

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: P477168

Luminaire Tested: **IFLD-L-SA7B-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

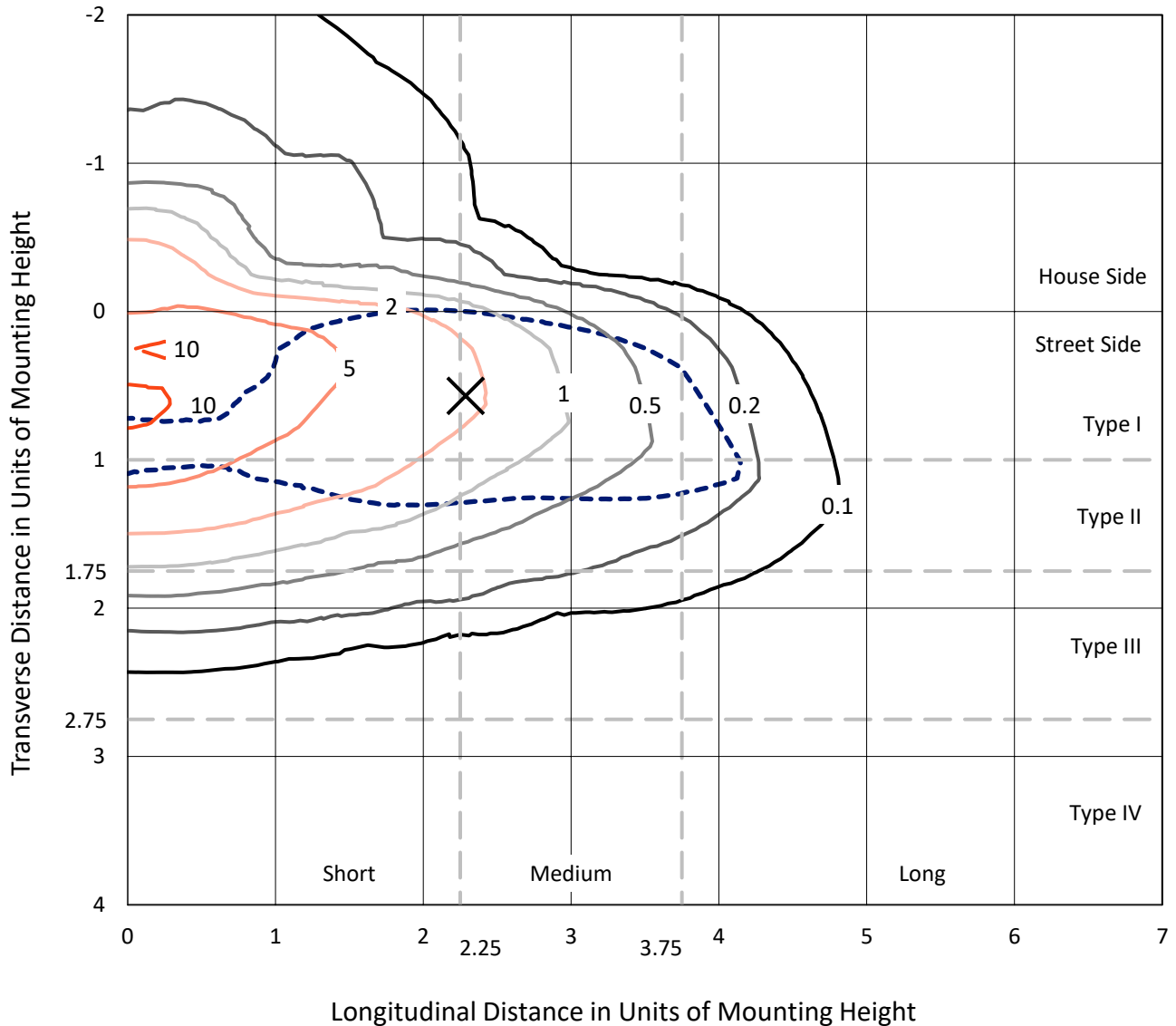
Lumens per Lamp: N/A
Luminaire Lumens: 28456.4 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

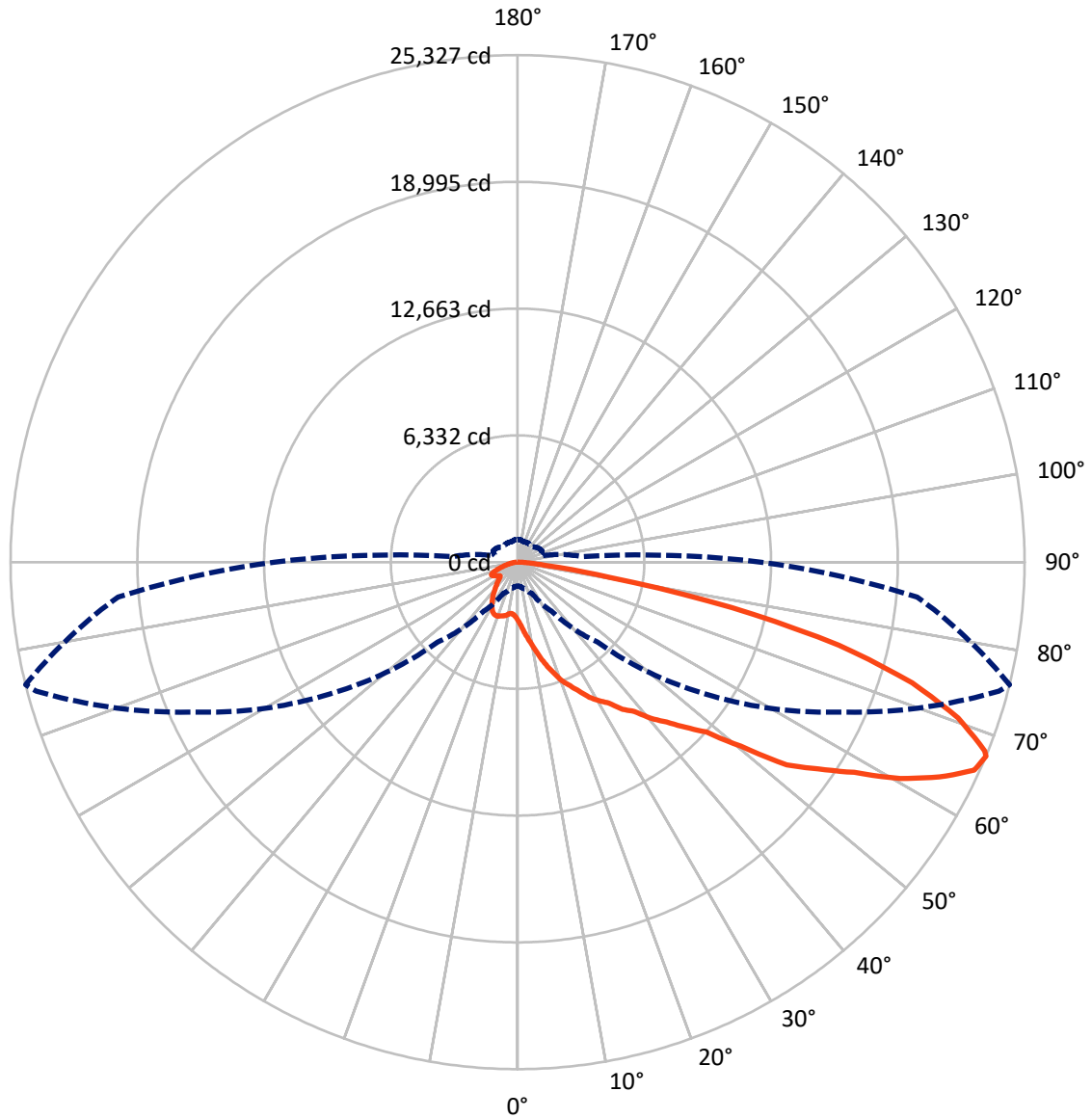
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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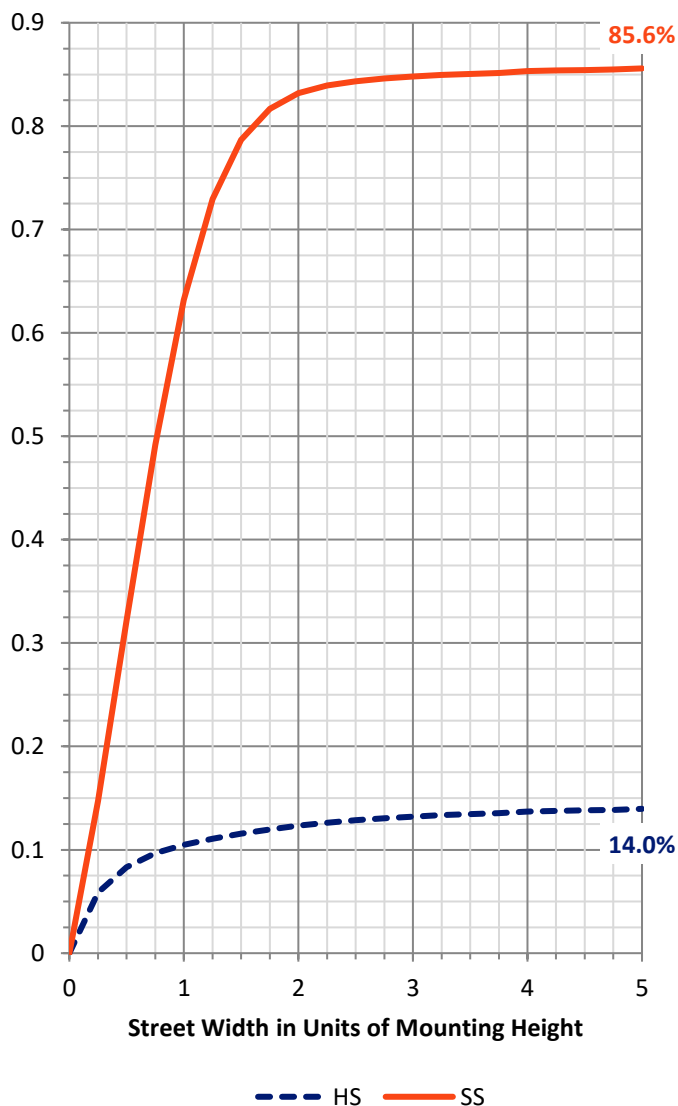
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4048.3	0.0	4048.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24408.1	0.0	24408.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	28456.4	0.0	28456.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	1.2
10°-20°	1265.1	4.4
20°-30°	2352.1	8.3
30°-40°	3728.5	13.1
40°-50°	5156.9	18.1
50°-60°	6343.3	22.3
60°-70°	5902.8	20.7
70°-80°	2962.0	10.4
80°-90°	408.4	1.4
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°	28456.4	100.0
0°-180°	28456.4	100.0

Coefficient of Utilization



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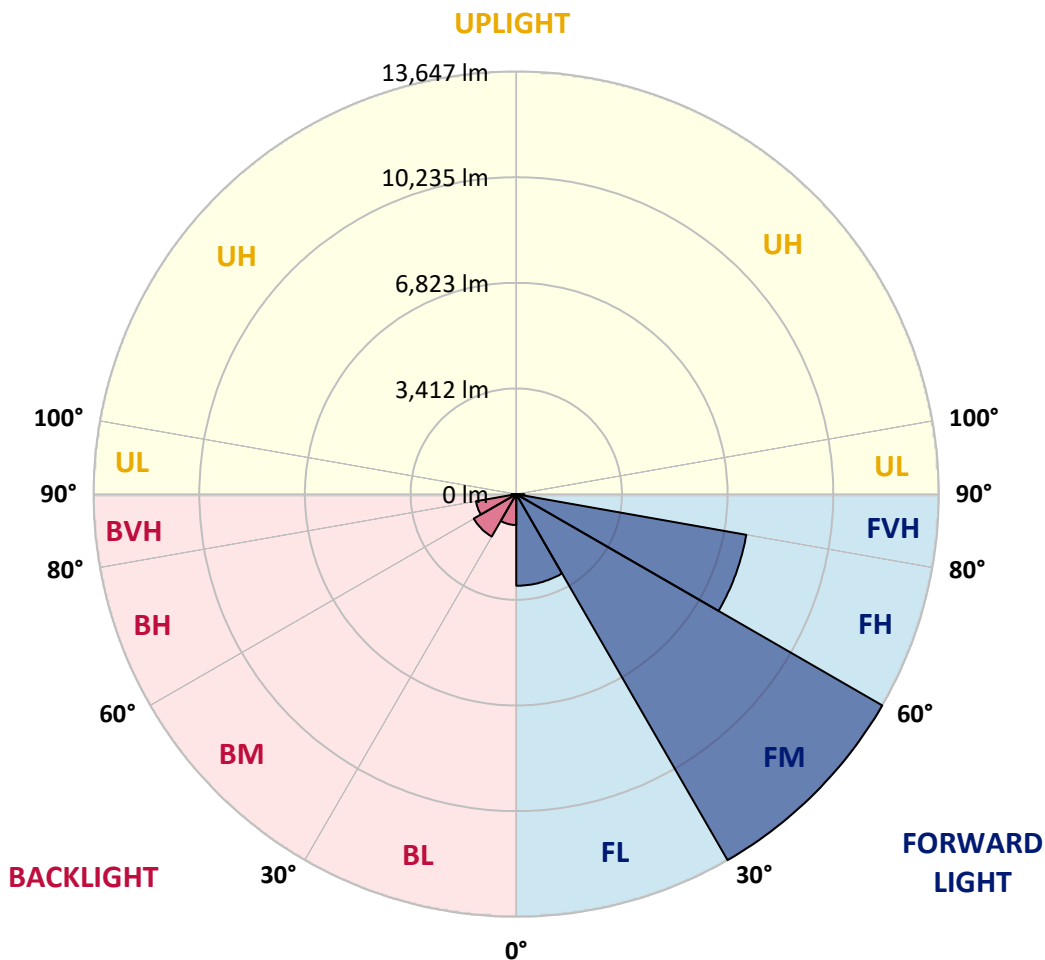
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2957.6	10.4			
FM (30°-60°)	13646.8	48.0			
FH (60°-80°)	7543.6	26.5			G4/12000
FVH (80°-90°)	260.2	0.9			G3/500
BL (0°-30°)	996.9	3.5	B2/1000		
BM (30°-60°)	1582.0	5.6	B2/2500		
BH (60°-80°)	1321.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	148.2	0.5			G2/225
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°	75°	76°	85°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	4040.6	3991.9	3943.3	3839.5	3803.9	3706.6	3528.2	3330.4	3168.3	3145.6	3032.1
5°	5013.4	4942.1	4925.9	4867.5	4682.7	4494.6	4202.7	3884.9	3489.3	3518.5	3129.3
7.5°	5743.1	5700.9	5613.4	5558.2	5448.0	5198.3	4896.7	4475.1	3972.5	3875.2	3346.6
10°	6294.4	6236.0	6232.8	6184.1	6125.7	5869.6	5639.3	5071.8	4426.5	4293.5	3612.5
12.5°	6573.3	6563.5	6735.4	6735.4	6712.7	6605.7	6210.1	5691.2	4857.8	4812.4	3920.6
15°	6874.8	6793.8	6942.9	7056.4	7114.8	7169.9	6842.4	6294.4	5409.1	5321.5	4251.4
17.5°	6874.8	6868.4	7017.5	7205.6	7510.4	7581.8	7403.4	6848.9	5866.3	5801.5	4614.6
20°	6758.1	6852.1	6955.9	7208.9	7539.6	7828.2	7880.1	7416.4	6372.2	6320.3	5026.4
22.5°	7302.9	7212.1	7319.1	7416.4	7672.6	8110.4	8253.0	7915.8	6904.0	6706.2	5399.3
25°	8217.4	8155.8	8077.9	7935.2	8042.3	8233.6	8450.9	8285.5	7358.0	7137.5	5759.3
27.5°	9109.2	9112.4	8943.8	8632.5	8402.2	8441.1	8697.3	8609.8	7740.7	7643.4	6005.8
30°	10377.1	10299.3	10111.2	9689.6	9238.9	8869.2	8827.0	8911.3	8227.1	8039.0	6359.2
32.5°	11327.3	11343.5	11077.6	10471.2	9855.0	9553.4	9183.7	9219.4	8535.2	8395.7	6641.4
35°	12095.8	12076.4	11888.3	11385.6	10656.0	10292.8	9793.4	9589.1	9251.8	9031.3	7072.7
37.5°	12926.0	12767.1	12462.3	11894.8	11427.8	10925.2	10438.7	9978.2	9728.5	9462.6	7442.3
40°	13260.0	13260.0	12851.4	12592.0	12037.4	11658.0	11343.5	10490.6	10309.0	10257.1	7915.8
42.5°	13023.3	13169.2	13000.6	12705.5	12478.5	11998.5	11914.2	11022.4	11025.7	10921.9	8483.3
45°	13000.6	12799.5	12660.1	12734.7	12627.6	12601.7	12815.7	11758.6	11778.0	11765.1	9245.4
47.5°	12348.8	12258.0	12465.5	12588.7	12676.3	13078.4	13694.5	12637.4	12776.8	12679.5	10124.2
50°	11700.2	11684.0	11813.7	12261.2	12640.6	13302.2	14531.2	13992.9	14450.1	14443.6	11716.4
52.5°	9923.1	10095.0	10604.1	11551.0	12488.2	13607.0	15163.6	15724.6	16596.9	16833.6	13036.2
55°	8223.9	8133.1	8885.4	10260.4	11823.4	13727.0	15870.5	16765.5	18049.7	18221.6	14391.8
57.5°	6398.1	6566.8	7160.2	8480.0	10448.5	13133.5	16389.4	17793.5	19690.6	19823.5	15964.5
60°	4773.5	4796.2	5448.0	6511.6	8619.5	11794.2	16558.0	18847.4	21571.4	21950.8	17611.9
62.5°	3002.9	3139.1	3635.2	4682.7	6488.9	9919.9	15802.4	19486.3	23543.1	23643.6	19272.2
65°	1618.2	1705.7	2078.7	2737.0	4533.5	7503.9	13798.3	19103.6	24470.5	25067.2	20011.6
67°	1196.6	1212.8	1384.7	1747.9	3032.1	5649.0	11505.6	17718.9	24892.1	25326.6	20040.8
67.5°	1122.0	1144.7	1280.9	1569.5	2688.3	5201.5	10905.7	17226.0	24704.0	25171.0	19813.8
70°	959.9	966.4	998.8	1079.9	1507.9	3129.3	7426.1	14116.1	22897.7	23345.3	18221.6
72.5°	852.9	859.4	872.3	888.5	1021.5	1809.5	4517.3	10863.5	19901.4	20614.8	15721.3
75°	749.1	771.8	778.3	765.3	869.1	1177.2	2403.0	7983.9	16233.7	16580.7	12225.5
77.5°	635.6	645.3	658.3	671.3	775.0	878.8	1154.5	5389.6	11142.4	10931.6	6612.2
80°	535.1	538.3	548.0	557.8	671.3	671.3	655.1	2912.1	4867.5	4653.5	2234.3
82.5°	382.7	405.4	428.1	454.0	557.8	450.8	428.1	1297.1	1540.4	1465.8	755.6
85°	149.2	181.6	282.1	311.3	353.5	243.2	285.4	561.0	642.1	635.6	282.1
87.5°	25.9	29.2	77.8	120.0	129.7	84.3	136.2	201.1	240.0	259.4	103.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2938.0	2837.5	2717.5	2597.5	2519.7	2396.5	2386.7	2312.2	2302.4	2276.5	2289.5
5°	2960.7	2840.7	2597.5	2406.2	2318.6	2247.3	2263.5	2231.1	2221.4	2205.1	2179.2
7.5°	3139.1	2902.3	2539.1	2373.8	2308.9	2276.5	2276.5	2237.6	2208.4	2227.8	2247.3
10°	3255.8	2931.5	2584.5	2419.2	2367.3	2295.9	2321.9	2273.2	2289.5	2250.5	2250.5
12.5°	3443.9	3096.9	2678.6	2487.3	2403.0	2338.1	2364.0	2308.9	2295.9	2299.2	2289.5
15°	3696.8	3207.2	2720.7	2526.2	2467.8	2386.7	2367.3	2318.6	2270.0	2253.8	2273.2
17.5°	3933.6	3343.4	2749.9	2548.9	2454.8	2364.0	2341.3	2279.7	2263.5	2214.9	2176.0
20°	4215.7	3505.5	2788.8	2568.3	2406.2	2315.4	2257.0	2195.4	2140.3	2111.1	2124.1
22.5°	4403.8	3589.8	2808.3	2529.4	2334.9	2250.5	2127.3	2085.2	2007.3	1974.9	1949.0
25°	4711.9	3693.6	2759.7	2422.4	2208.4	2072.2	1961.9	1903.6	1848.4	1806.3	1793.3
27.5°	4789.7	3771.4	2646.2	2240.8	2007.3	1864.6	1770.6	1699.3	1663.6	1598.7	1585.8
30°	5016.7	3693.6	2477.5	2020.3	1816.0	1670.1	1576.0	1524.1	1439.8	1423.6	1387.9
32.5°	5162.6	3716.3	2263.5	1806.3	1595.5	1465.8	1404.2	1352.3	1329.6	1251.7	1232.3
35°	5405.8	3638.5	2046.2	1608.5	1413.9	1313.4	1261.5	1245.3	1170.7	1135.0	1102.6
37.5°	5561.5	3593.1	1829.0	1384.7	1216.1	1173.9	1190.1	1122.0	1031.2	963.1	940.4
40°	5833.9	3576.9	1582.5	1199.9	1079.9	1070.1	1122.0	992.3	826.9	768.6	736.1
42.5°	6226.3	3466.6	1391.2	1034.5	972.9	1015.0	1024.7	826.9	732.9	684.2	661.5
45°	6602.4	3489.3	1203.1	856.1	846.4	908.0	885.3	700.5	645.3	609.7	629.1
47.5°	7325.6	3602.8	1018.3	713.4	762.1	820.4	687.5	625.9	574.0	548.0	551.3
50°	8444.4	3713.1	856.1	651.8	719.9	742.6	590.2	567.5	564.3	512.4	509.1
52.5°	9115.6	3670.9	826.9	729.6	771.8	742.6	642.1	625.9	599.9	577.2	551.3
55°	10182.5	3794.1	888.5	852.9	875.6	713.4	719.9	713.4	694.0	635.6	651.8
57.5°	11032.2	3875.2	969.6	953.4	940.4	742.6	752.3	755.6	742.6	716.7	739.4
60°	12199.6	4037.3	1053.9	1057.2	1060.4	807.5	823.7	843.1	839.9	830.2	836.7
62.5°	12916.3	3962.8	1148.0	1199.9	1183.6	940.4	937.2	950.2	950.2	966.4	976.1
65°	12809.2	3687.1	1196.6	1326.3	1242.0	1037.7	1037.7	1044.2	1047.4	1079.9	1083.1
67°	12167.2	3194.2	1170.7	1345.8	1242.0	1076.6	1076.6	1083.1	1060.4	1144.7	1118.8
67.5°	11868.8	3048.3	1148.0	1329.6	1232.3	1073.4	1073.4	1076.6	1057.2	1138.2	1112.3
70°	10322.0	2263.5	989.1	1177.2	1141.5	1044.2	1044.2	1024.7	1008.5	1115.5	1092.8
72.5°	8810.8	1644.1	794.5	1002.0	1031.2	1005.3	1011.8	963.1	917.7	992.3	972.9
75°	6748.4	1209.6	619.4	771.8	872.3	940.4	982.6	859.4	801.0	820.4	784.8
77.5°	3764.9	788.0	489.7	570.7	664.8	875.6	943.7	775.0	655.1	632.4	632.4
80°	1277.7	460.5	360.0	424.8	457.2	775.0	882.1	629.1	515.6	492.9	476.7
82.5°	483.2	282.1	246.5	291.9	291.9	612.9	719.9	483.2	389.1	502.6	512.4
85°	220.5	168.6	162.1	168.6	168.6	376.2	509.1	314.6	350.2	301.6	265.9
87.5°	87.6	81.1	74.6	71.3	58.4	64.9	175.1	84.3	158.9	42.2	38.9
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)