

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: P478836

Luminaire Tested: **IFLD-S-SA6C-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478836  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

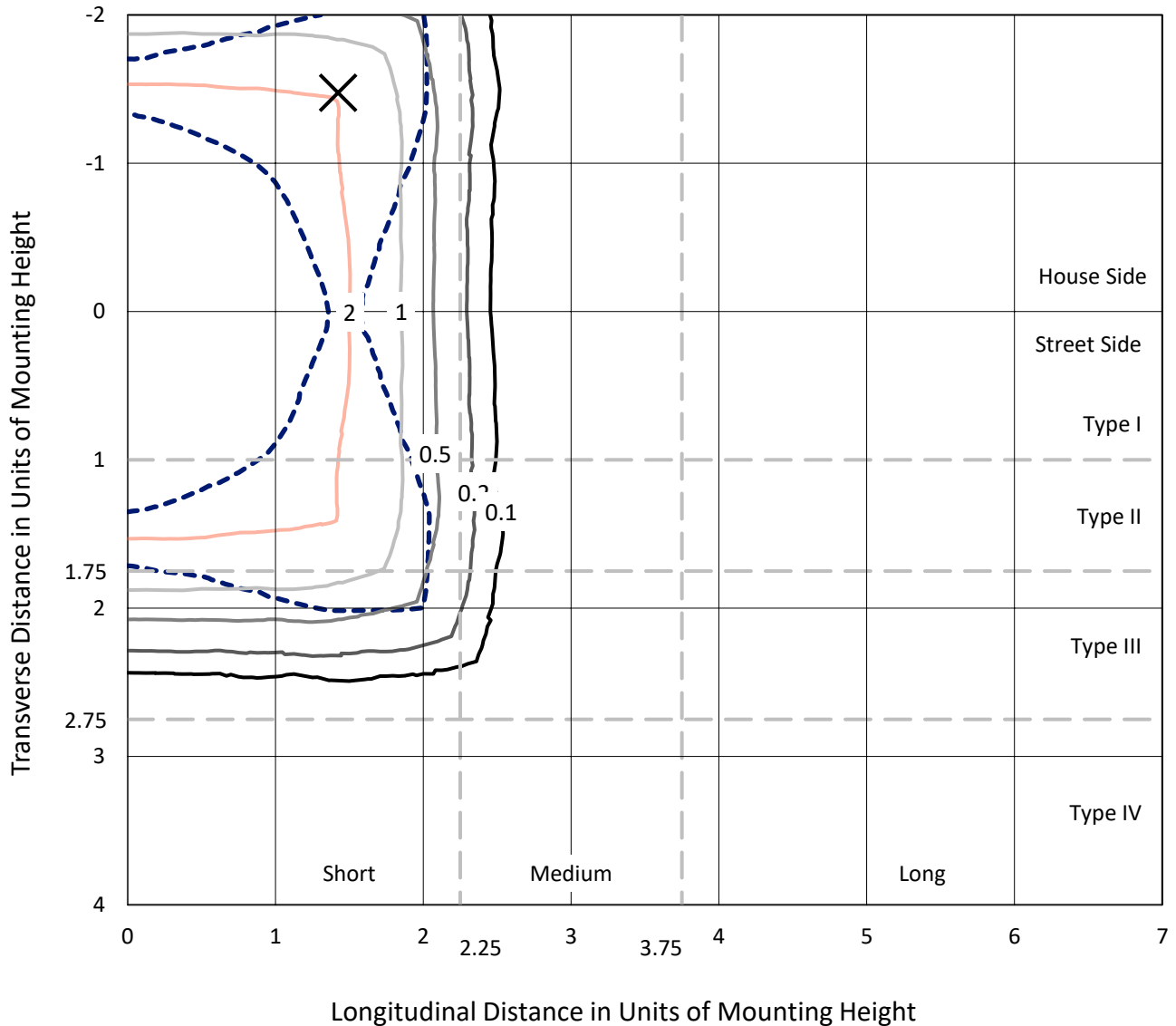
Lumens per Lamp: N/A  
Luminaire Lumens: 34658.5 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5  
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

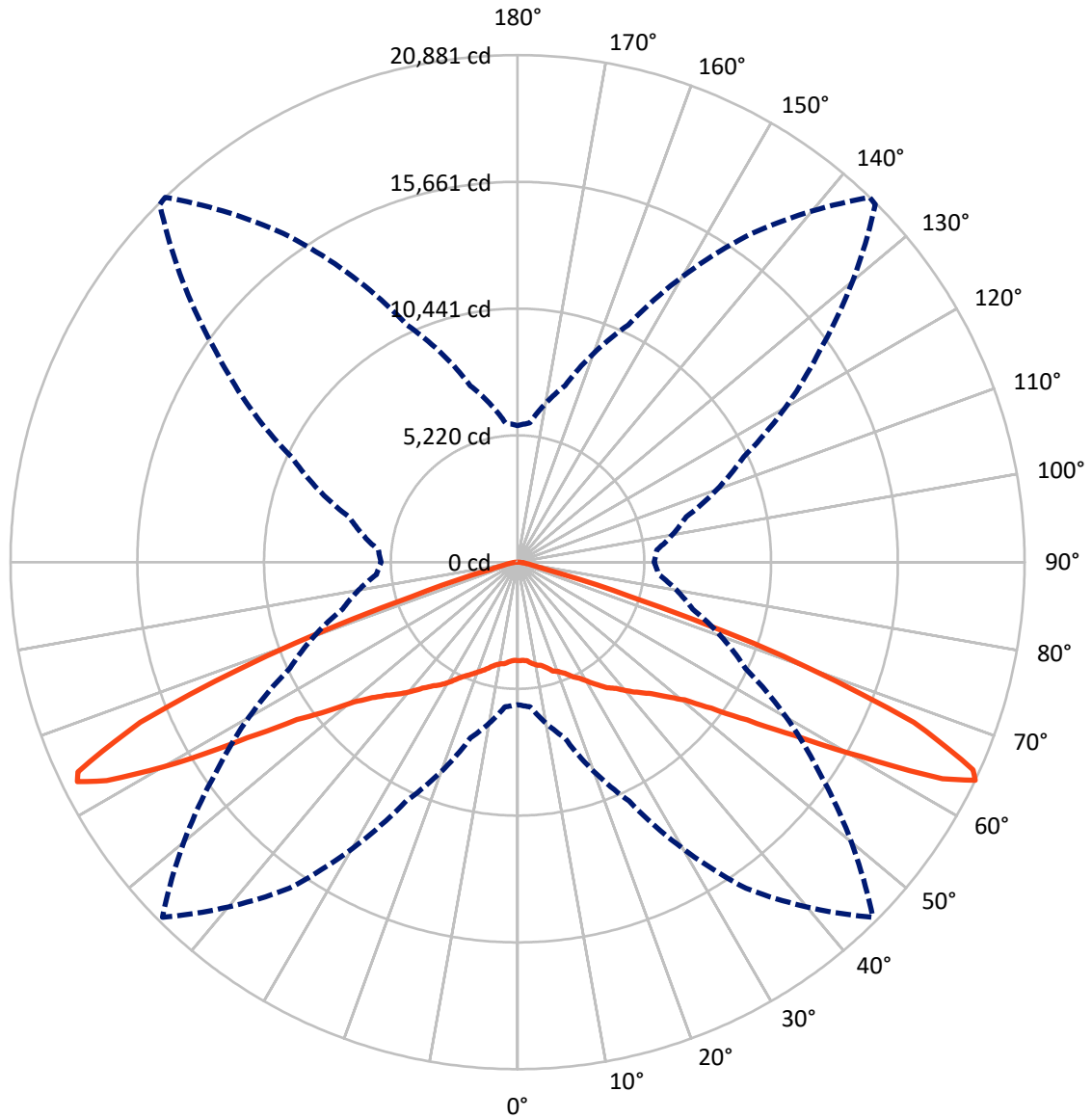
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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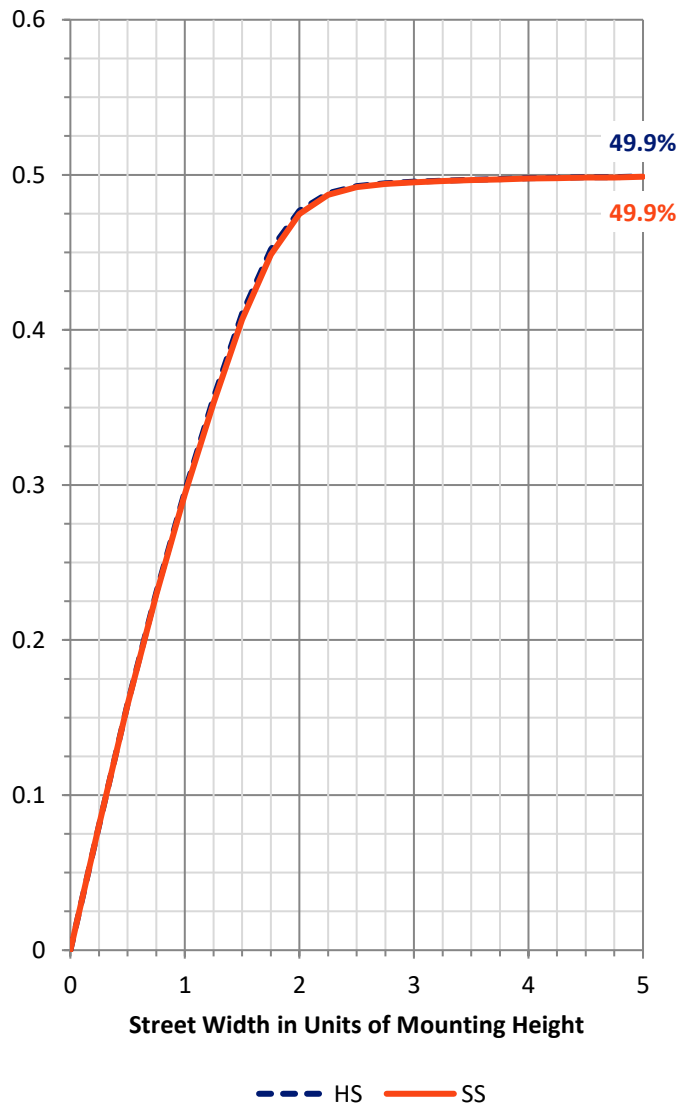
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17345.8	0.0	17345.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17312.7	0.0	17312.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34658.5	0.0	34658.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.7	1.2
10°-20°	1285.0	3.7
20°-30°	2415.1	7.0
30°-40°	3982.9	11.5
40°-50°	6229.1	18.0
50°-60°	10064.6	29.0
60°-70°	9062.6	26.1
70°-80°	1073.5	3.1
80°-90°	146.9	0.4
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°	34658.5	100.0
0°-180°	34658.5	100.0

**Coefficient of Utilization**



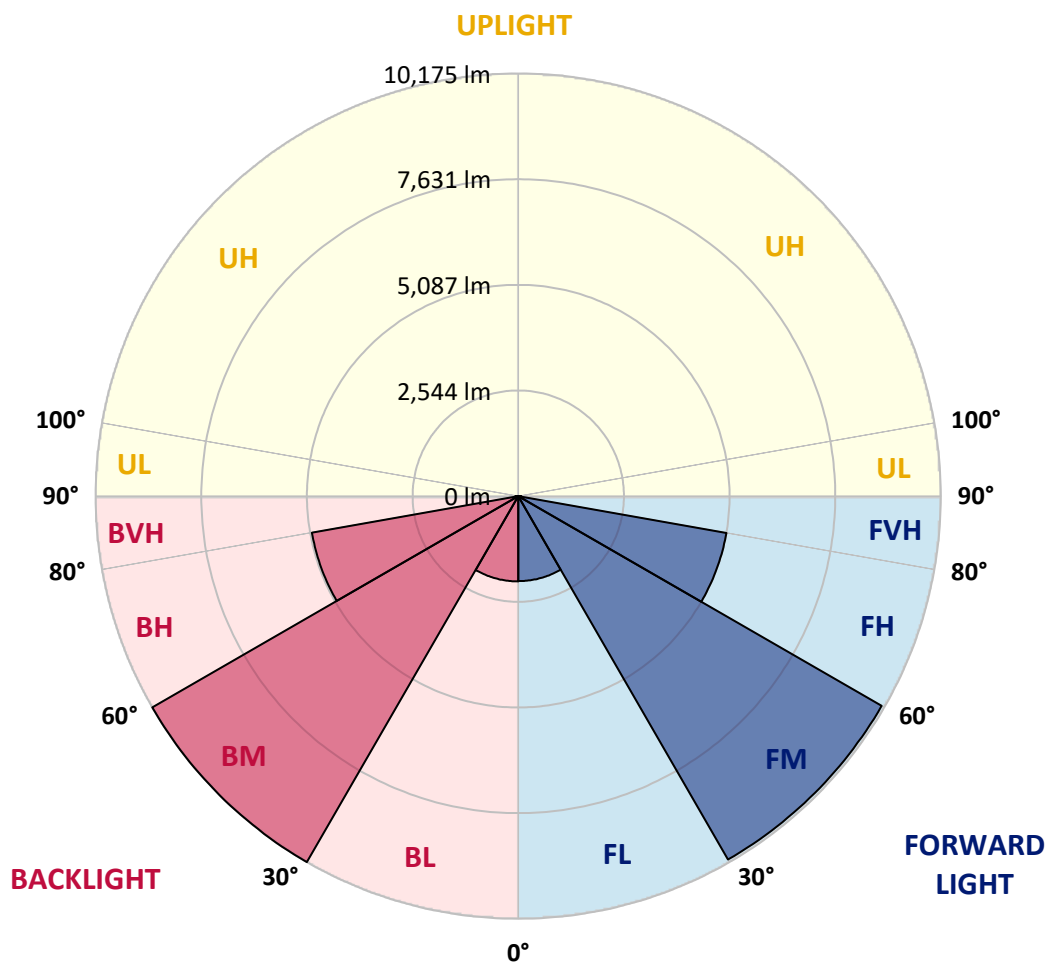
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.5	5.9			
FM (30°-60°)	10101.9	29.1			
FH (60°-80°)	5090.0	14.7			G3/7500
FVH (80°-90°)	75.4	0.2			G1/100
BL (0°-30°)	2053.4	5.9	B3/2500		
BM (30°-60°)	10174.8	29.4	B5		
BH (60°-80°)	5046.1	14.6	B5		G3/7500
BVH (80°-90°)	71.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	4010.1	4018.1	4089.6	4061.8	4085.6	4041.9	4073.7	4141.3	4061.8	4121.4	4141.3
5°	4053.8	4065.7	4065.7	4093.6	4109.5	4101.5	4121.4	4093.6	4169.1	4137.3	4185.0
7.5°	4212.8	4192.9	4161.1	4185.0	4189.0	4208.8	4228.7	4264.5	4252.5	4224.7	4272.4
10°	4240.6	4224.7	4272.4	4276.4	4256.5	4240.6	4260.5	4260.5	4296.3	4304.2	4304.2
12.5°	4288.3	4304.2	4300.2	4332.0	4336.0	4324.1	4355.9	4415.5	4399.6	4411.5	4383.7
15°	4471.1	4451.3	4447.3	4479.1	4530.7	4455.2	4510.9	4506.9	4491.0	4514.8	4451.3
17.5°	4630.1	4566.5	4594.3	4646.0	4626.1	4642.0	4713.6	4650.0	4665.9	4638.1	4618.2
20°	4769.2	4717.5	4721.5	4741.4	4741.4	4789.1	4816.9	4793.1	4777.2	4773.2	4781.1
22.5°	4924.2	4864.6	4868.6	4952.0	4979.8	4963.9	4944.1	4983.8	4991.8	4960.0	4995.7
25°	5039.5	5103.1	5122.9	5162.7	5103.1	5146.8	5130.9	5206.4	5254.1	5190.5	5234.2
27.5°	5341.5	5313.7	5365.4	5361.4	5409.1	5365.4	5393.2	5417.0	5436.9	5440.9	5421.0
30°	5611.8	5623.7	5572.0	5711.1	5599.8	5671.4	5719.1	5731.0	5754.8	5754.8	5695.2
32.5°	5897.9	5874.1	5957.5	5925.7	5905.9	5961.5	5909.8	6072.8	5977.4	6033.0	5965.5
35°	6219.8	6219.8	6251.6	6339.1	6219.8	6184.1	6279.5	6347.0	6347.0	6247.7	6271.5
37.5°	6581.5	6549.7	6589.5	6700.7	6609.3	6490.1	6665.0	6692.8	6672.9	6645.1	6597.4
40°	6835.9	6827.9	6907.4	7054.5	6923.3	6899.5	6931.2	7006.8	7030.6	7058.4	6994.8
42.5°	7265.1	7300.9	7531.4	7495.6	7388.3	7304.8	7296.9	7579.1	7511.5	7440.0	7404.2
45°	7901.0	7869.2	7988.4	7992.4	7853.3	7670.5	7710.2	7968.5	8083.8	7924.8	7984.4
47.5°	8405.7	8421.6	8505.1	8676.0	8354.1	8163.3	8310.3	8727.6	8691.9	8632.3	8687.9
50°	9081.4	9152.9	9415.2	9355.6	9069.4	8835.0	9156.9	9550.3	9594.1	9375.5	9335.7
52.5°	10015.3	10126.6	10269.7	10317.4	10043.2	9959.7	9979.6	10468.4	10361.1	10150.5	10015.3
55°	10834.0	10885.7	11148.0	11541.5	11521.6	11120.2	11350.7	11533.5	11096.4	10663.1	10698.9
57.5°	11183.8	11207.6	11938.9	12725.8	13194.8	13286.2	13023.9	12407.9	11366.6	10532.0	10480.3
60°	10313.4	10539.9	11422.2	13198.8	15340.9	16398.1	14653.4	12507.2	10734.7	9721.2	9645.7
62.5°	8242.8	8254.7	9566.2	12260.8	16676.3	19446.4	15277.4	11573.3	9049.6	7901.0	7598.9
64°	5870.1	5981.4	7487.7	10853.9	16398.1	20686.4	15201.8	10353.2	7459.8	5830.4	5619.7
65°	4212.8	4367.8	5822.4	9423.2	15746.3	20539.4	14975.3	9303.9	6033.0	4451.3	4236.6
67.5°	1550.0	1613.6	2285.2	4713.6	11307.0	17503.0	11867.4	5115.0	2650.9	1887.8	1697.0
70°	719.4	723.3	846.5	1557.9	4944.1	11704.4	5663.4	1919.6	997.6	790.9	735.3
72.5°	528.6	540.5	592.2	719.4	1454.6	4956.0	1860.0	786.9	584.2	516.7	504.7
75°	429.2	437.2	453.1	520.6	671.7	1327.4	755.1	544.5	465.0	417.3	401.4
77.5°	329.9	329.9	365.6	397.4	445.1	620.0	500.8	433.2	377.6	329.9	317.9
80°	238.5	242.4	286.2	310.0	302.0	409.4	361.7	357.7	310.0	258.3	238.5
82.5°	139.1	151.0	206.7	222.6	214.6	242.4	262.3	278.2	242.4	178.8	162.9
85°	79.5	83.5	119.2	123.2	123.2	115.3	151.0	166.9	162.9	111.3	99.4
87.5°	23.8	23.8	31.8	31.8	35.8	39.7	59.6	71.5	79.5	55.6	51.7
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°	136°	145°	155°	165°	175°	180°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	4121.4	4061.8	4065.7	4081.6	4030.0	4049.9	4109.5	4065.7	4053.8	4030.0	4018.1
5°	4101.5	4165.1	4141.3	4149.2	4137.3	4081.6	4073.7	4109.5	4129.3	4093.6	4165.1
7.5°	4240.6	4212.8	4181.0	4192.9	4165.1	4212.8	4244.6	4173.1	4208.8	4189.0	4149.2
10°	4320.1	4268.4	4292.3	4284.3	4264.5	4312.2	4280.4	4272.4	4240.6	4196.9	4260.5
12.5°	4347.9	4407.5	4447.3	4379.7	4391.6	4367.8	4347.9	4347.9	4312.2	4300.2	4312.2
15°	4471.1	4522.8	4506.9	4558.6	4491.0	4514.8	4538.7	4479.1	4510.9	4423.4	4491.0
17.5°	4697.7	4653.9	4709.6	4642.0	4665.9	4713.6	4638.1	4638.1	4661.9	4614.2	4554.6
20°	4840.7	4820.9	4801.0	4805.0	4765.2	4808.9	4785.1	4773.2	4737.4	4753.3	4785.1
22.5°	4975.9	4948.1	4956.0	4967.9	4995.7	4975.9	4963.9	4975.9	4888.4	4967.9	4856.6
25°	5142.8	5218.3	5194.5	5246.1	5166.6	5218.3	5214.3	5138.8	5186.5	5154.7	5130.9
27.5°	5421.0	5381.3	5417.0	5353.4	5409.1	5413.0	5365.4	5492.5	5436.9	5428.9	5413.0
30°	5778.7	5750.9	5727.0	5691.3	5735.0	5699.2	5738.9	5750.9	5699.2	5659.5	5583.9
32.5°	5981.4	6056.9	6084.7	5997.3	6001.3	6021.1	5985.4	5949.6	5981.4	5993.3	5981.4
35°	6267.5	6339.1	6355.0	6287.4	6251.6	6351.0	6279.5	6398.7	6295.4	6299.3	6192.0
37.5°	6601.4	6621.2	6756.4	6680.9	6649.1	6601.4	6732.5	6716.6	6740.5	6549.7	6645.1
40°	6978.9	7050.5	7126.0	6935.2	6931.2	6975.0	6967.0	7058.4	7014.7	6986.9	6919.3
42.5°	7392.3	7543.3	7555.2	7428.0	7348.6	7340.6	7380.3	7583.0	7587.0	7404.2	7324.7
45°	7940.7	8107.6	8063.9	7817.5	7730.1	7718.2	7912.9	8000.3	8075.9	8004.3	7936.8
47.5°	8624.3	8735.6	8703.8	8477.3	8195.1	8274.6	8465.3	8739.6	8660.1	8564.7	8485.2
50°	9355.6	9486.7	9419.2	9192.6	8922.4	8922.4	9156.9	9506.6	9482.8	9296.0	9224.4
52.5°	10166.4	10357.1	10512.1	10190.2	9963.7	9999.4	10369.0	10496.2	10436.6	10305.5	10245.8
55°	10770.5	11136.1	11454.0	11469.9	11481.9	11477.9	11573.3	11700.5	11275.2	11064.6	10849.9
57.5°	10623.4	11314.9	12403.9	13143.1	13361.7	13477.0	13445.2	12857.0	11851.5	11159.9	11231.5
60°	9574.2	10702.9	12459.6	14832.2	16422.0	16263.0	15682.7	13357.8	11533.5	10365.1	10218.0
62.5°	7638.7	8997.9	11525.6	15309.2	19688.9	19641.2	16604.8	12201.2	9609.9	8131.5	8040.1
64°	5754.8	7185.6	10281.6	15185.9	20833.5	20881.2	16370.3	10778.4	7519.4	5754.8	5615.7
65°	4403.6	5731.0	9061.5	14931.6	20587.1	20614.9	15718.5	9307.9	5715.1	4085.6	3934.6
67.5°	1752.7	2440.2	4916.3	11322.9	17677.9	17602.3	11215.6	4502.9	2185.9	1422.8	1395.0
70°	747.2	930.0	1724.9	5365.4	11835.6	11617.0	4828.8	1462.6	810.8	679.6	675.6
72.5°	512.7	568.3	739.2	1657.3	4920.2	4805.0	1375.1	679.6	552.4	508.7	508.7
75°	413.3	453.1	536.5	695.5	1303.6	1255.9	647.8	500.8	441.2	409.4	405.4
77.5°	321.9	361.7	421.3	480.9	596.2	592.2	433.2	377.6	341.8	317.9	310.0
80°	254.4	294.1	333.8	341.8	389.5	381.5	294.1	298.1	278.2	230.5	226.5
82.5°	174.9	238.5	266.3	242.4	230.5	230.5	210.6	210.6	194.7	143.1	131.2
85°	107.3	159.0	166.9	143.1	107.3	107.3	115.3	111.3	103.3	75.5	71.5
87.5°	55.6	75.5	67.6	55.6	35.8	35.8	31.8	23.8	23.8	19.9	19.9
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)