

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: P483917

Luminaire Tested: **IFLD-L-SA7D-727-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483917  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

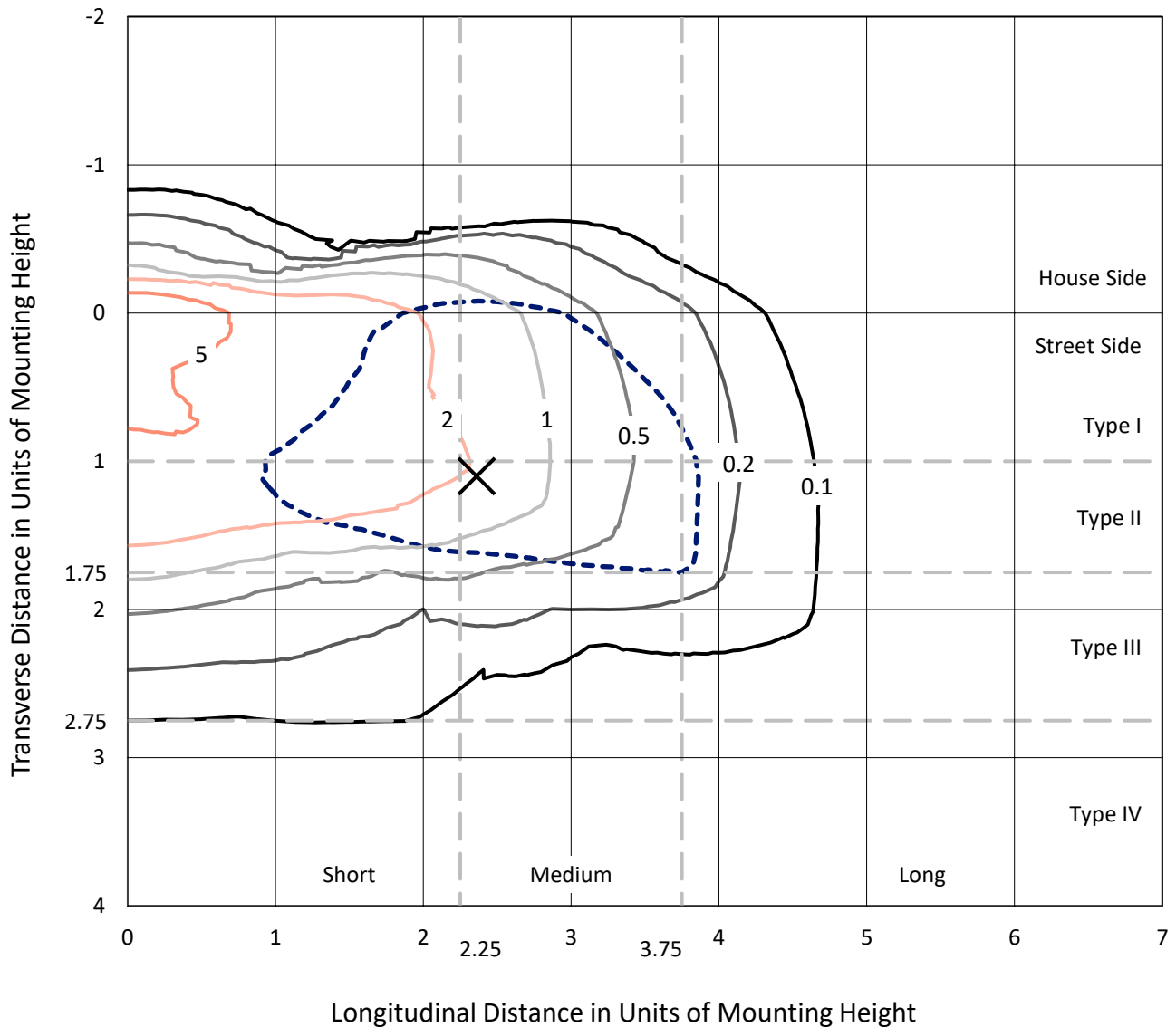
Lumens per Lamp: N/A  
Luminaire Lumens: 33575.6 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

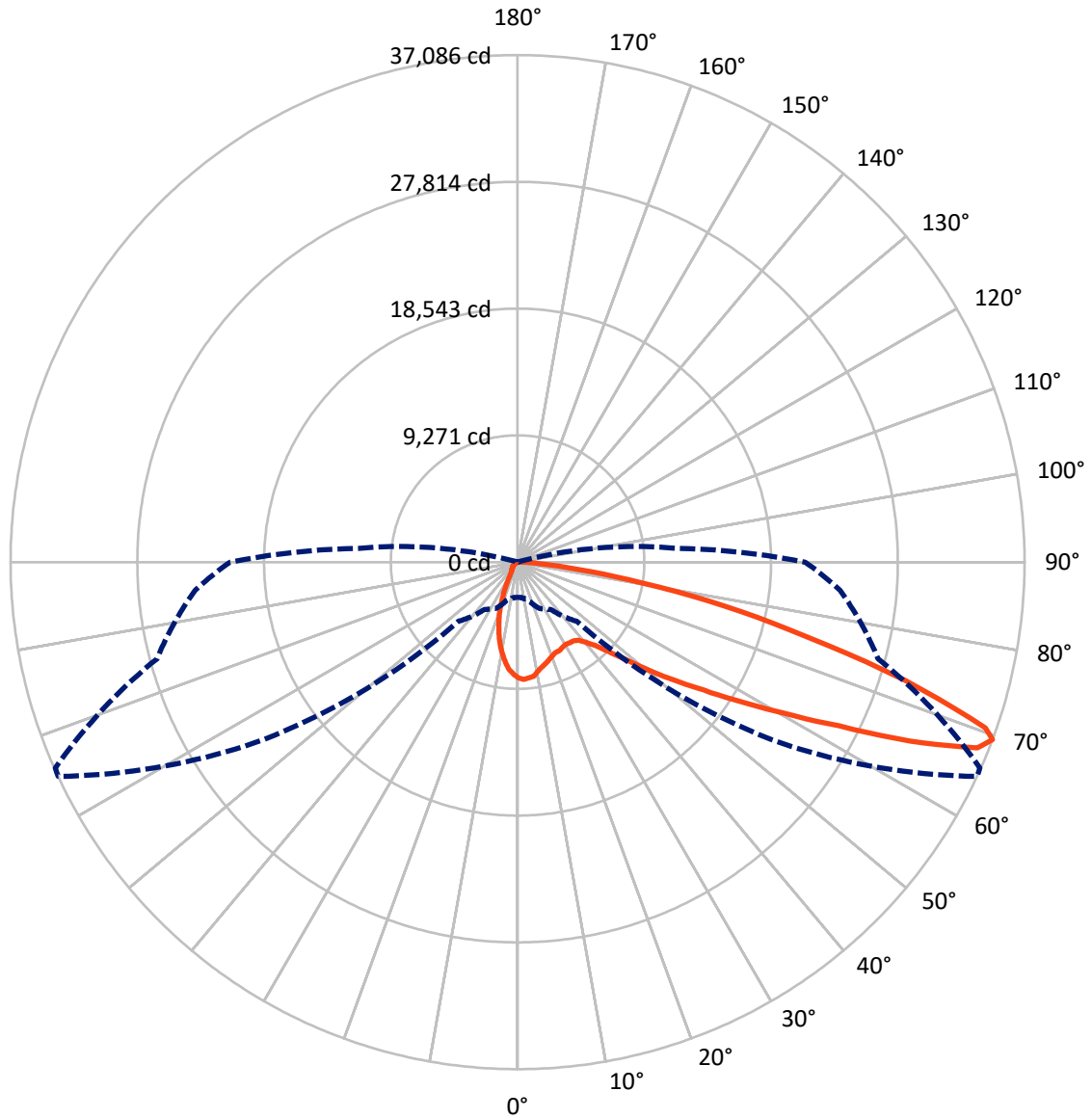
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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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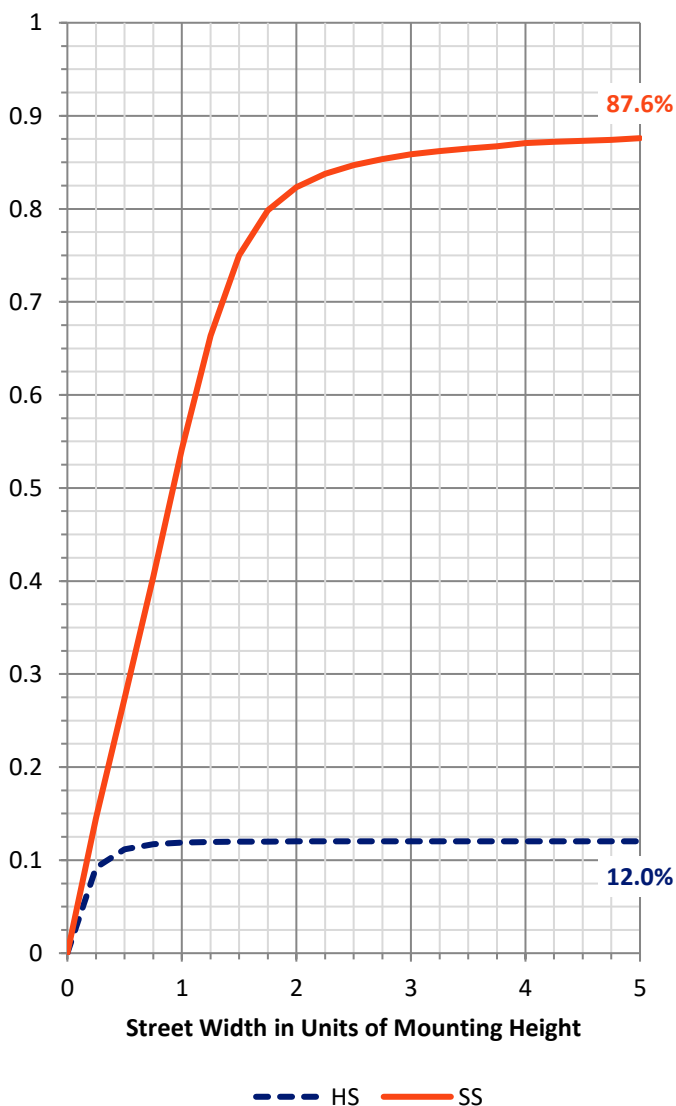
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4072.9	0.0	4072.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	29502.6	0.0	29502.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	33575.6	0.0	33575.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.7	2.1
10°-20°	1515.7	4.5
20°-30°	2110.2	6.3
30°-40°	2990.3	8.9
40°-50°	4712.6	14.0
50°-60°	7646.9	22.8
60°-70°	8540.1	25.4
70°-80°	4809.0	14.3
80°-90°	558.0	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°	33575.6	100.0
0°-180°	33575.6	100.0

**Coefficient of Utilization**



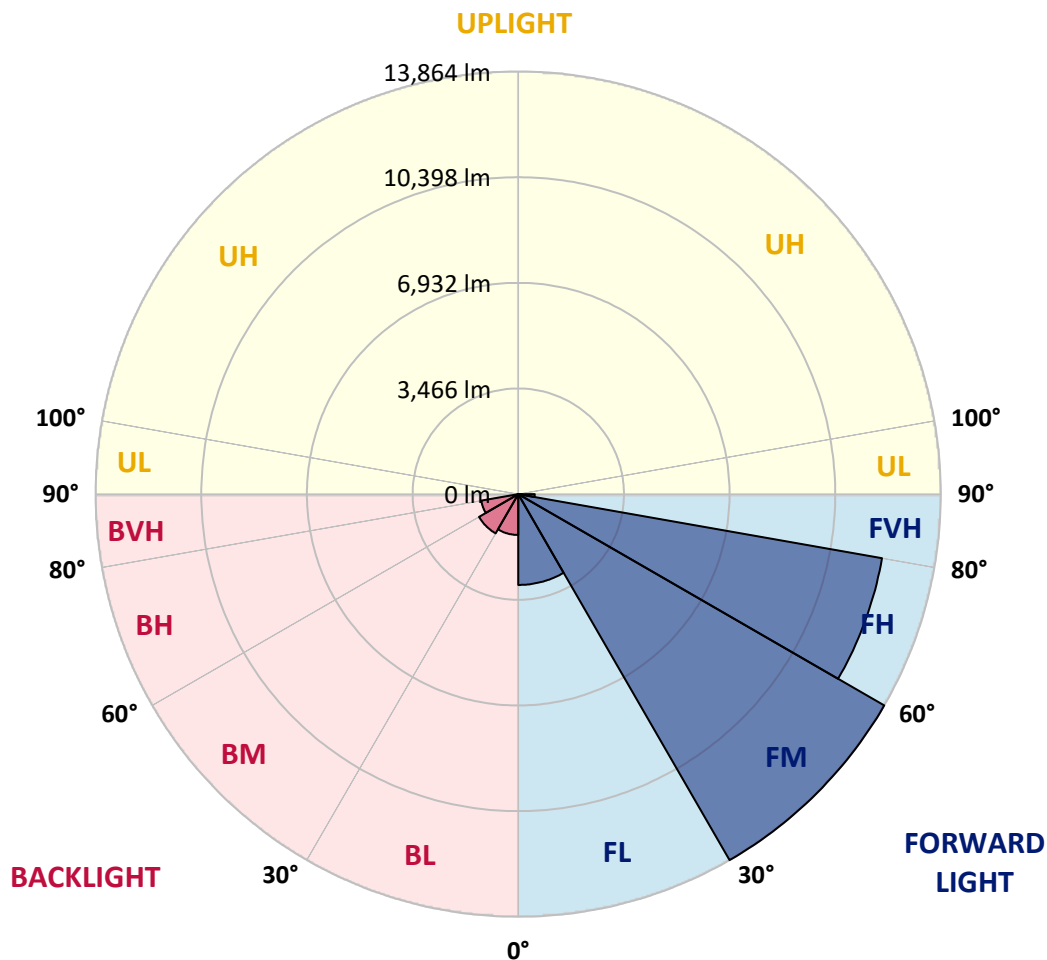
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2979.5	8.9			
FM (30°-60°)	13863.7	41.3			
FH (60°-80°)	12116.8	36.1			G5
FVH (80°-90°)	542.6	1.6			G4/750
BL (0°-30°)	1339.1	4.0	B3/2500		
BM (30°-60°)	1486.2	4.4	B2/2500		
BH (60°-80°)	1232.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.4	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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2
2.5°	8152.7	8216.1	8234.2	8297.6	8329.3	8465.2	8542.2	8587.5	8564.8	8614.6	8619.2
5°	7572.9	7536.7	7631.8	7699.7	7844.7	8080.2	8320.2	8505.9	8592.0	8673.5	8659.9
7.5°	6952.4	6934.3	7029.4	7183.4	7314.7	7600.1	7985.1	8442.5	8424.4	8623.7	8682.6
10°	6526.7	6544.8	6576.5	6730.5	6925.2	7215.1	7695.2	8121.0	8216.1	8637.3	8755.0
12.5°	6137.1	6168.8	6227.7	6386.2	6612.7	6911.6	7378.2	7876.4	8021.3	8560.3	8795.8
15°	6010.3	5937.9	6055.6	6173.4	6408.9	6676.1	7070.2	7690.7	7754.1	8469.7	8863.7
17.5°	5906.1	5860.9	5915.2	6010.3	6259.4	6476.8	6848.2	7491.4	7609.1	8433.5	8854.7
20°	5937.9	5897.1	5919.7	5992.2	6105.4	6309.3	6653.5	7301.2	7428.0	8265.9	8841.1
22.5°	6028.4	6060.1	6019.4	6037.5	6073.7	6177.9	6549.3	7165.3	7274.0	8234.2	8918.1
25°	6436.1	6381.7	6327.4	6304.7	6091.8	6137.1	6517.6	7156.2	7233.2	8121.0	8854.7
27.5°	6861.8	6816.5	6793.9	6662.5	6372.7	6236.8	6522.1	7029.4	7133.6	8075.7	8777.7
30°	7378.2	7437.0	7346.4	7187.9	6784.8	6449.7	6571.9	6966.0	7110.9	7903.5	8727.9
32.5°	7921.7	7953.4	7998.7	7880.9	7360.0	6771.2	6721.4	7024.9	7033.9	7903.5	8614.6
35°	8537.6	8492.4	8610.1	8619.2	8161.7	7341.9	7006.8	7065.6	7160.8	7867.3	8573.9
37.5°	9067.6	9144.6	9280.4	9497.8	9026.8	8148.1	7450.6	7255.9	7296.6	8034.9	8605.6
40°	9647.3	9724.3	10032.3	10249.7	9982.5	9054.0	8125.5	7699.7	7731.4	8284.0	8768.6
42.5°	10285.9	10435.4	10802.3	11182.7	11110.3	10204.4	8995.1	8351.9	8338.4	8904.5	9103.8
45°	11151.0	11350.3	11748.9	12188.2	12251.6	11522.4	10154.6	9325.7	9371.0	9715.2	9796.8
47.5°	12355.8	12346.7	12736.3	13225.4	13592.3	12890.3	11540.5	10634.7	10630.2	10997.0	10824.9
50°	13519.8	13524.4	13628.5	14194.7	15145.8	14788.0	13257.1	12373.9	12324.1	12505.3	12229.0
52.5°	14058.8	13995.4	13918.4	14602.3	16341.5	17179.5	15431.2	14344.1	14303.4	14194.7	14122.2
55°	13492.6	13515.3	13510.8	14221.9	16971.1	19702.3	18221.2	16513.7	16445.7	16106.0	16205.7
57.5°	11676.4	11603.9	11762.5	12872.1	16251.0	21423.4	22211.5	19249.3	19072.7	17944.9	17718.4
60°	8691.6	8714.3	8845.6	10154.6	14461.9	21785.7	26029.6	22460.6	21699.7	19240.3	18927.8
62.5°	6069.2	6023.9	6073.7	6807.5	10340.3	20336.3	28611.3	26364.8	25631.0	20712.3	20531.1
65°	4343.6	4284.7	4484.0	4932.4	6209.6	15548.9	28978.2	31564.4	30907.6	23063.0	22628.2
67.5°	3125.2	3116.1	3347.1	4162.4	4411.5	8954.3	26260.6	36274.8	35876.2	25853.0	23905.4
69°	2586.2	2590.7	2812.7	3727.6	4212.2	6114.5	22596.4	37085.5	37013.1	27293.3	23665.4
70°	2255.6	2273.7	2531.9	3469.4	4130.7	5027.5	19480.3	36288.4	36215.9	27574.1	22872.7
72.5°	1390.5	1404.1	1743.8	2781.0	3926.9	4103.5	11649.2	29689.3	29938.4	26287.8	19706.8
75°	665.8	670.3	914.9	2011.0	3786.5	3890.6	6241.3	21908.0	22433.4	21224.1	15399.5
77.5°	353.3	353.3	439.3	1068.9	3066.3	3659.6	3704.9	15453.8	15888.6	13420.2	8755.0
80°	176.6	181.2	267.2	557.1	1902.3	3587.2	2894.2	9217.0	9452.6	5475.9	2726.6
82.5°	67.9	72.5	126.8	335.2	987.4	3030.1	2540.9	4533.8	4474.9	1281.8	665.8
85°	9.1	9.1	45.3	199.3	421.2	1336.1	2097.0	1893.2	1829.8	280.8	321.6
87.5°	0.0	0.0	9.1	58.9	126.8	389.5	810.7	520.9	579.7	77.0	158.5
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°	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2	8465.2
2.5°	8596.5	8501.4	8356.5	8216.1	8066.6	7885.4	7686.1	7613.7	7486.9	7477.8	7550.3
5°	8587.5	8433.5	8179.8	7880.9	7455.2	7133.6	6784.8	6531.2	6336.4	6209.6	6241.3
7.5°	8632.8	8447.1	8007.7	7364.6	6816.5	6177.9	5638.9	5267.5	4927.8	4760.2	4742.1
10°	8560.3	8311.2	7668.0	6766.7	5960.5	5068.2	4280.1	3781.9	3274.7	3089.0	3098.0
12.5°	8601.1	8252.3	7301.2	6150.7	5041.1	3881.6	2939.5	2260.1	1784.5	1630.5	1612.4
15°	8628.2	8125.5	6947.9	5412.5	4022.0	2645.1	1703.0	1281.8	1132.3	1105.1	1100.6
17.5°	8524.1	7971.5	6449.7	4683.2	2980.2	1607.9	1132.3	1046.3	1019.1	1001.0	991.9
20°	8519.5	7880.9	6019.4	3935.9	1988.3	1096.1	978.3	946.6	905.9	892.3	892.3
22.5°	8442.5	7690.7	5503.0	3116.1	1268.2	942.1	878.7	828.9	783.6	765.4	760.9
25°	8419.9	7468.7	5018.4	2341.6	964.7	842.4	779.0	706.6	652.2	625.0	611.4
27.5°	8356.5	7278.5	4529.3	1648.6	842.4	751.9	670.3	593.3	529.9	489.2	484.6
30°	8130.0	7079.2	3985.7	1141.4	765.4	665.8	575.2	484.6	421.2	394.0	385.0
32.5°	8034.9	6893.5	3392.4	878.7	697.5	588.8	484.6	403.1	353.3	326.1	321.6
35°	7921.7	6621.8	2817.2	765.4	634.1	511.8	407.6	339.7	298.9	276.3	276.3
37.5°	7935.3	6404.4	2278.2	693.0	566.2	439.3	348.8	289.9	253.6	231.0	231.0
40°	7894.5	6232.3	1770.9	629.6	502.7	375.9	294.4	244.6	212.9	190.2	185.7
42.5°	8080.2	6187.0	1336.1	575.2	439.3	321.6	253.6	208.3	176.6	149.5	149.5
45°	8392.7	6259.4	1041.7	525.4	375.9	276.3	217.4	172.1	140.4	122.3	117.8
47.5°	9226.1	6544.8	815.3	484.6	321.6	240.1	181.2	140.4	113.2	95.1	90.6
50°	10435.4	7183.4	693.0	425.7	271.8	203.8	149.5	108.7	90.6	72.5	67.9
52.5°	12156.5	8256.8	629.6	375.9	226.5	167.6	117.8	86.1	67.9	54.4	49.8
55°	14031.6	9597.5	570.7	317.0	190.2	135.9	95.1	67.9	49.8	36.2	31.7
57.5°	15494.6	10757.0	520.9	262.7	154.0	108.7	72.5	49.8	36.2	22.6	18.1
60°	17093.4	11572.2	457.5	208.3	126.8	81.5	54.4	36.2	27.2	13.6	13.6
62.5°	18742.1	12527.9	375.9	163.1	99.6	63.4	40.8	27.2	18.1	4.5	4.5
65°	21033.9	13275.2	289.9	126.8	77.0	45.3	31.7	22.6	9.1	0.0	0.0
67.5°	21681.5	12908.4	212.9	99.6	54.4	31.7	22.6	13.6	4.5	0.0	0.0
69°	21033.9	11626.6	185.7	86.1	45.3	27.2	18.1	9.1	4.5	0.0	0.0
70°	19851.7	10630.2	163.1	72.5	40.8	27.2	13.6	9.1	4.5	0.0	0.0
72.5°	16604.2	8152.7	126.8	54.4	31.7	22.6	13.6	9.1	0.0	0.0	0.0
75°	12179.2	5036.5	95.1	40.8	27.2	18.1	13.6	9.1	0.0	0.0	0.0
77.5°	6526.7	1838.9	67.9	27.2	18.1	13.6	13.6	9.1	0.0	0.0	0.0
80°	1789.1	543.5	49.8	18.1	13.6	9.1	9.1	4.5	0.0	0.0	0.0
82.5°	489.2	140.4	31.7	18.1	13.6	9.1	4.5	0.0	0.0	0.0	0.0
85°	262.7	54.4	18.1	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	135.9	18.1	13.6	9.1	9.1	4.5	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)