046.4	4024.8
5°	4327.1	4275.3	4275.3	4201.9	4132.8	4124.1	4089.6	4089.6	4055.0	4063.7
7.5°	4530.1	4482.6	4404.8	4340.1	4245.1	4206.2	4141.4	4132.8	4124.1	4106.9
10°	4771.9	4711.4	4633.7	4499.8	4422.1	4348.7	4283.9	4193.2	4171.6	4176.0
12.5°	5100.1	5005.1	4836.7	4720.1	4620.8	4525.8	4430.7	4296.9	4266.6	4279.6
15°	5333.3	5212.4	5044.0	5000.8	4866.9	4750.3	4594.8	4443.7	4391.9	4378.9
17.5°	5523.3	5424.0	5324.7	5259.9	5151.9	5009.4	4793.5	4620.8	4504.2	4491.2
20°	5678.8	5549.2	5527.6	5566.5	5432.6	5337.6	5074.2	4862.6	4707.1	4642.4
22.5°	5773.8	5691.7	5752.2	5786.7	5778.1	5618.3	5346.3	5100.1	4905.8	4845.3
25°	5877.4	5782.4	5998.3	6114.9	6145.2	5881.8	5670.1	5346.3	5156.2	5117.4
27.5°	5929.3	5963.8	6214.3	6460.4	6438.8	6235.9	5950.8	5661.5	5510.4	5441.3
30°	6080.4	6136.5	6516.6	6792.9	6797.3	6598.6	6382.7	6054.5	5886.1	5855.8
32.5°	6352.5	6421.6	6827.5	7121.2	7173.0	7021.8	6805.9	6602.9	6430.2	6361.1
35°	6559.7	6736.8	7194.6	7462.3	7600.5	7509.8	7388.9	7177.3	6995.9	6935.5
37.5°	6857.7	7103.9	7544.4	7907.1	8062.6	8053.9	7963.3	7734.4	7583.2	7531.4
40°	7285.3	7531.4	7933.0	8412.4	8701.7	8688.8	8636.9	8459.9	8235.3	8209.4
42.5°	7738.7	7941.7	8464.2	9012.6	9427.2	9384.0	9245.8	9038.5	8883.1	8848.5
45°	8179.2	8494.4	8978.1	9682.0	9992.9	10100.9	9936.8	9582.7	9405.6	9384.0
47.5°	8731.9	8982.4	9587.0	10217.5	10679.6	10696.8	10416.1	10087.9	9764.1	9833.1
50°	9224.2	9556.8	10170.0	10860.9	11413.7	11215.1	10856.6	10446.4	10213.2	10122.5
52.5°	9751.1	10157.0	10869.6	11573.5	11880.1	11681.5	11098.5	10640.7	10286.6	10247.7
55°	10519.8	10731.4	11664.2	12204.0	12303.3	11884.4	11025.0	10377.3	9919.5	9807.2
57.5°	11301.4	11547.6	12363.8	12830.2	12726.5	11772.1	10550.0	9548.1	8947.9	8788.1
60°	12091.7	12394.0	13080.6	13508.2	12972.7	10999.1	9207.0	7915.7	7216.2	7073.6
62.5°	12972.7	13365.7	13978.9	14130.0	12242.9	9470.4	7306.8	5713.3	5005.1	4767.6
65°	13754.3	14155.9	14911.7	14000.5	10692.5	7065.0	4724.4	3264.8	2742.2	2552.2
67.5°	14397.8	14851.2	15222.6	12389.7	7829.4	4137.1	2461.5	1718.7	1524.4	1455.3
70°	14907.3	15663.1	13927.1	9107.6	4473.9	2016.7	1330.1	1131.4	1105.5	1088.3
72.5°	14462.5	14363.2	10398.9	5255.6	1960.6	1109.8	963.0	932.8	928.5	932.8
75°	11828.3	10550.0	6218.6	2284.5	984.6	803.2	798.9	786.0	807.6	807.6
77.5°	5739.2	5018.1	2599.7	980.3	647.8	630.5	652.1	652.1	652.1	652.1
80°	1330.1	1472.6	928.5	595.9	470.7	470.7	518.2	522.5	500.9	492.3
82.5°	453.4	604.6	509.6	375.7	310.9	349.8	393.0	401.6	332.5	336.8
85°	224.6	354.1	276.4	215.9	159.8	215.9	254.8	267.7	228.9	220.2
87.5°	103.6	155.5	103.6	73.4	56.1	77.7	73.4	60.5	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)