

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: P476949

Luminaire Tested: **IFLD-S-SA3C-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

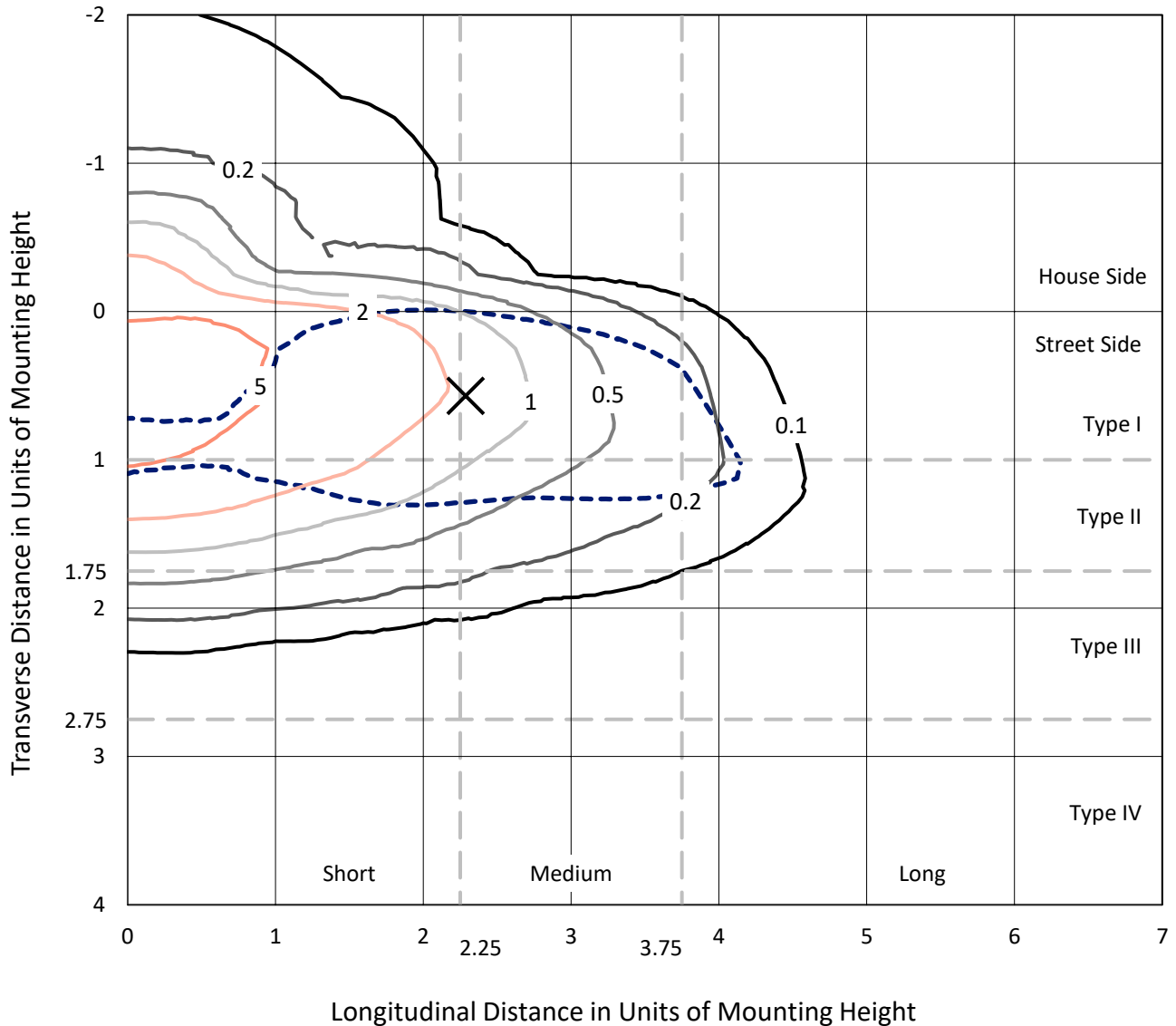
Lumens per Lamp: N/A
Luminaire Lumens: 21009.2 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

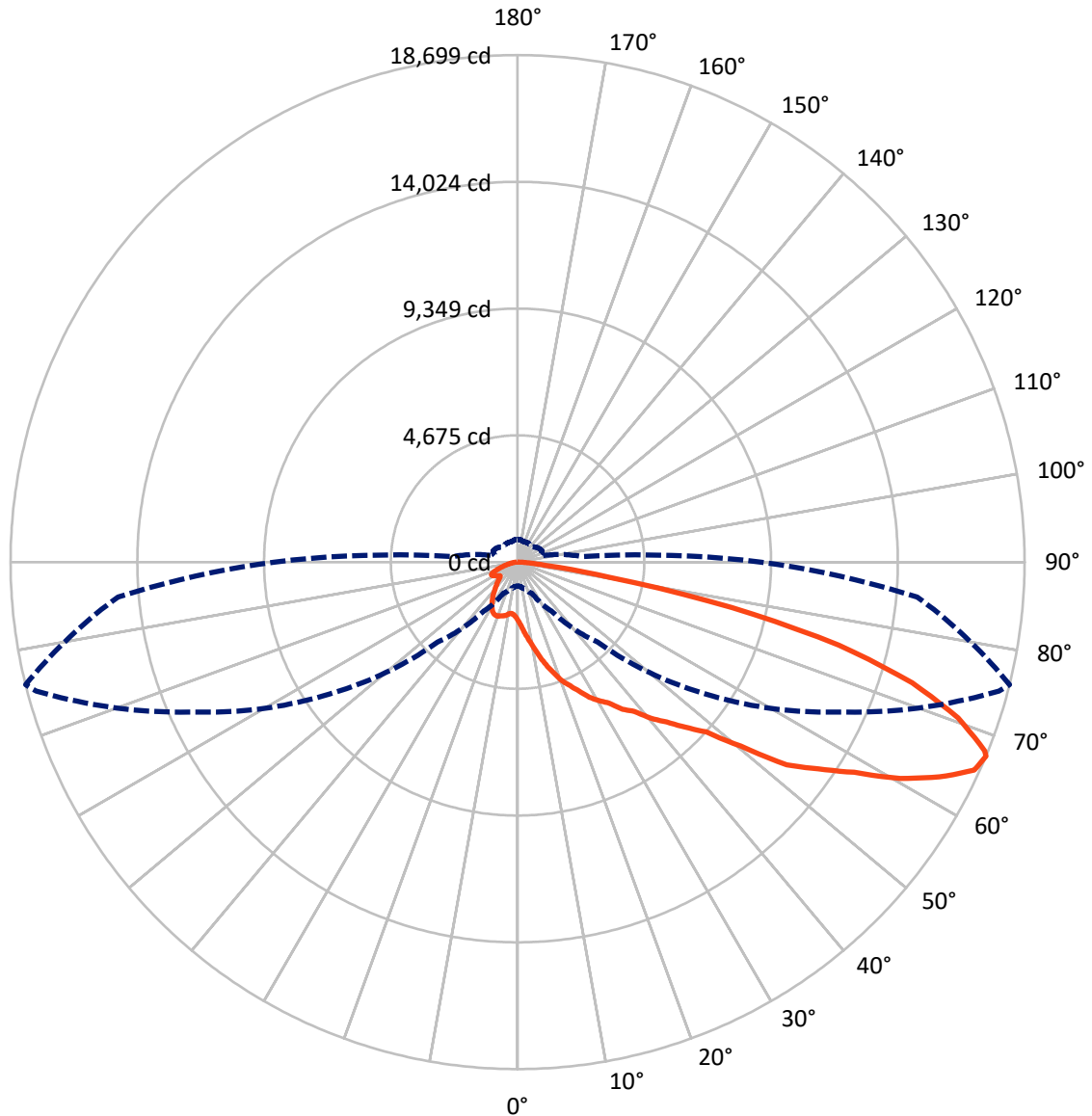
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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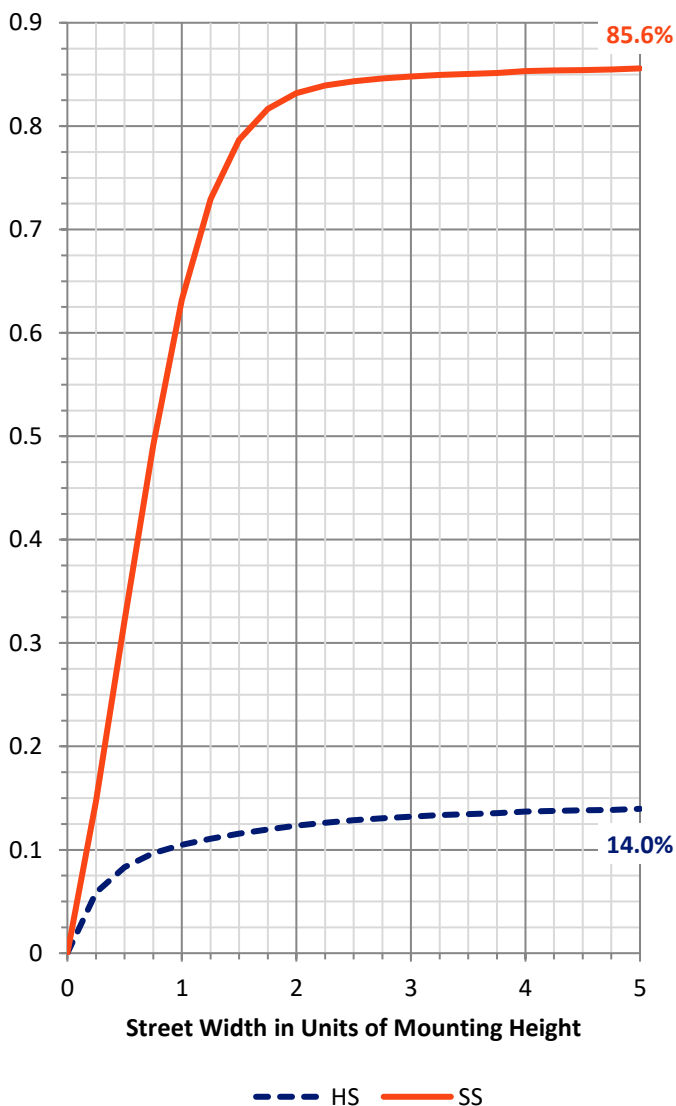
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2988.8	0.0	2988.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18020.4	0.0	18020.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	21009.2	0.0	21009.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	1.2
10°-20°	934.0	4.4
20°-30°	1736.5	8.3
30°-40°	2752.8	13.1
40°-50°	3807.3	18.1
50°-60°	4683.2	22.3
60°-70°	4358.0	20.7
70°-80°	2186.8	10.4
80°-90°	301.5	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°	21009.2	100.0
0°-180°	21009.2	100.0

Coefficient of Utilization



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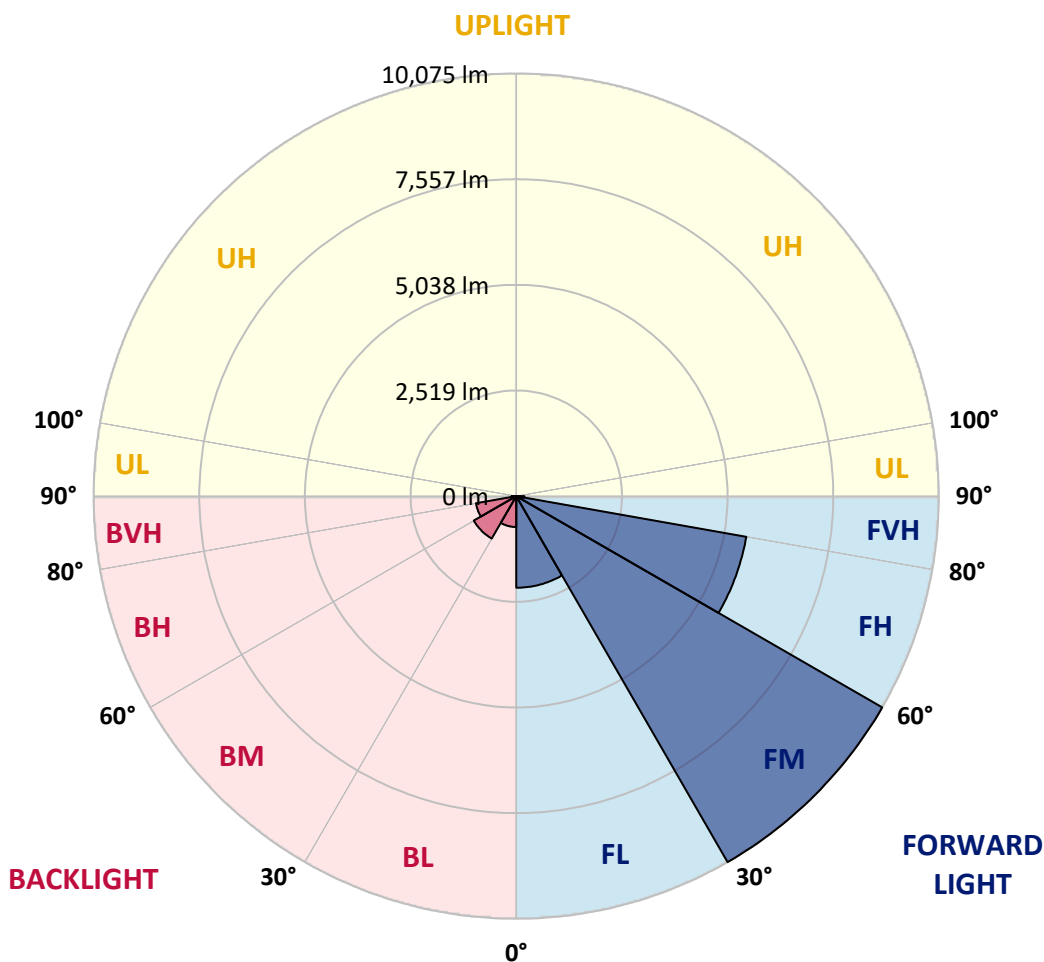
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.6	10.4			
FM (30°-60°)	10075.3	48.0			
FH (60°-80°)	5569.4	26.5			G3/7500
FVH (80°-90°)	192.1	0.9			G2/225
BL (0°-30°)	736.0	3.5	B2/1000		
BM (30°-60°)	1168.0	5.6	B2/2500		
BH (60°-80°)	975.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	109.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0
2.5°	2983.1	2947.2	2911.3	2834.7	2808.4	2736.5	2604.9	2458.8	2339.1	2322.4	2238.6
5°	3701.4	3648.7	3636.8	3593.7	3457.2	3318.3	3102.9	2868.2	2576.1	2597.7	2310.4
7.5°	4240.1	4209.0	4144.3	4103.6	4022.2	3837.9	3615.2	3304.0	2932.9	2861.0	2470.8
10°	4647.1	4604.0	4601.6	4565.7	4522.6	4333.5	4163.5	3744.5	3268.1	3169.9	2667.1
12.5°	4853.0	4845.8	4972.7	4972.7	4955.9	4876.9	4584.8	4201.8	3586.5	3553.0	2894.6
15°	5075.7	5015.8	5125.9	5209.7	5252.8	5293.5	5051.7	4647.1	3993.5	3928.8	3138.8
17.5°	5075.7	5070.9	5181.0	5319.9	5544.9	5597.6	5465.9	5056.5	4331.1	4283.2	3406.9
20°	4989.5	5058.9	5135.5	5322.3	5566.5	5779.5	5817.8	5475.5	4704.6	4666.3	3711.0
22.5°	5391.7	5324.6	5403.7	5475.5	5664.6	5987.8	6093.2	5844.2	5097.2	4951.2	3986.3
25°	6066.8	6021.4	5963.9	5858.6	5937.6	6078.8	6239.2	6117.1	5432.4	5269.6	4252.1
27.5°	6725.2	6727.6	6603.1	6373.3	6203.3	6232.0	6421.2	6356.5	5714.9	5643.1	4434.0
30°	7661.4	7603.9	7465.0	7153.8	6821.0	6548.1	6516.9	6579.2	6074.0	5935.2	4695.0
32.5°	8362.9	8374.8	8178.5	7730.8	7275.9	7053.2	6780.3	6806.6	6301.5	6198.5	4903.3
35°	8930.3	8915.9	8777.1	8406.0	7867.3	7599.1	7230.4	7079.6	6830.6	6667.8	5221.7
37.5°	9543.2	9425.9	9200.8	8781.8	8437.1	8066.0	7706.9	7366.9	7182.5	6986.2	5494.6
40°	9789.8	9789.8	9488.1	9296.6	8887.2	8607.1	8374.8	7745.2	7611.1	7572.8	5844.2
42.5°	9615.0	9722.8	9598.3	9380.4	9212.8	8858.5	8796.2	8137.8	8140.2	8063.6	6263.2
45°	9598.3	9449.8	9346.9	9401.9	9322.9	9303.8	9461.8	8681.3	8695.6	8686.1	6825.8
47.5°	9117.0	9050.0	9203.2	9294.2	9358.8	9655.7	10110.6	9330.1	9433.1	9361.2	7474.6
50°	8638.2	8626.2	8722.0	9052.4	9332.5	9820.9	10728.3	10330.9	10668.5	10663.7	8650.2
52.5°	7326.2	7453.1	7829.0	8528.1	9220.0	10046.0	11195.2	11609.4	12253.4	12428.2	9624.6
55°	6071.6	6004.6	6560.0	7575.2	8729.2	10134.5	11717.1	12377.9	13326.0	13452.9	10625.4
57.5°	4723.7	4848.2	5286.3	6260.8	7714.0	9696.4	12100.2	13136.8	14537.4	14635.6	11786.5
60°	3524.2	3541.0	4022.2	4807.5	6363.7	8707.6	12224.7	13915.0	15926.1	16206.2	13002.8
62.5°	2217.0	2317.6	2683.9	3457.2	4790.7	7323.8	11666.8	14386.6	17381.7	17455.9	14228.6
65°	1194.7	1259.3	1534.7	2020.7	3347.1	5540.1	10187.2	14104.1	18066.5	18507.0	14774.5
67°	883.5	895.4	1022.3	1290.5	2238.6	4170.7	8494.5	13081.8	18377.7	18698.5	14796.0
67.5°	828.4	845.1	945.7	1158.8	1984.8	3840.3	8051.6	12717.9	18238.8	18583.6	14628.4
70°	708.7	713.5	737.4	797.3	1113.3	2310.4	5482.7	10421.9	16905.3	17235.7	13452.9
72.5°	629.7	634.5	644.0	656.0	754.2	1336.0	3335.1	8020.5	14693.1	15219.8	11607.0
75°	553.1	569.8	574.6	565.0	641.6	869.1	1774.1	5894.5	11985.2	12241.4	9026.0
77.5°	469.3	476.4	486.0	495.6	572.2	648.8	852.3	3979.1	8226.4	8070.8	4881.7
80°	395.0	397.4	404.6	411.8	495.6	495.6	483.6	2150.0	3593.7	3435.6	1649.6
82.5°	282.5	299.3	316.0	335.2	411.8	332.8	316.0	957.7	1137.2	1082.2	557.8
85°	110.1	134.1	208.3	229.8	261.0	179.6	210.7	414.2	474.0	469.3	208.3
87.5°	19.2	21.5	57.5	88.6	95.8	62.2	100.6	148.4	177.2	191.5	76.6
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°	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0
2.5°	2169.1	2094.9	2006.3	1917.7	1860.3	1769.3	1762.1	1707.0	1699.9	1680.7	1690.3
5°	2185.9	2097.3	1917.7	1776.5	1711.8	1659.2	1671.1	1647.2	1640.0	1628.0	1608.9
7.5°	2317.6	2142.8	1874.6	1752.5	1704.7	1680.7	1680.7	1652.0	1630.4	1644.8	1659.2
10°	2403.8	2164.3	1908.2	1786.1	1747.7	1695.1	1714.2	1678.3	1690.3	1661.6	1661.6
12.5°	2542.6	2286.4	1977.6	1836.3	1774.1	1726.2	1745.4	1704.7	1695.1	1697.5	1690.3
15°	2729.4	2367.8	2008.7	1865.1	1822.0	1762.1	1747.7	1711.8	1675.9	1664.0	1678.3
17.5°	2904.1	2468.4	2030.3	1881.8	1812.4	1745.4	1728.6	1683.1	1671.1	1635.2	1606.5
20°	3112.4	2588.1	2059.0	1896.2	1776.5	1709.4	1666.3	1620.9	1580.2	1558.6	1568.2
22.5°	3251.3	2650.4	2073.4	1867.5	1723.8	1661.6	1570.6	1539.5	1482.0	1458.1	1438.9
25°	3478.7	2727.0	2037.4	1788.4	1630.4	1529.9	1448.5	1405.4	1364.7	1333.6	1324.0
27.5°	3536.2	2784.4	1953.6	1654.4	1482.0	1376.7	1307.2	1254.5	1228.2	1180.3	1170.8
30°	3703.8	2727.0	1829.2	1491.6	1340.7	1233.0	1163.6	1125.3	1063.0	1051.0	1024.7
32.5°	3811.5	2743.7	1671.1	1333.6	1177.9	1082.2	1036.7	998.4	981.6	924.2	909.8
35°	3991.1	2686.3	1510.7	1187.5	1043.9	969.6	931.3	919.4	864.3	838.0	814.0
37.5°	4106.0	2652.7	1350.3	1022.3	897.8	866.7	878.7	828.4	761.3	711.1	694.3
40°	4307.1	2640.8	1168.4	885.8	797.3	790.1	828.4	732.6	610.5	567.4	543.5
42.5°	4596.8	2559.4	1027.1	763.7	718.3	749.4	756.6	610.5	541.1	505.2	488.4
45°	4874.5	2576.1	888.2	632.1	624.9	670.4	653.6	517.1	476.4	450.1	464.5
47.5°	5408.4	2659.9	751.8	526.7	562.6	605.7	507.6	462.1	423.8	404.6	407.0
50°	6234.4	2741.3	632.1	481.2	531.5	548.3	435.7	419.0	416.6	378.3	375.9
52.5°	6730.0	2710.2	610.5	538.7	569.8	548.3	474.0	462.1	442.9	426.2	407.0
55°	7517.7	2801.2	656.0	629.7	646.4	526.7	531.5	526.7	512.4	469.3	481.2
57.5°	8145.0	2861.0	715.9	703.9	694.3	548.3	555.4	557.8	548.3	529.1	545.9
60°	9006.9	2980.7	778.1	780.5	782.9	596.1	608.1	622.5	620.1	612.9	617.7
62.5°	9536.0	2925.7	847.5	885.8	873.9	694.3	691.9	701.5	701.5	713.5	720.6
65°	9457.0	2722.2	883.5	979.2	917.0	766.1	766.1	770.9	773.3	797.3	799.7
67°	8983.0	2358.3	864.3	993.6	917.0	794.9	794.9	799.7	782.9	845.1	826.0
67.5°	8762.7	2250.5	847.5	981.6	909.8	792.5	792.5	794.9	780.5	840.4	821.2
70°	7620.7	1671.1	730.2	869.1	842.8	770.9	770.9	756.6	744.6	823.6	806.8
72.5°	6505.0	1213.8	586.6	739.8	761.3	742.2	747.0	711.1	677.6	732.6	718.3
75°	4982.3	893.0	457.3	569.8	644.0	694.3	725.4	634.5	591.4	605.7	579.4
77.5°	2779.6	581.8	361.5	421.4	490.8	646.4	696.7	572.2	483.6	466.9	466.9
80°	943.3	340.0	265.8	313.6	337.6	572.2	651.2	464.5	380.7	363.9	351.9
82.5°	356.7	208.3	182.0	215.5	215.5	452.5	531.5	356.7	287.3	371.1	378.3
85°	162.8	124.5	119.7	124.5	124.5	277.7	375.9	232.2	258.6	222.7	196.3
87.5°	64.6	59.9	55.1	52.7	43.1	47.9	129.3	62.2	117.3	31.1	28.7
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)