

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: P481422

Luminaire Tested: **IFLD-L-SA7E-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481422  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

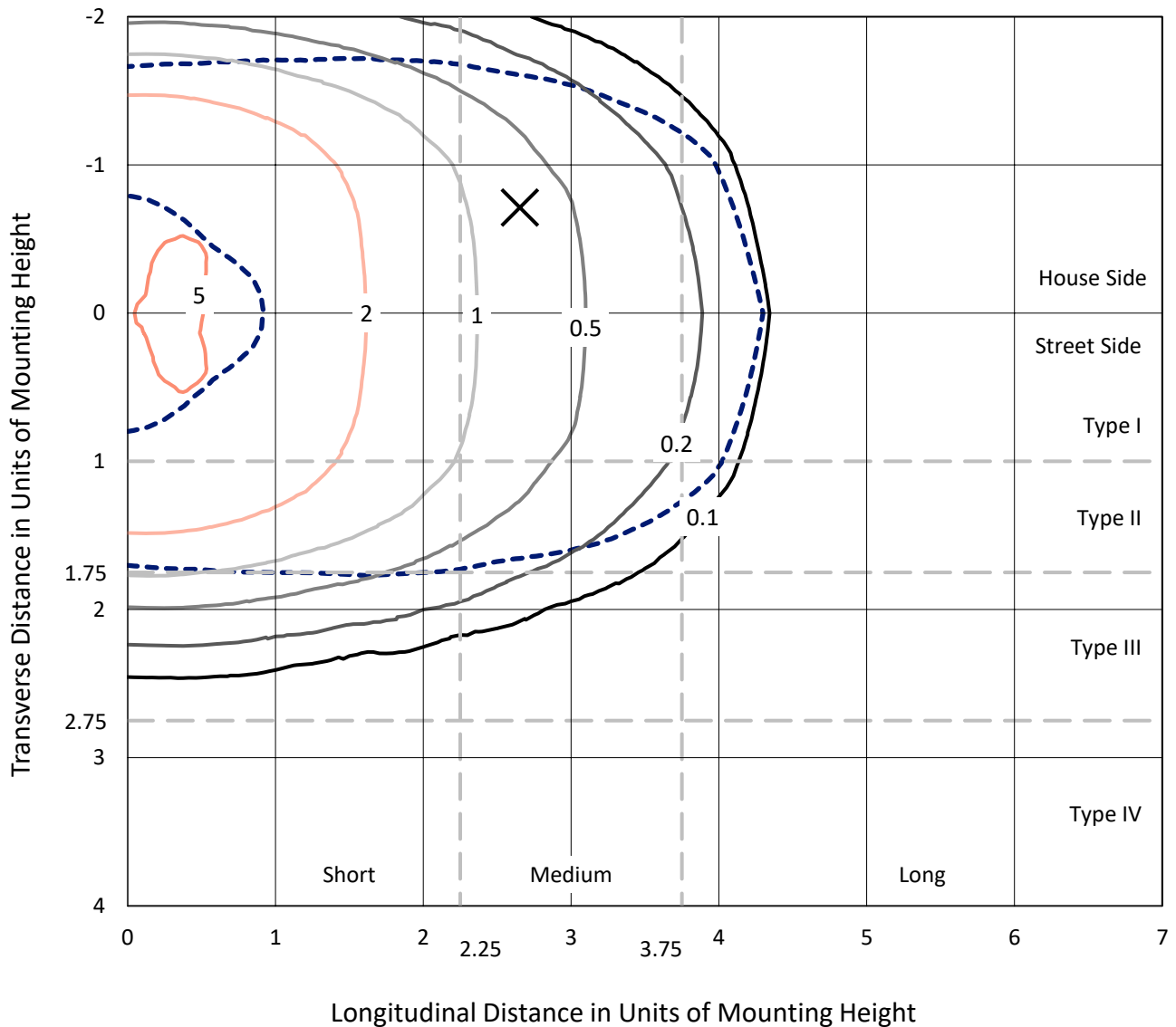
Lumens per Lamp: N/A  
Luminaire Lumens: 42743.5 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7  
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

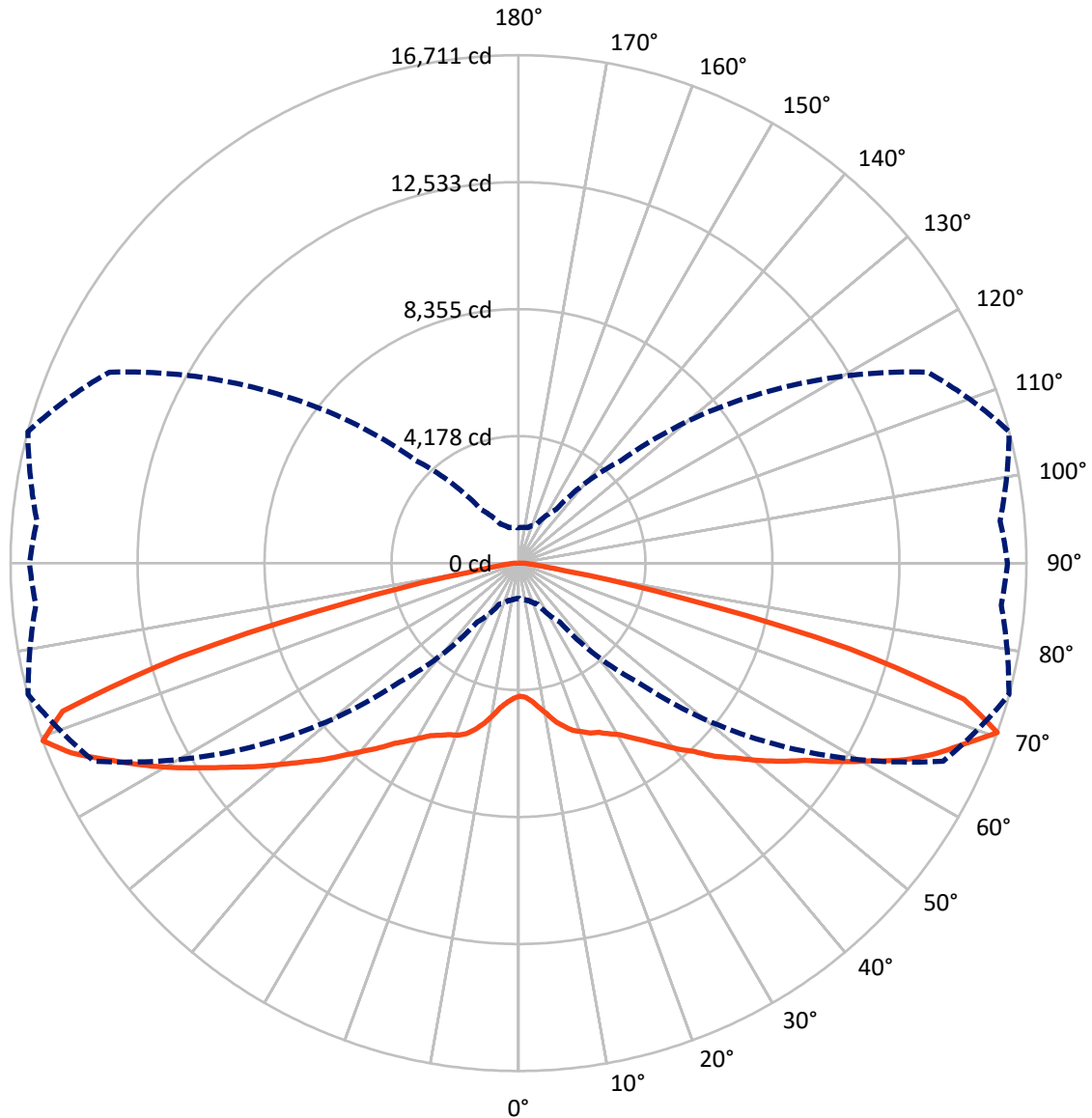
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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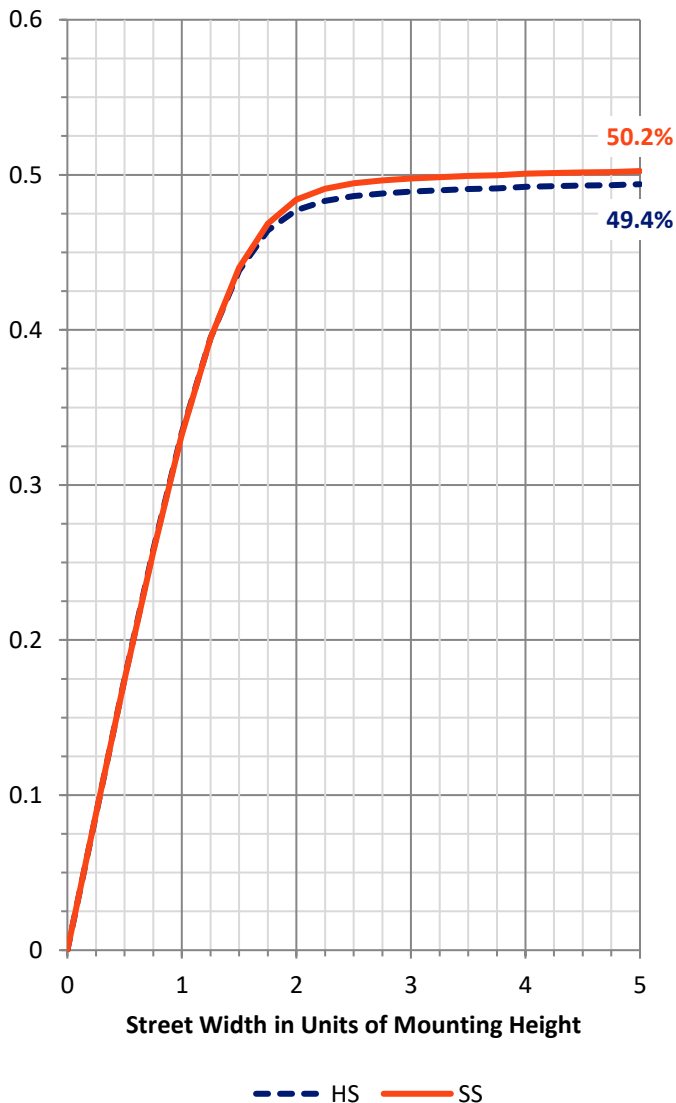
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21219.7	0.0	21219.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	21523.8	0.0	21523.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	42743.5	0.0	42743.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.6	1.0
10°-20°	1483.3	3.5
20°-30°	2872.3	6.7
30°-40°	4858.2	11.4
40°-50°	7750.2	18.1
50°-60°	10608.4	24.8
60°-70°	9999.1	23.4
70°-80°	4404.9	10.3
80°-90°	331.4	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°	42743.5	100.0
0°-180°	42743.5	100.0

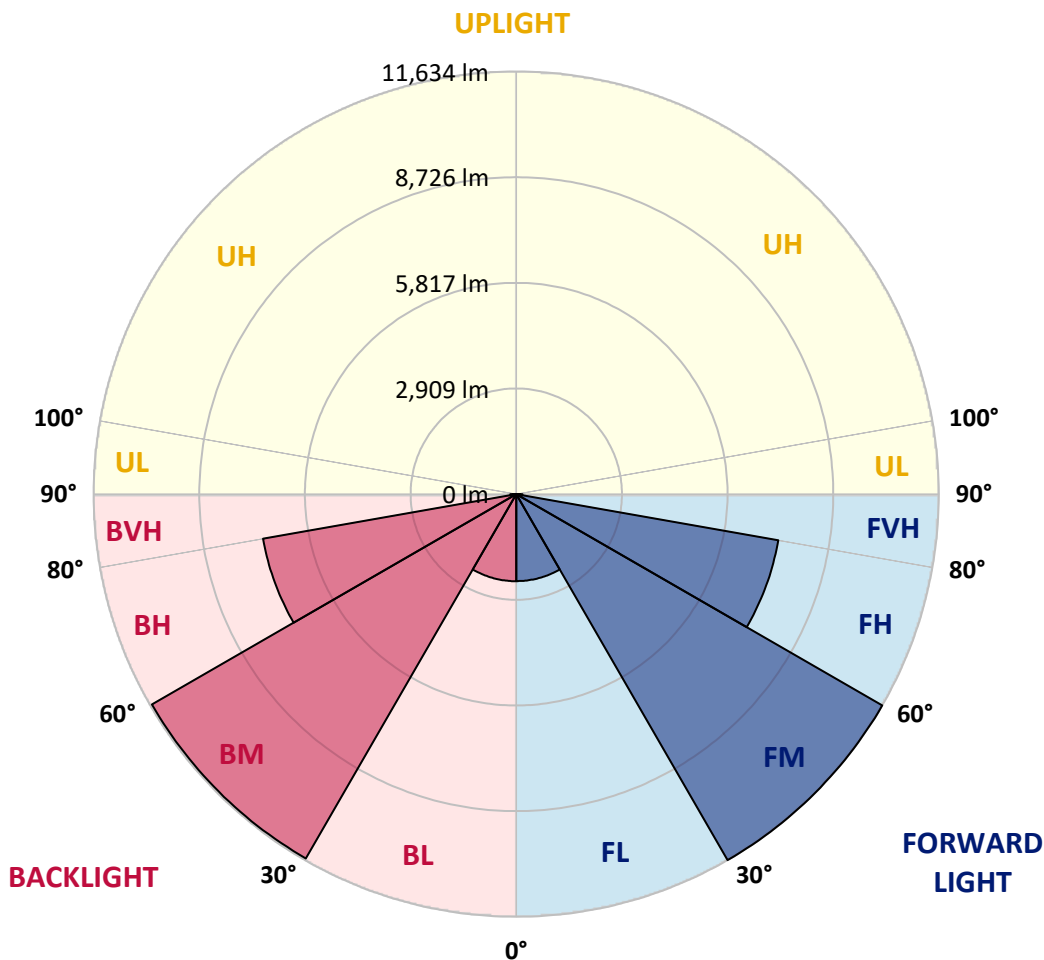


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.3	5.6			
FM (30°-60°)	11634.4	27.2			
FH (60°-80°)	7325.8	17.1			G3/7500
FVH (80°-90°)	169.3	0.4			G2/225
BL (0°-30°)	2396.9	5.6	B3/2500		
BM (30°-60°)	11582.4	27.1	B5		
BH (60°-80°)	7078.3	16.6	B5		G5
BVH (80°-90°)	162.1	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°	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9
2.5°	4349.2	4349.2	4344.6	4367.7	4390.7	4399.9	4418.4	4423.0	4450.6	4427.6	4473.6
5°	4335.4	4330.8	4367.7	4423.0	4423.0	4482.9	4519.7	4570.4	4584.2	4611.9	4621.1
7.5°	4432.2	4423.0	4404.5	4464.4	4515.1	4607.3	4657.9	4745.5	4777.7	4814.6	4856.0
10°	4492.1	4492.1	4473.6	4579.6	4625.7	4750.1	4860.7	4948.2	5072.6	5114.1	5118.7
12.5°	4501.3	4515.1	4570.4	4708.6	4837.6	4998.9	5081.8	5247.7	5372.1	5450.4	5478.0
15°	4639.5	4611.9	4671.8	4860.7	5049.6	5192.4	5339.8	5459.6	5639.3	5740.6	5805.1
17.5°	4763.9	4736.3	4846.8	5072.6	5266.1	5487.2	5616.2	5745.2	5874.3	5966.4	5971.0
20°	4962.0	4985.1	5081.8	5326.0	5579.4	5772.9	5920.3	5943.4	6007.9	6141.5	6118.4
22.5°	5206.2	5187.8	5390.5	5657.7	5934.1	6095.4	6178.3	6118.4	6086.2	6229.0	6261.3
25°	5450.4	5505.7	5690.0	5938.8	6270.5	6487.0	6510.1	6344.2	6224.4	6275.1	6261.3
27.5°	5823.6	5832.8	6026.3	6321.2	6657.5	6846.4	6832.6	6597.6	6367.2	6371.8	6381.0
30°	6302.7	6256.7	6468.6	6735.8	7067.5	7238.0	7261.0	6924.7	6616.0	6523.9	6546.9
32.5°	6763.5	6818.7	7003.0	7307.1	7551.3	7648.0	7597.4	7297.9	6897.1	6772.7	6786.5
35°	7353.2	7344.0	7597.4	7855.4	8039.7	8058.1	8016.6	7578.9	7201.1	7039.9	6975.4
37.5°	7984.4	8067.3	8233.2	8445.1	8638.6	8647.8	8422.1	8071.9	7606.6	7339.4	7417.7
40°	8689.3	8781.4	8901.2	9209.9	9352.7	9205.3	8974.9	8500.4	8016.6	7781.7	7818.5
42.5°	9311.3	9352.7	9596.9	9960.9	10030.0	9965.5	9624.6	9048.7	8486.6	8228.6	8247.0
45°	9882.6	9937.9	10255.8	10582.9	10744.1	10633.5	10237.3	9689.1	9034.8	8813.7	8726.1
47.5°	10407.8	10518.4	10827.1	11163.4	11412.2	11421.4	10933.0	10269.6	9578.5	9288.2	9283.6
50°	10762.5	10923.8	11227.9	11610.3	11974.3	12117.1	11628.7	10914.6	10172.8	9864.1	9831.9
52.5°	10956.1	11121.9	11426.0	12020.3	12425.8	12646.9	12416.6	11518.1	10868.5	10546.0	10495.3
55°	10721.1	10831.7	11329.2	12163.2	12789.7	13153.7	13001.7	12352.1	11559.6	11297.0	11343.1
57.5°	9721.3	9951.7	10564.4	11605.7	12780.5	13674.3	13660.5	13139.9	12356.7	12107.9	12117.1
60°	8002.8	8196.3	8951.9	10407.8	12264.5	13886.3	14374.6	13904.7	13250.5	12960.2	12951.0
62.5°	5648.5	5892.7	6768.1	8357.6	10744.1	13591.4	15194.7	14867.6	14125.8	13913.9	13992.2
65°	3160.6	3308.0	4118.9	5556.4	8187.1	11969.7	15342.2	15867.4	15015.0	14692.5	14706.4
67.5°	1690.9	1746.2	2123.9	2916.4	5008.1	9228.3	13854.0	16443.3	15978.0	15420.5	15332.9
70°	1161.0	1179.5	1276.2	1492.8	2368.1	5519.5	10449.3	15415.9	16701.3	15941.1	16088.5
72.5°	981.3	972.1	995.2	1018.2	1239.4	2469.5	6132.3	11863.7	15766.0	15480.4	15425.1
75°	852.3	847.7	856.9	833.9	861.6	1087.3	2713.7	7394.6	11541.2	12881.9	13089.2
77.5°	704.9	709.5	714.1	691.1	681.9	718.7	1091.9	3248.1	5680.7	6270.5	6763.5
80°	534.4	543.7	580.5	557.5	520.6	525.2	645.0	1087.3	1631.0	1478.9	1525.0
82.5°	364.0	368.6	446.9	419.3	391.6	354.8	414.7	562.1	635.8	483.8	423.9
85°	258.0	253.4	290.3	267.2	248.8	179.7	248.8	317.9	382.4	239.6	216.5
87.5°	59.9	59.9	119.8	96.8	92.1	73.7	96.8	124.4	165.9	106.0	96.8
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°	145°	155°	165°	175°	180°
0°	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9	4376.9
2.5°	4459.8	4418.4	4418.4	4409.1	4372.3	4363.1	4330.8	4340.0	4317.0	4294.0
5°	4616.5	4561.2	4561.2	4482.9	4409.1	4399.9	4363.1	4363.1	4326.2	4335.4
7.5°	4833.0	4782.3	4699.4	4630.3	4528.9	4487.5	4418.4	4409.1	4399.9	4381.5
10°	5091.0	5026.5	4943.6	4800.8	4717.8	4639.5	4570.4	4473.6	4450.6	4455.2
12.5°	5441.2	5339.8	5160.1	5035.7	4929.8	4828.4	4727.0	4584.2	4552.0	4565.8
15°	5690.0	5561.0	5381.3	5335.2	5192.4	5068.0	4902.1	4740.9	4685.6	4671.8
17.5°	5892.7	5786.7	5680.7	5611.6	5496.5	5344.4	5114.1	4929.8	4805.4	4791.5
20°	6058.5	5920.3	5897.3	5938.8	5795.9	5694.6	5413.5	5187.8	5021.9	4952.8
22.5°	6159.9	6072.4	6136.9	6173.7	6164.5	5994.0	5703.8	5441.2	5233.8	5169.3
25°	6270.5	6169.1	6399.5	6523.9	6556.1	6275.1	6049.3	5703.8	5501.1	5459.6
27.5°	6325.8	6362.6	6629.8	6892.5	6869.4	6652.9	6348.8	6040.1	5878.9	5805.1
30°	6487.0	6546.9	6952.3	7247.2	7251.8	7039.9	6809.5	6459.4	6279.7	6247.4
32.5°	6777.3	6851.0	7284.1	7597.4	7652.7	7491.4	7261.0	7044.5	6860.2	6786.5
35°	6998.4	7187.3	7675.7	7961.3	8108.8	8012.0	7883.0	7657.3	7463.8	7399.3
37.5°	7316.3	7578.9	8048.9	8435.9	8601.7	8592.5	8495.8	8251.6	8090.3	8035.1
40°	7772.4	8035.1	8463.5	8974.9	9283.6	9269.8	9214.5	9025.6	8786.0	8758.4
42.5°	8256.2	8472.7	9030.2	9615.3	10057.6	10011.6	9864.1	9643.0	9477.1	9440.3
45°	8726.1	9062.5	9578.5	10329.5	10661.2	10776.4	10601.3	10223.5	10034.6	10011.6
47.5°	9315.9	9583.1	10228.1	10900.8	11393.7	11412.2	11112.7	10762.5	10417.0	10490.7
50°	9841.1	10195.9	10850.1	11587.2	12177.0	11965.0	11582.6	11145.0	10896.2	10799.4
52.5°	10403.2	10836.3	11596.5	12347.4	12674.6	12462.6	11840.6	11352.3	10974.5	10933.0
55°	11223.3	11449.0	12444.2	13020.1	13126.1	12679.2	11762.3	11071.2	10582.9	10463.1
57.5°	12057.2	12319.8	13190.6	13688.2	13577.6	12559.4	11255.5	10186.6	9546.2	9375.8
60°	12900.3	13222.8	13955.4	14411.5	13840.2	11734.7	9822.7	8445.1	7698.7	7546.7
62.5°	13840.2	14259.5	14913.7	15074.9	13061.6	10103.7	7795.5	6095.4	5339.8	5086.4
65°	14674.1	15102.6	15908.9	14936.7	11407.6	7537.5	5040.3	3483.1	2925.6	2722.9
67.5°	15360.6	15844.4	16240.6	13218.2	8353.0	4413.8	2626.1	1833.7	1626.4	1552.6
70°	15904.2	16710.5	14858.4	9716.7	4773.1	2151.6	1419.0	1207.1	1179.5	1161.0
72.5°	15429.7	15323.7	11094.3	5607.0	2091.7	1184.1	1027.4	995.2	990.6	995.2
75°	12619.3	11255.5	6634.4	2437.2	1050.5	856.9	852.3	838.5	861.6	861.6
77.5°	6123.0	5353.6	2773.6	1045.8	691.1	672.7	695.7	695.7	695.7	695.7
80°	1419.0	1571.1	990.6	635.8	502.2	502.2	552.9	557.5	534.4	525.2
82.5°	483.8	645.0	543.7	400.8	331.7	373.2	419.3	428.5	354.8	359.4
85°	239.6	377.8	294.9	230.4	170.5	230.4	271.8	285.6	244.2	235.0
87.5°	110.6	165.9	110.6	78.3	59.9	82.9	78.3	64.5	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)