

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: P478838

Luminaire Tested: **IFLD-S-SA6E-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478838  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-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**

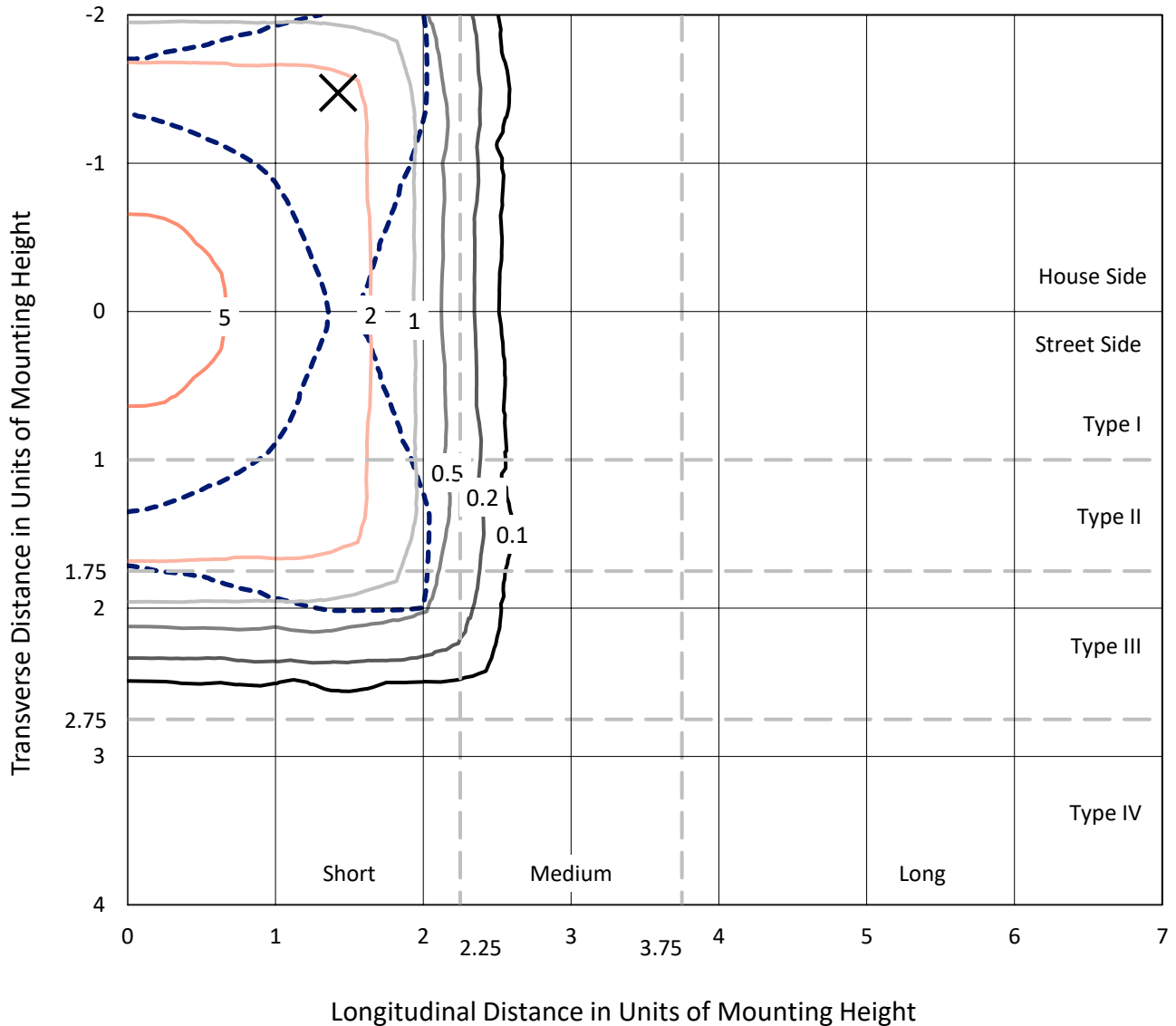
Lumens per Lamp: N/A  
Luminaire Lumens: 44134.9 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

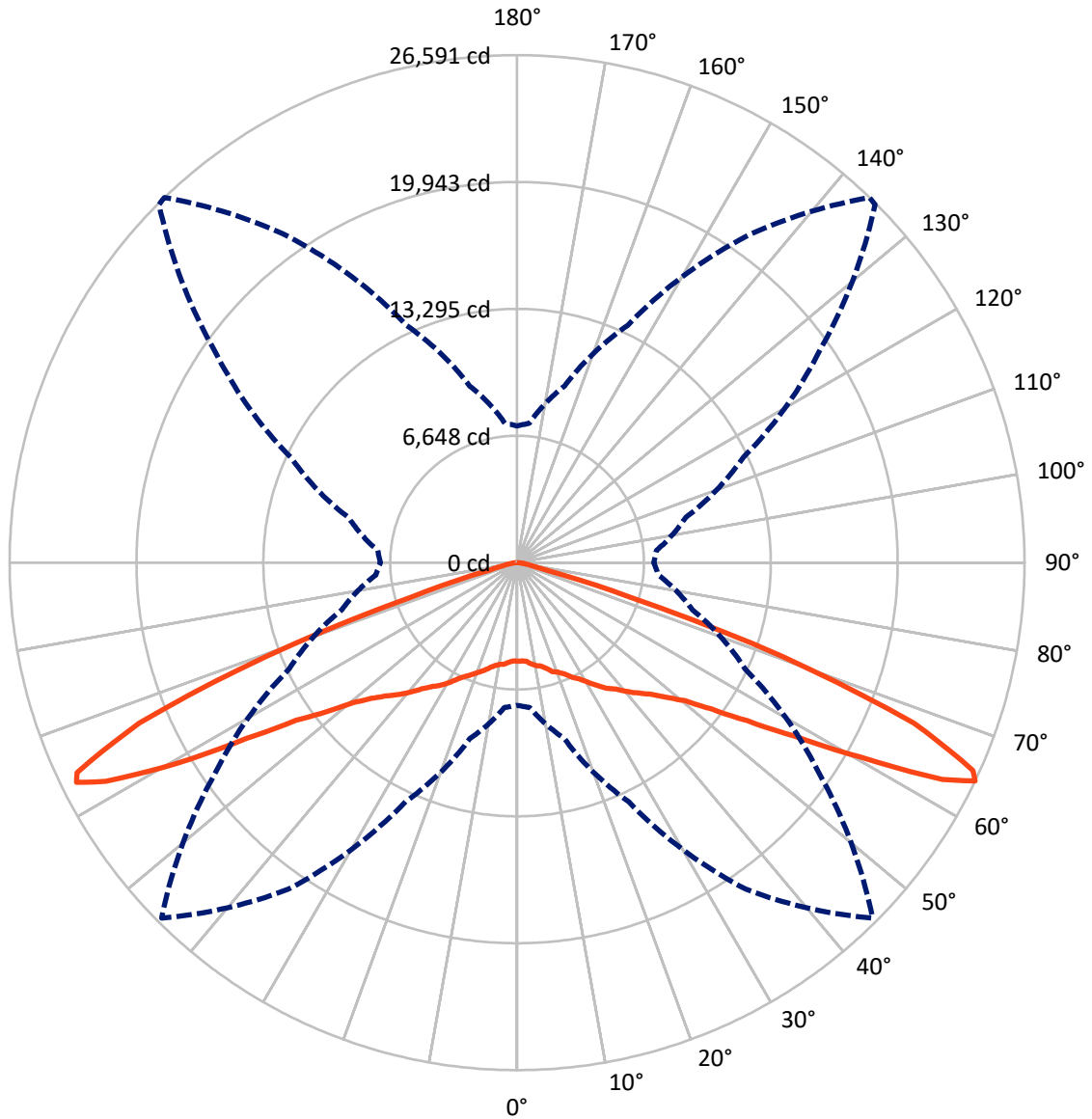
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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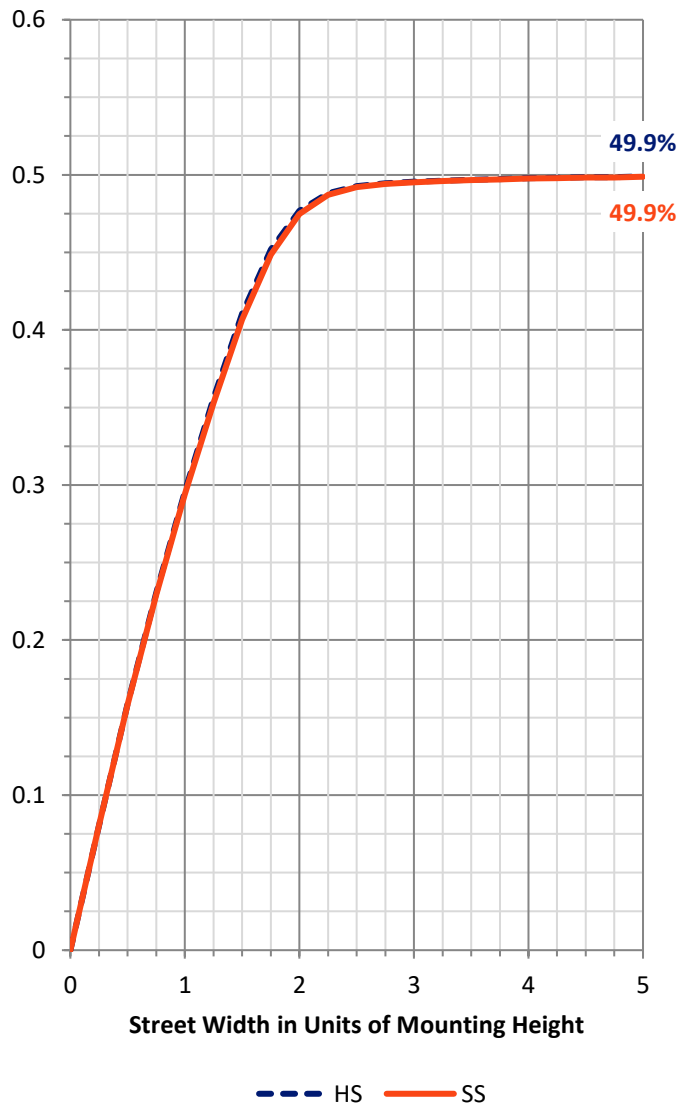
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22088.5	0.0	22088.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22046.4	0.0	22046.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44134.9	0.0	44134.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.7	1.2
10°-20°	1636.4	3.7
20°-30°	3075.5	7.0
30°-40°	5072.0	11.5
40°-50°	7932.2	18.0
50°-60°	12816.5	29.0
60°-70°	11540.4	26.1
70°-80°	1367.0	3.1
80°-90°	187.1	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°	44134.9	100.0
0°-180°	44134.9	100.0

**Coefficient of Utilization**



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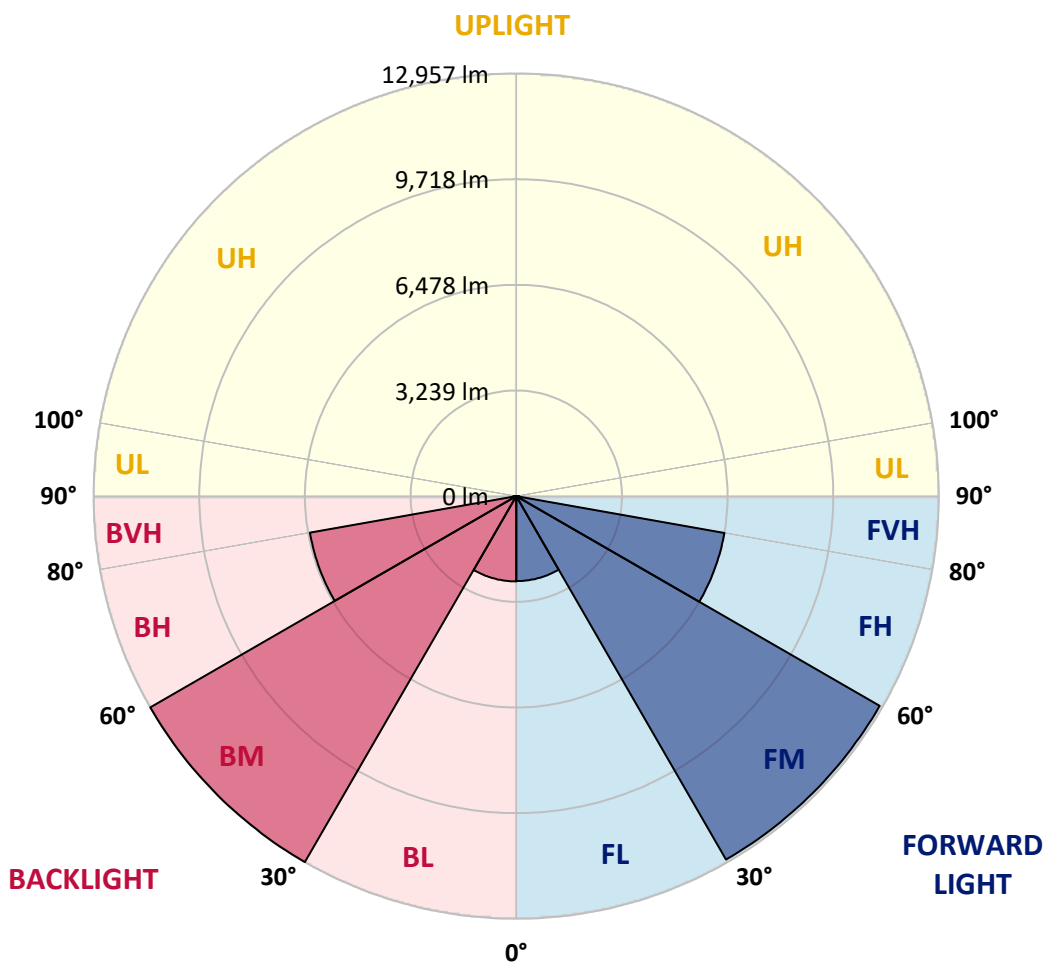
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.8	5.9			
FM (30°-60°)	12863.9	29.1			
FH (60°-80°)	6481.7	14.7			G3/7500
FVH (80°-90°)	96.0	0.2			G1/100
BL (0°-30°)	2614.8	5.9	B4/5000		
BM (30°-60°)	12956.8	29.4	B5		
BH (60°-80°)	6425.8	14.6	B5		G3/7500
BVH (80°-90°)	91.1	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°	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3
2.5°	5106.6	5116.7	5207.8	5172.3	5202.7	5147.0	5187.5	5273.6	5172.3	5248.3	5273.6
5°	5162.2	5177.4	5177.4	5212.8	5233.1	5223.0	5248.3	5212.8	5309.0	5268.5	5329.2
7.5°	5364.7	5339.4	5298.9	5329.2	5334.3	5359.6	5384.9	5430.5	5415.3	5379.9	5440.6
10°	5400.1	5379.9	5440.6	5445.6	5420.3	5400.1	5425.4	5425.4	5470.9	5481.1	5481.1
12.5°	5460.8	5481.1	5476.0	5516.5	5521.6	5506.4	5546.9	5622.8	5602.5	5617.7	5582.3
15°	5693.6	5668.3	5663.3	5703.8	5769.5	5673.4	5744.2	5739.2	5718.9	5749.3	5668.3
17.5°	5896.1	5815.1	5850.5	5916.3	5891.0	5911.3	6002.4	5921.4	5941.6	5906.2	5880.9
20°	6073.2	6007.4	6012.5	6037.8	6037.8	6098.5	6133.9	6103.6	6083.3	6078.3	6088.4
22.5°	6270.6	6194.7	6199.7	6306.0	6341.4	6321.2	6295.9	6346.5	6356.6	6316.1	6361.7
25°	6417.4	6498.3	6523.6	6574.2	6498.3	6554.0	6533.8	6629.9	6690.7	6609.7	6665.3
27.5°	6802.0	6766.6	6832.4	6827.3	6888.0	6832.4	6867.8	6898.2	6923.5	6928.5	6903.2
30°	7146.1	7161.3	7095.5	7272.7	7131.0	7222.1	7282.8	7298.0	7328.3	7328.3	7252.4
32.5°	7510.5	7480.2	7586.4	7546.0	7520.7	7591.5	7525.7	7733.2	7611.8	7682.6	7596.6
35°	7920.5	7920.5	7961.0	8072.3	7920.5	7874.9	7996.4	8082.4	8082.4	7955.9	7986.3
37.5°	8381.0	8340.5	8391.1	8532.9	8416.5	8264.6	8487.3	8522.7	8497.4	8462.0	8401.3
40°	8704.9	8694.8	8796.0	8983.3	8816.3	8785.9	8826.4	8922.6	8952.9	8988.3	8907.4
42.5°	9251.5	9297.1	9590.6	9545.1	9408.4	9302.1	9292.0	9651.3	9565.3	9474.2	9428.7
45°	10061.3	10020.8	10172.6	10177.7	10000.5	9767.7	9818.4	10147.3	10294.1	10091.6	10167.6
47.5°	10704.0	10724.3	10830.6	11048.2	10638.2	10395.3	10582.6	11114.0	11068.4	10992.5	11063.4
50°	11564.4	11655.5	11989.5	11913.6	11549.2	11250.6	11660.6	12161.6	12217.3	11938.9	11888.3
52.5°	12753.7	12895.4	13077.6	13138.4	12789.2	12682.9	12708.2	13330.7	13194.0	12925.8	12753.7
55°	13796.3	13862.1	14196.1	14697.2	14671.9	14160.7	14454.2	14687.0	14130.3	13578.7	13624.2
57.5°	14241.7	14272.0	15203.3	16205.3	16802.5	16918.9	16584.9	15800.5	14474.5	13411.7	13345.9
60°	13133.3	13421.8	14545.3	16807.6	19535.5	20881.7	18659.9	15927.0	13669.8	12379.2	12283.1
62.5°	10496.5	10511.7	12181.8	15613.2	21236.0	24763.5	19454.5	14737.7	11523.9	10061.3	9676.6
64°	7475.1	7616.8	9534.9	13821.6	20881.7	26342.5	19358.4	13183.9	9499.5	7424.5	7156.3
65°	5364.7	5562.0	7414.4	11999.6	20051.7	26155.3	19069.9	11847.8	7682.6	5668.3	5395.0
67.5°	1973.8	2054.8	2910.1	6002.4	14398.6	22288.7	15112.2	6513.5	3375.7	2404.0	2161.1
70°	916.0	921.1	1078.0	1983.9	6295.9	14904.7	7211.9	2444.5	1270.3	1007.1	936.3
72.5°	673.1	688.3	754.1	916.0	1852.3	6311.1	2368.6	1002.1	744.0	657.9	642.7
75°	546.6	556.7	577.0	663.0	855.3	1690.4	961.6	693.4	592.1	531.4	511.2
77.5°	420.1	420.1	465.6	506.1	566.8	789.5	637.7	551.6	480.8	420.1	404.9
80°	303.7	308.7	364.4	394.8	384.6	521.3	460.6	455.5	394.8	329.0	303.7
82.5°	177.1	192.3	263.2	283.4	273.3	308.7	334.0	354.3	308.7	227.7	207.5
85°	101.2	106.3	151.8	156.9	156.9	146.8	192.3	212.6	207.5	141.7	126.5
87.5°	30.4	30.4	40.5	40.5	45.5	50.6	75.9	91.1	101.2	70.9	65.8
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°	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3	5167.3
2.5°	5248.3	5172.3	5177.4	5197.7	5131.9	5157.2	5233.1	5177.4	5162.2	5131.9	5116.7
5°	5223.0	5303.9	5273.6	5283.7	5268.5	5197.7	5187.5	5233.1	5258.4	5212.8	5303.9
7.5°	5400.1	5364.7	5324.2	5339.4	5303.9	5364.7	5405.2	5314.1	5359.6	5334.3	5283.7
10°	5501.3	5435.5	5465.9	5455.8	5430.5	5491.2	5450.7	5440.6	5400.1	5344.4	5425.4
12.5°	5536.7	5612.7	5663.3	5577.2	5592.4	5562.0	5536.7	5536.7	5491.2	5476.0	5491.2
15°	5693.6	5759.4	5739.2	5805.0	5718.9	5749.3	5779.7	5703.8	5744.2	5632.9	5718.9
17.5°	5982.1	5926.4	5997.3	5911.3	5941.6	6002.4	5906.2	5906.2	5936.6	5875.8	5799.9
20°	6164.3	6139.0	6113.7	6118.8	6068.1	6123.8	6093.5	6078.3	6032.7	6053.0	6093.5
22.5°	6336.4	6301.0	6311.1	6326.3	6361.7	6336.4	6321.2	6336.4	6225.0	6326.3	6184.6
25°	6548.9	6645.1	6614.7	6680.5	6579.3	6645.1	6640.0	6543.9	6604.6	6564.1	6533.8
27.5°	6903.2	6852.6	6898.2	6817.2	6888.0	6893.1	6832.4	6994.3	6923.5	6913.3	6893.1
30°	7358.7	7323.3	7292.9	7247.4	7303.0	7257.5	7308.1	7323.3	7257.5	7206.9	7110.7
32.5°	7616.8	7713.0	7748.4	7637.1	7642.1	7667.4	7621.9	7576.3	7616.8	7632.0	7616.8
35°	7981.2	8072.3	8092.6	8006.5	7961.0	8087.5	7996.4	8148.2	8016.6	8021.7	7885.0
37.5°	8406.3	8431.6	8603.7	8507.6	8467.1	8406.3	8573.3	8553.1	8583.5	8340.5	8462.0
40°	8887.1	8978.2	9074.4	8831.5	8826.4	8882.1	8871.9	8988.3	8932.7	8897.3	8811.2
42.5°	9413.5	9605.8	9621.0	9459.0	9357.8	9347.7	9398.3	9656.4	9661.5	9428.7	9327.4
45°	10111.9	10324.5	10268.8	9955.0	9843.7	9828.5	10076.5	10187.8	10284.0	10192.9	10106.8
47.5°	10982.4	11124.1	11083.6	10795.1	10435.8	10537.0	10779.9	11129.2	11027.9	10906.5	10805.3
50°	11913.6	12080.6	11994.6	11706.1	11362.0	11362.0	11660.6	12105.9	12075.6	11837.7	11746.6
52.5°	12946.1	13189.0	13386.4	12976.4	12687.9	12733.5	13204.2	13366.1	13290.2	13123.2	13047.3
55°	13715.3	14180.9	14585.8	14606.1	14621.2	14616.2	14737.7	14899.6	14358.1	14089.8	13816.5
57.5°	13528.1	14408.7	15795.4	16736.8	17015.1	17161.9	17121.4	16372.4	15091.9	14211.3	14302.4
60°	12192.0	13629.3	15866.3	18887.7	20912.1	20709.6	19970.7	17010.0	14687.0	13199.1	13011.8
62.5°	9727.3	11458.1	14676.9	19495.0	25072.2	25011.5	21144.9	15537.3	12237.5	10354.8	10238.4
64°	7328.3	9150.3	13092.8	19338.1	26529.8	26590.5	20846.3	13725.5	9575.4	7328.3	7151.2
65°	5607.6	7298.0	11539.1	19014.2	26216.0	26251.4	20016.3	11852.9	7277.7	5202.7	5010.4
67.5°	2231.9	3107.5	6260.5	14418.8	22511.4	22415.2	14282.2	5734.1	2783.6	1811.8	1776.4
70°	951.5	1184.3	2196.5	6832.4	15071.7	14793.3	6149.1	1862.5	1032.4	865.4	860.4
72.5°	652.9	723.7	941.3	2110.4	6265.5	6118.8	1751.1	865.4	703.5	647.8	647.8
75°	526.3	577.0	683.2	885.7	1660.0	1599.3	824.9	637.7	561.8	521.3	516.2
77.5°	409.9	460.6	536.5	612.4	759.2	754.1	551.6	480.8	435.2	404.9	394.8
80°	323.9	374.5	425.1	435.2	496.0	485.9	374.5	379.6	354.3	293.5	288.5
82.5°	222.7	303.7	339.1	308.7	293.5	293.5	268.2	268.2	248.0	182.2	167.0
85°	136.6	202.4	212.6	182.2	136.6	136.6	146.8	141.7	131.6	96.2	91.1
87.5°	70.9	96.2	86.0	70.9	45.5	45.5	40.5	30.4	30.4	25.3	25.3
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)