

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: P484150

Luminaire Tested: **IFLD-L-SA7C-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484150  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

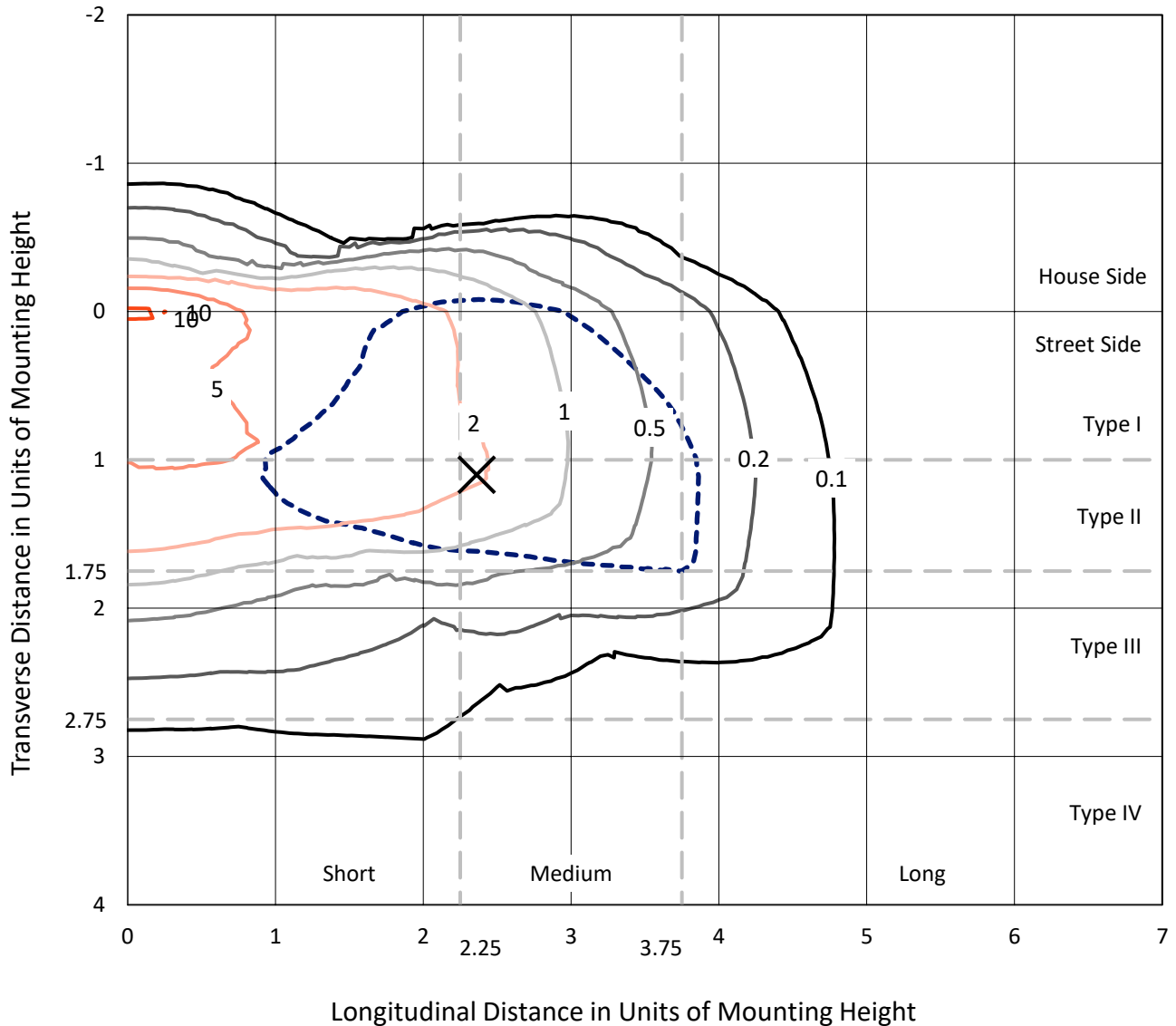
Lumens per Lamp: N/A  
Luminaire Lumens: 26821.3 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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

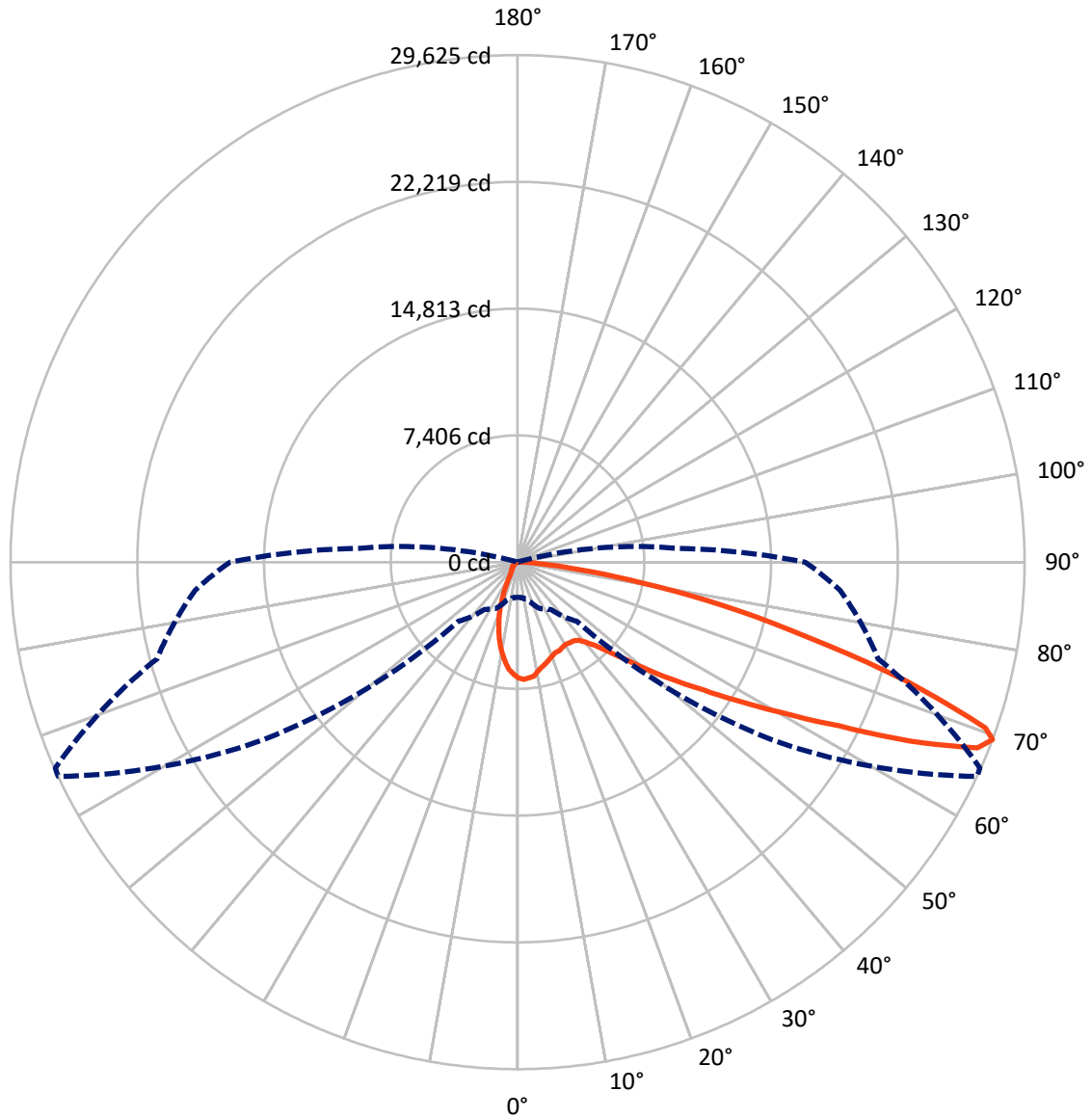
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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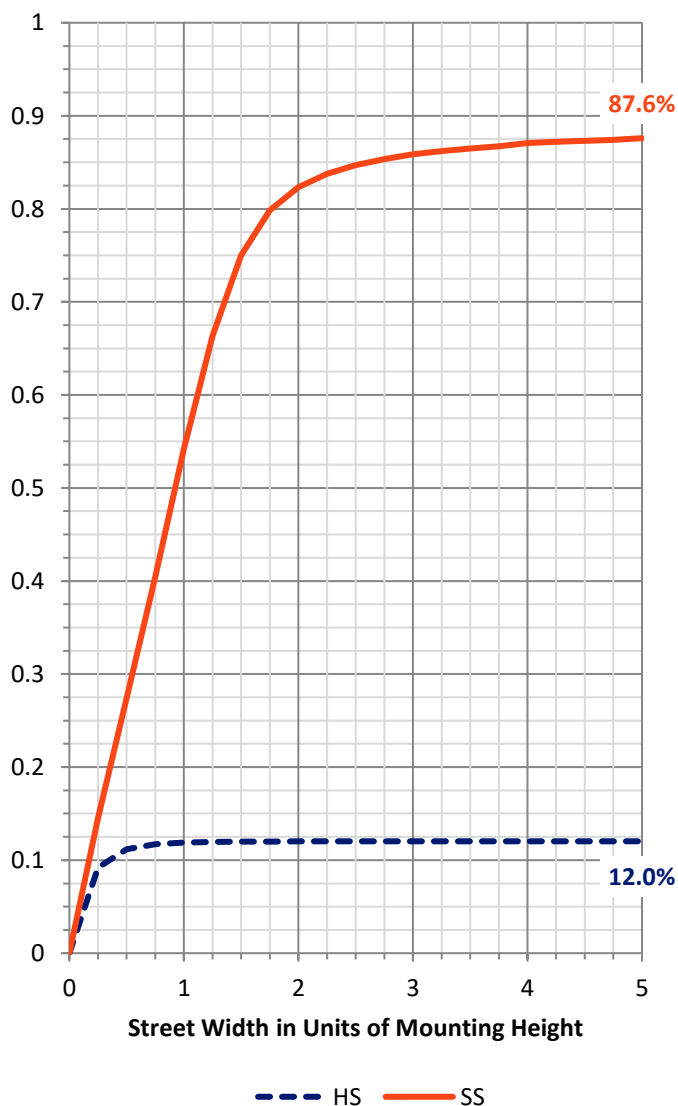
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3253.6	0.0	3253.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	23567.7	0.0	23567.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	26821.3	0.0	26821.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.4	2.1
10°-20°	1210.8	4.5
20°-30°	1685.7	6.3
30°-40°	2388.8	8.9
40°-50°	3764.6	14.0
50°-60°	6108.6	22.8
60°-70°	6822.1	25.4
70°-80°	3841.6	14.3
80°-90°	445.8	1.7
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°	26821.3	100.0
0°-180°	26821.3	100.0

**Coefficient of Utilization**

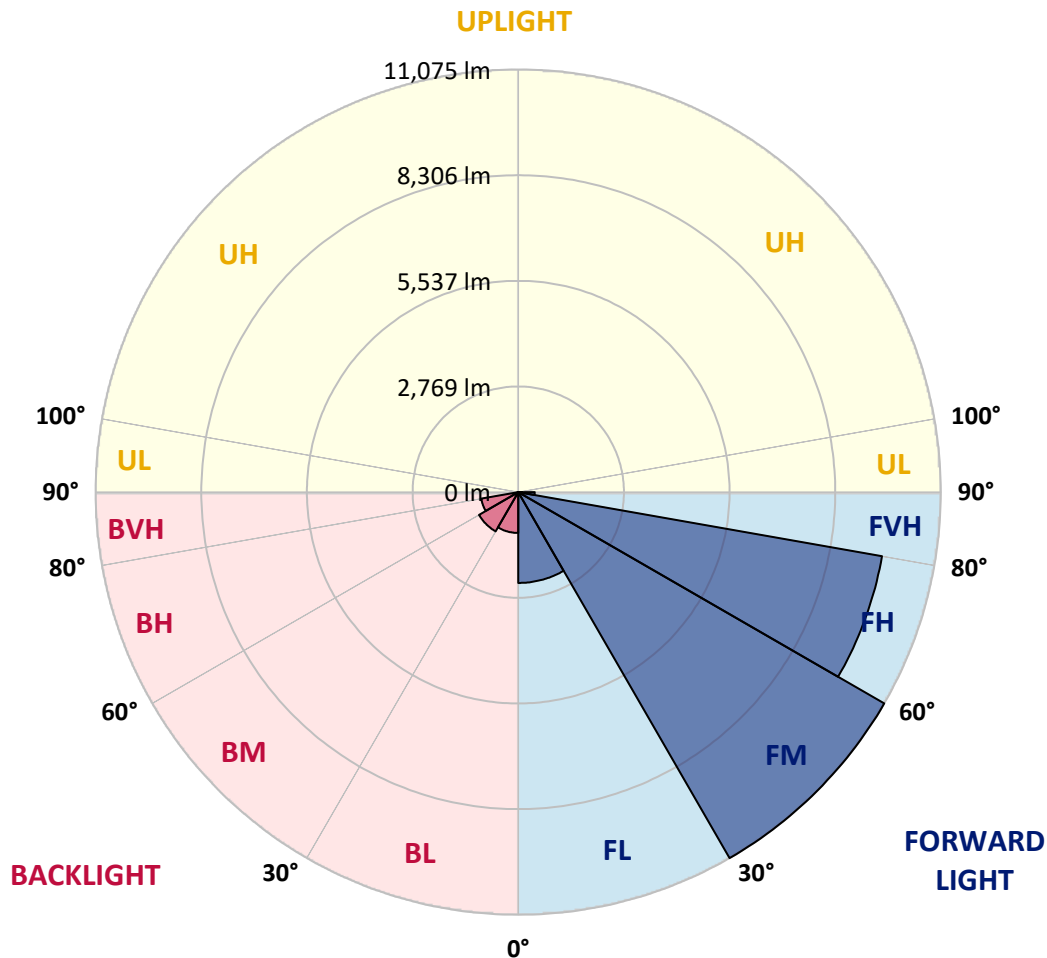


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.1	8.9			
FM (30°-60°)	11074.8	41.3			
FH (60°-80°)	9679.3	36.1			G4/12000
FVH (80°-90°)	433.5	1.6			G3/500
BL (0°-30°)	1069.7	4.0	B3/2500		
BM (30°-60°)	1187.2	4.4	B2/2500		
BH (60°-80°)	984.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.0			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
2.5°	6512.6	6563.3	6577.8	6628.4	6653.7	6762.3	6823.8	6860.0	6841.9	6881.7	6885.3
5°	6049.5	6020.6	6096.5	6150.8	6266.6	6454.7	6646.5	6794.8	6863.6	6928.7	6917.9
7.5°	5553.8	5539.3	5615.3	5738.3	5843.3	6071.2	6378.8	6744.2	6729.7	6888.9	6935.9
10°	5213.7	5228.2	5253.5	5376.5	5532.1	5763.7	6147.2	6487.3	6563.3	6899.8	6993.8
12.5°	4902.6	4927.9	4974.9	5101.6	5282.5	5521.3	5893.9	6291.9	6407.7	6838.3	7026.4
15°	4801.3	4743.4	4837.4	4931.5	5119.6	5333.1	5647.9	6143.6	6194.2	6765.9	7080.7
17.5°	4718.0	4681.9	4725.3	4801.3	5000.2	5173.9	5470.6	5984.4	6078.5	6736.9	7073.4
20°	4743.4	4710.8	4728.9	4786.8	4877.2	5040.0	5315.0	5832.4	5933.7	6603.1	7062.6
22.5°	4815.7	4841.1	4808.5	4823.0	4851.9	4935.1	5231.8	5723.9	5810.7	6577.8	7124.1
25°	5141.4	5097.9	5054.5	5036.4	4866.4	4902.6	5206.5	5716.6	5778.1	6487.3	7073.4
27.5°	5481.5	5445.3	5427.2	5322.3	5090.7	4982.2	5210.1	5615.3	5698.5	6451.1	7011.9
30°	5893.9	5941.0	5868.6	5742.0	5420.0	5152.2	5249.9	5564.7	5680.5	6313.6	6972.1
32.5°	6328.1	6353.4	6389.6	6295.5	5879.5	5409.1	5369.3	5611.7	5618.9	6313.6	6881.7
35°	6820.2	6784.0	6878.1	6885.3	6519.9	5865.0	5597.2	5644.3	5720.3	6284.7	6849.1
37.5°	7243.5	7305.0	7413.5	7587.2	7210.9	6509.0	5951.8	5796.2	5828.8	6418.6	6874.4
40°	7706.6	7768.1	8014.1	8187.8	7974.3	7232.6	6490.9	6150.8	6176.1	6617.6	7004.7
42.5°	8216.8	8336.2	8629.2	8933.2	8875.3	8151.6	7185.6	6671.8	6661.0	7113.2	7272.4
45°	8907.8	9067.0	9385.4	9736.4	9787.0	9204.5	8111.8	7449.7	7485.9	7760.9	7826.0
47.5°	9870.2	9863.0	10174.2	10564.9	10858.0	10297.2	9219.0	8495.4	8491.7	8784.8	8647.3
50°	10800.1	10803.7	10886.9	11339.2	12099.0	11813.2	10590.3	9884.7	9844.9	9989.6	9768.9
52.5°	11230.7	11180.0	11118.5	11664.8	13054.2	13723.5	12327.0	11458.6	11426.0	11339.2	11281.3
55°	10778.4	10796.5	10792.9	11360.9	13557.1	15738.8	14555.7	13191.7	13137.4	12866.1	12945.7
57.5°	9327.5	9269.6	9396.3	10282.7	12981.8	17113.7	17743.3	15377.0	15235.9	14335.0	14154.1
60°	6943.2	6961.3	7066.2	8111.8	11552.7	17403.2	20793.4	17942.3	17334.4	15369.8	15120.1
62.5°	4848.3	4812.1	4851.9	5438.0	8260.2	16245.4	22855.7	21061.1	20475.0	16545.7	16401.0
65°	3469.8	3422.7	3581.9	3940.1	4960.4	12421.0	23148.8	25214.7	24690.1	18423.5	18076.2
67.5°	2496.5	2489.3	2673.8	3325.1	3524.1	7153.0	20977.9	28977.6	28659.2	20652.3	19096.5
69°	2065.9	2069.6	2246.9	2977.7	3364.9	4884.5	18050.8	29625.2	29567.3	21802.8	18904.7
70°	1801.8	1816.3	2022.5	2771.5	3299.7	4016.1	15561.6	28988.4	28930.5	22027.1	18271.5
72.5°	1110.8	1121.6	1393.0	2221.5	3136.9	3278.0	9305.8	23716.8	23915.8	20999.6	15742.5
75°	531.9	535.5	730.9	1606.4	3024.8	3108.0	4985.8	17500.9	17920.6	16954.5	12301.6
77.5°	282.2	282.2	351.0	853.9	2449.5	2923.4	2959.6	12345.0	12692.4	10720.5	6993.8
80°	141.1	144.7	213.5	445.0	1519.6	2865.6	2312.0	7362.9	7551.0	4374.3	2178.1
82.5°	54.3	57.9	101.3	267.7	788.8	2420.5	2029.8	3621.7	3574.7	1023.9	531.9
85°	7.2	7.2	36.2	159.2	336.5	1067.3	1675.2	1512.4	1461.7	224.3	256.9
87.5°	0.0	0.0	7.2	47.0	101.3	311.2	647.6	416.1	463.1	61.5	126.6
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°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
2.5°	6867.2	6791.2	6675.4	6563.3	6443.9	6299.2	6140.0	6082.1	5980.8	5973.5	6031.4
5°	6860.0	6736.9	6534.3	6295.5	5955.4	5698.5	5420.0	5217.3	5061.8	4960.4	4985.8
7.5°	6896.1	6747.8	6396.8	5883.1	5445.3	4935.1	4504.6	4207.9	3936.5	3802.6	3788.2
10°	6838.3	6639.3	6125.5	5405.5	4761.5	4048.7	3419.1	3021.1	2615.9	2467.6	2474.8
12.5°	6870.8	6592.2	5832.4	4913.4	4027.0	3100.7	2348.2	1805.4	1425.5	1302.5	1288.1
15°	6892.5	6490.9	5550.2	4323.7	3212.9	2113.0	1360.4	1023.9	904.5	882.8	879.2
17.5°	6809.3	6367.9	5152.2	3741.1	2380.7	1284.4	904.5	835.8	814.1	799.6	792.4
20°	6805.7	6295.5	4808.5	3144.2	1588.4	875.6	781.5	756.2	723.6	712.8	712.8
22.5°	6744.2	6143.6	4396.0	2489.3	1013.1	752.6	701.9	662.1	625.9	611.5	607.8
25°	6726.1	5966.3	4008.9	1870.6	770.7	673.0	622.3	564.4	521.0	499.3	488.4
27.5°	6675.4	5814.3	3618.1	1317.0	673.0	600.6	535.5	474.0	423.3	390.8	387.1
30°	6494.5	5655.1	3184.0	911.8	611.5	531.9	459.5	387.1	336.5	314.8	307.5
32.5°	6418.6	5506.8	2710.0	701.9	557.2	470.4	387.1	322.0	282.2	260.5	256.9
35°	6328.1	5289.7	2250.5	611.5	506.5	408.8	325.6	271.4	238.8	220.7	220.7
37.5°	6339.0	5116.0	1819.9	553.6	452.3	351.0	278.6	231.6	202.6	184.5	184.5
40°	6306.4	4978.5	1414.7	502.9	401.6	300.3	235.2	195.4	170.1	152.0	148.3
42.5°	6454.7	4942.4	1067.3	459.5	351.0	256.9	202.6	166.4	141.1	119.4	119.4
45°	6704.4	5000.2	832.2	419.7	300.3	220.7	173.7	137.5	112.2	97.7	94.1
47.5°	7370.1	5228.2	651.3	387.1	256.9	191.8	144.7	112.2	90.5	76.0	72.4
50°	8336.2	5738.3	553.6	340.1	217.1	162.8	119.4	86.8	72.4	57.9	54.3
52.5°	9711.0	6595.8	502.9	300.3	180.9	133.9	94.1	68.7	54.3	43.4	39.8
55°	11209.0	7666.8	455.9	253.3	152.0	108.5	76.0	54.3	39.8	28.9	25.3
57.5°	12377.6	8593.0	416.1	209.9	123.0	86.8	57.9	39.8	28.9	18.1	14.5
60°	13654.8	9244.3	365.4	166.4	101.3	65.1	43.4	28.9	21.7	10.9	10.9
62.5°	14971.8	10007.7	300.3	130.3	79.6	50.7	32.6	21.7	14.5	3.6	3.6
65°	16802.6	10604.7	231.6	101.3	61.5	36.2	25.3	18.1	7.2	0.0	0.0
67.5°	17320.0	10311.7	170.1	79.6	43.4	25.3	18.1	10.9	3.6	0.0	0.0
69°	16802.6	9287.7	148.3	68.7	36.2	21.7	14.5	7.2	3.6	0.0	0.0
70°	15858.2	8491.7	130.3	57.9	32.6	21.7	10.9	7.2	3.6	0.0	0.0
72.5°	13264.0	6512.6	101.3	43.4	25.3	18.1	10.9	7.2	0.0	0.0	0.0
75°	9729.1	4023.4	76.0	32.6	21.7	14.5	10.9	7.2	0.0	0.0	0.0
77.5°	5213.7	1469.0	54.3	21.7	14.5	10.9	10.9	7.2	0.0	0.0	0.0
80°	1429.2	434.2	39.8	14.5	10.9	7.2	7.2	3.6	0.0	0.0	0.0
82.5°	390.8	112.2	25.3	14.5	10.9	7.2	3.6	0.0	0.0	0.0	0.0
85°	209.9	43.4	14.5	10.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	108.5	14.5	10.9	7.2	7.2	3.6	0.0	0.0	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)