

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: P477141

Luminaire Tested: **IFLD-S-SA2E-830-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477141  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-830-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

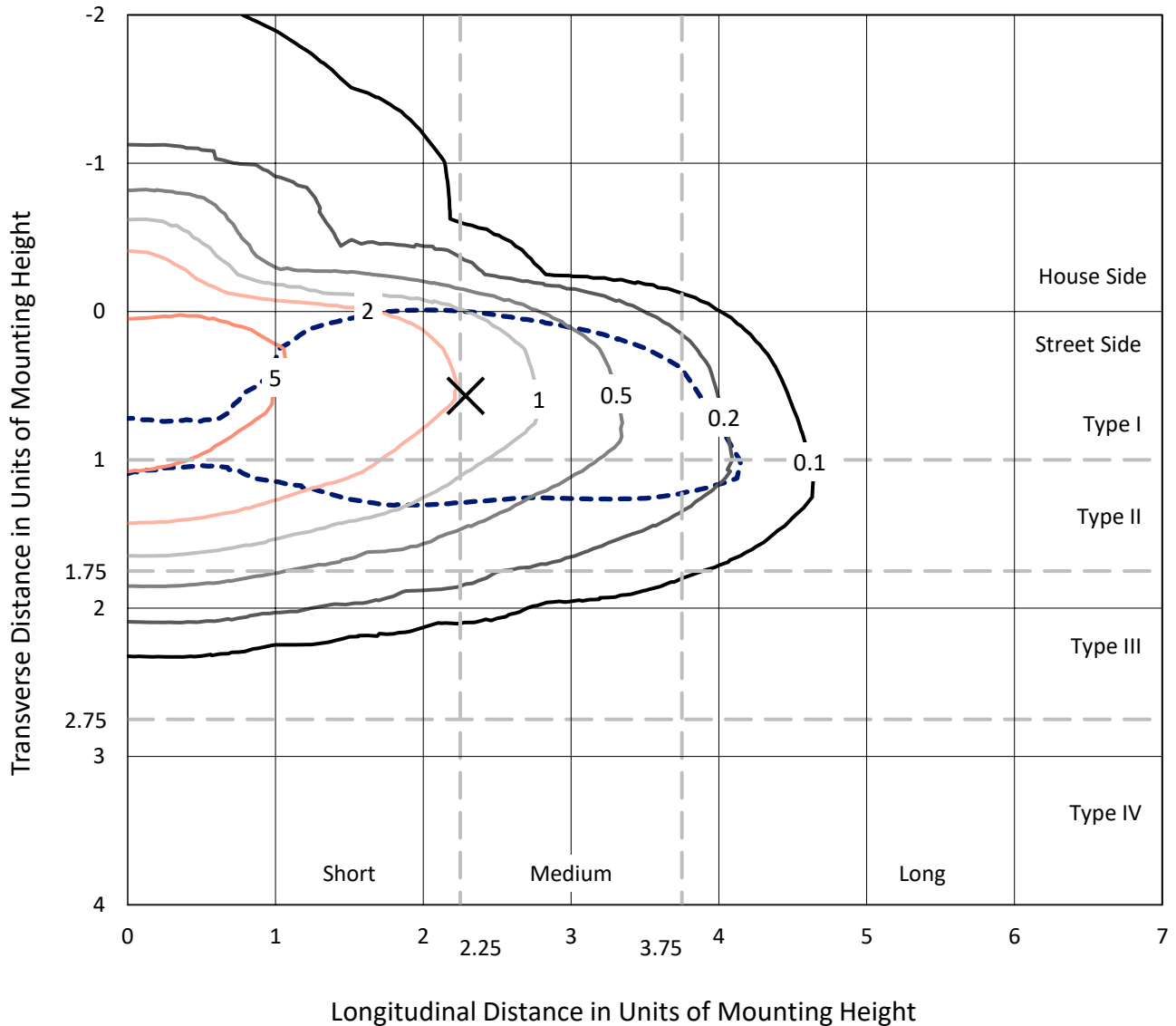
Lumens per Lamp: N/A  
Luminaire Lumens: 14462.6 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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

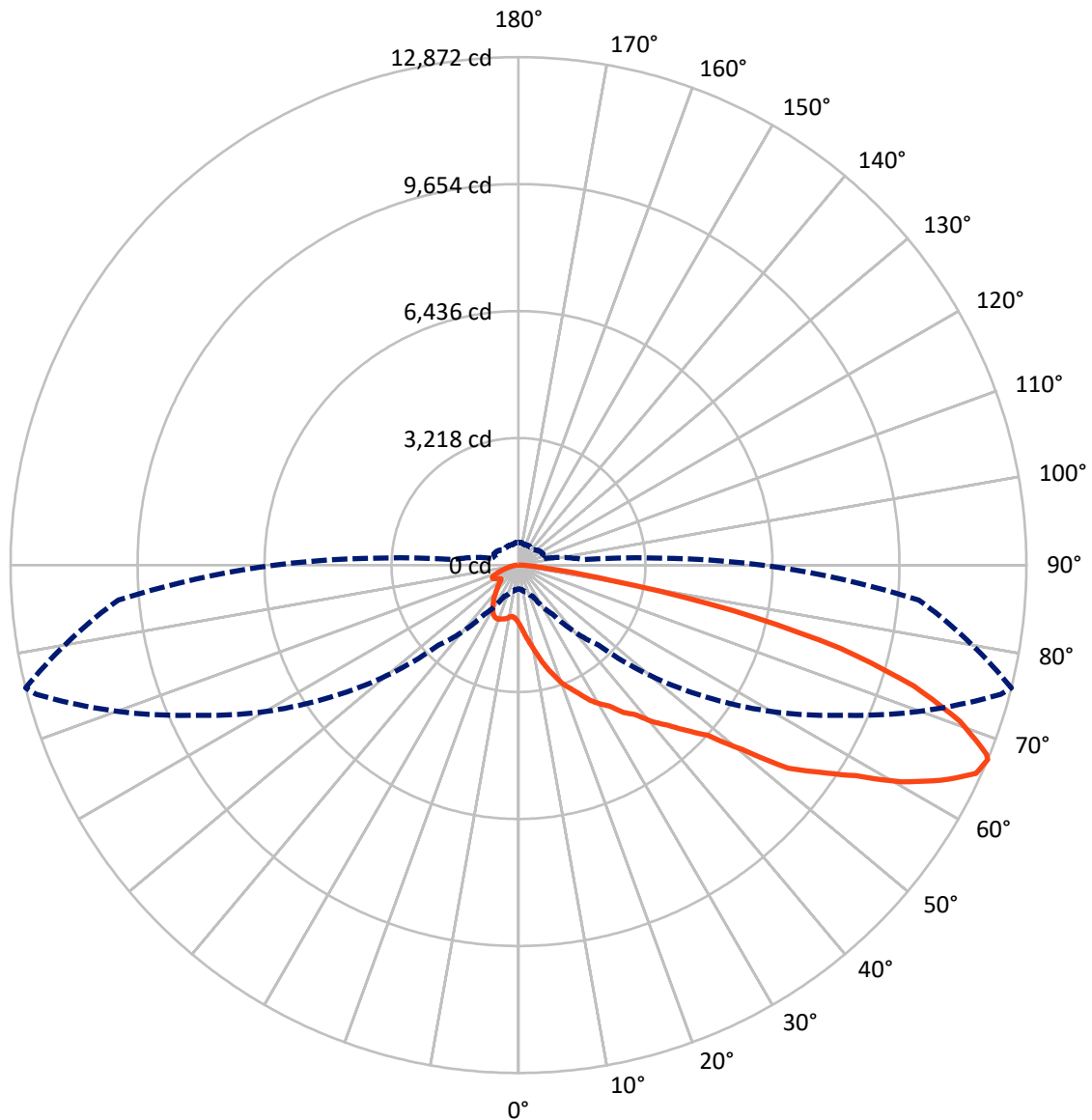
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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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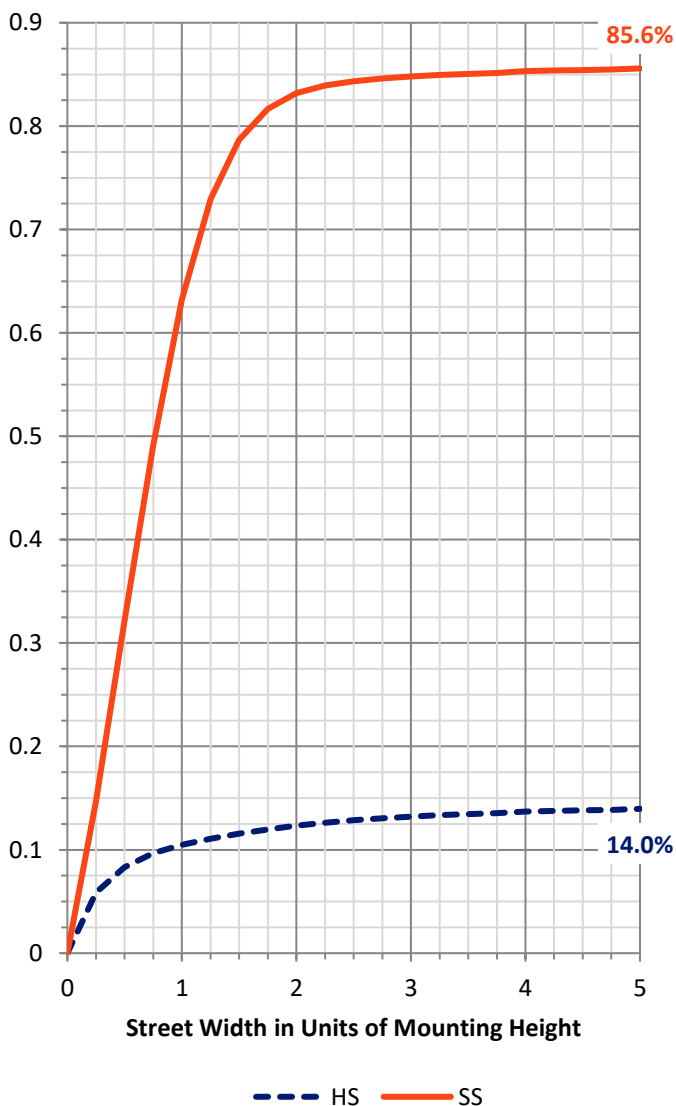
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2057.5	0.0	2057.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	12405.1	0.0	12405.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	14462.6	0.0	14462.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	1.2
10°-20°	643.0	4.4
20°-30°	1195.4	8.3
30°-40°	1895.0	13.1
40°-50°	2620.9	18.1
50°-60°	3223.9	22.3
60°-70°	3000.0	20.7
70°-80°	1505.4	10.4
80°-90°	207.6	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°	14462.6	100.0
0°-180°	14462.6	100.0

**Coefficient of Utilization**

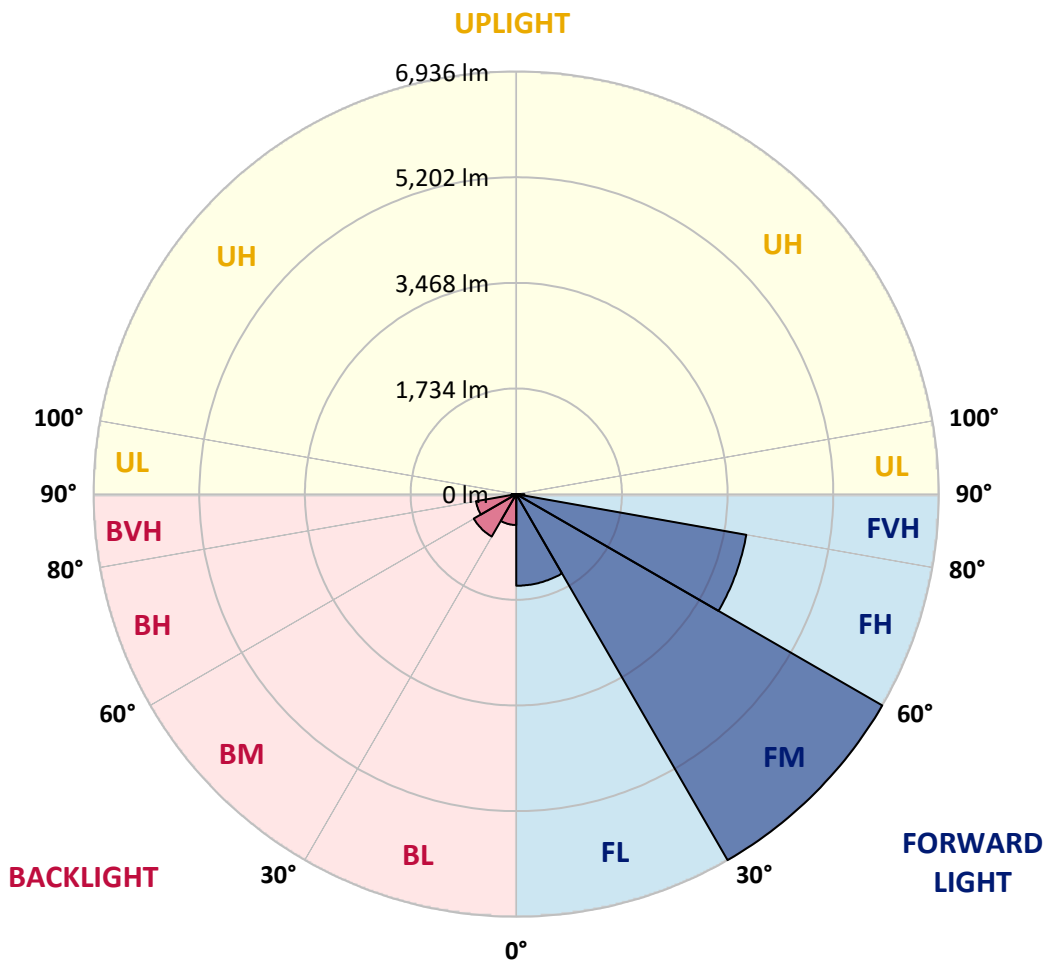


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.2	10.4			
FM (30°-60°)	6935.8	48.0			
FH (60°-80°)	3833.9	26.5			G2/5000
FVH (80°-90°)	132.2	0.9			G2/225
BL (0°-30°)	506.7	3.5	B2/1000		
BM (30°-60°)	804.0	5.6	B1/1000		
BH (60°-80°)	671.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	75.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0
2.5°	2053.6	2028.9	2004.1	1951.4	1933.3	1883.8	1793.2	1692.6	1610.2	1598.7	1541.0
5°	2548.0	2511.8	2503.5	2473.8	2379.9	2284.3	2136.0	1974.5	1773.4	1788.2	1590.4
7.5°	2918.8	2897.4	2852.9	2824.9	2768.9	2642.0	2488.7	2274.4	2019.0	1969.5	1700.9
10°	3199.0	3169.4	3167.7	3143.0	3113.3	2983.1	2866.1	2577.7	2249.7	2182.1	1836.0
12.5°	3340.8	3335.8	3423.2	3423.2	3411.6	3357.2	3156.2	2892.5	2468.9	2445.8	1992.6
15°	3494.0	3452.8	3528.7	3586.3	3616.0	3644.0	3477.6	3199.0	2749.1	2704.6	2160.7
17.5°	3494.0	3490.7	3566.6	3662.2	3817.1	3853.3	3762.7	3480.9	2981.5	2948.5	2345.3
20°	3434.7	3482.5	3535.2	3663.8	3831.9	3978.6	4005.0	3769.3	3238.6	3212.2	2554.6
22.5°	3711.6	3665.5	3719.8	3769.3	3899.5	4122.0	4194.5	4023.1	3508.9	3408.3	2744.1
25°	4176.4	4145.1	4105.5	4033.0	4087.4	4184.6	4295.0	4211.0	3739.6	3627.5	2927.1
27.5°	4629.6	4631.3	4545.6	4387.3	4270.3	4290.1	4420.3	4375.8	3934.1	3884.7	3052.3
30°	5274.0	5234.5	5138.9	4924.6	4695.5	4507.6	4486.2	4529.1	4181.3	4085.7	3232.0
32.5°	5756.9	5765.2	5630.0	5321.8	5008.7	4855.4	4667.5	4685.6	4337.9	4267.0	3375.4
35°	6147.5	6137.7	6042.1	5786.6	5415.8	5231.2	4977.4	4873.5	4702.1	4590.1	3594.6
37.5°	6569.5	6488.7	6333.8	6045.4	5808.0	5552.6	5305.3	5071.3	4944.4	4809.3	3782.5
40°	6739.2	6739.2	6531.6	6399.7	6117.9	5925.0	5765.2	5331.7	5239.4	5213.0	4023.1
42.5°	6618.9	6693.1	6607.4	6457.4	6342.0	6098.1	6055.2	5602.0	5603.7	5550.9	4311.5
45°	6607.4	6505.2	6434.3	6472.2	6417.8	6404.6	6513.4	5976.1	5986.0	5979.4	4698.8
47.5°	6276.1	6229.9	6335.4	6398.1	6442.6	6646.9	6960.1	6422.8	6493.6	6444.2	5145.5
50°	5946.5	5938.2	6004.2	6231.6	6424.4	6760.6	7385.3	7111.7	7344.1	7340.8	5954.7
52.5°	5043.3	5130.6	5389.4	5870.7	6347.0	6915.6	7706.7	7991.8	8435.2	8555.5	6625.5
55°	4179.7	4133.5	4515.9	5214.7	6009.1	6976.6	8066.0	8520.9	9173.5	9260.9	7314.4
57.5°	3251.8	3337.5	3639.1	4309.9	5310.3	6674.9	8329.7	9043.3	10007.5	10075.0	8113.8
60°	2426.1	2437.6	2768.9	3309.5	4380.7	5994.3	8415.4	9579.0	10963.4	11156.2	8951.0
62.5°	1526.2	1595.4	1847.6	2379.9	3297.9	5041.6	8031.4	9903.6	11965.5	12016.5	9794.9
65°	822.4	866.9	1056.5	1391.0	2304.1	3813.8	7012.8	9709.2	12436.8	12740.1	10170.6
67°	608.2	616.4	703.8	888.3	1541.0	2871.0	5847.6	9005.4	12651.1	12871.9	10185.5
67.5°	570.3	581.8	651.0	797.7	1366.3	2643.6	5542.7	8754.9	12555.5	12792.8	10070.1
70°	487.8	491.1	507.6	548.8	766.4	1590.4	3774.2	7174.3	11637.5	11864.9	9260.9
72.5°	433.5	436.8	443.3	451.6	519.2	919.7	2295.9	5521.2	10114.6	10477.2	7990.2
75°	380.7	392.3	395.6	389.0	441.7	598.3	1221.3	4057.7	8250.6	8426.9	6213.5
77.5°	323.0	328.0	334.6	341.2	393.9	446.6	586.7	2739.2	5663.0	5555.9	3360.5
80°	271.9	273.6	278.5	283.5	341.2	341.2	332.9	1480.0	2473.8	2365.1	1135.6
82.5°	194.5	206.0	217.6	230.7	283.5	229.1	217.6	659.3	782.9	745.0	384.0
85°	75.8	92.3	143.4	158.2	179.6	123.6	145.0	285.1	326.3	323.0	143.4
87.5°	13.2	14.8	39.6	61.0	65.9	42.9	69.2	102.2	122.0	131.9	52.7
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°	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0
2.5°	1493.2	1442.1	1381.1	1320.2	1280.6	1218.0	1213.0	1175.1	1170.2	1157.0	1163.6
5°	1504.7	1443.8	1320.2	1222.9	1178.4	1142.2	1150.4	1133.9	1129.0	1120.7	1107.5
7.5°	1595.4	1475.1	1290.5	1206.4	1173.5	1157.0	1157.0	1137.2	1122.4	1132.3	1142.2
10°	1654.7	1489.9	1313.6	1229.5	1203.1	1166.9	1180.1	1155.3	1163.6	1143.8	1143.8
12.5°	1750.3	1574.0	1361.4	1264.1	1221.3	1188.3	1201.5	1173.5	1166.9	1168.5	1163.6
15°	1878.9	1630.0	1382.8	1283.9	1254.2	1213.0	1203.1	1178.4	1153.7	1145.5	1155.3
17.5°	1999.2	1699.2	1397.6	1295.4	1247.6	1201.5	1190.0	1158.6	1150.4	1125.7	1105.9
20°	2142.6	1781.6	1417.4	1305.3	1222.9	1176.8	1147.1	1115.8	1087.8	1072.9	1079.5
22.5°	2238.2	1824.5	1427.3	1285.5	1186.7	1143.8	1081.2	1059.8	1020.2	1003.7	990.5
25°	2394.7	1877.2	1402.6	1231.2	1122.4	1053.2	997.1	967.5	939.4	918.0	911.4
27.5°	2434.3	1916.8	1344.9	1138.9	1020.2	947.7	899.9	863.6	845.5	812.5	805.9
30°	2549.7	1877.2	1259.2	1026.8	923.0	848.8	801.0	774.6	731.8	723.5	705.4
32.5°	2623.8	1888.8	1150.4	918.0	810.9	745.0	713.6	687.3	675.7	636.2	626.3
35°	2747.4	1849.2	1040.0	817.5	718.6	667.5	641.1	632.9	595.0	576.8	560.4
37.5°	2826.6	1826.1	929.5	703.8	618.1	596.6	604.9	570.3	524.1	489.5	478.0
40°	2965.0	1817.9	804.3	609.8	548.8	543.9	570.3	504.3	420.3	390.6	374.1
42.5°	3164.4	1761.9	707.0	525.8	494.4	515.9	520.8	420.3	372.5	347.8	336.2
45°	3355.6	1773.4	611.5	435.1	430.2	461.5	449.9	356.0	328.0	309.8	319.7
47.5°	3723.1	1831.1	517.5	362.6	387.3	417.0	349.4	318.1	291.7	278.5	280.2
50°	4291.7	1887.1	435.1	331.3	365.9	377.4	300.0	288.4	286.8	260.4	258.8
52.5°	4632.9	1865.7	420.3	370.8	392.3	377.4	326.3	318.1	304.9	293.4	280.2
55°	5175.1	1928.3	451.6	433.5	445.0	362.6	365.9	362.6	352.7	323.0	331.3
57.5°	5607.0	1969.5	492.8	484.6	478.0	377.4	382.4	384.0	377.4	364.2	375.8
60°	6200.3	2051.9	535.6	537.3	538.9	410.4	418.6	428.5	426.9	421.9	425.2
62.5°	6564.5	2014.0	583.4	609.8	601.6	478.0	476.3	482.9	482.9	491.1	496.1
65°	6510.1	1873.9	608.2	674.1	631.2	527.4	527.4	530.7	532.3	548.8	550.5
67°	6183.8	1623.4	595.0	684.0	631.2	547.2	547.2	550.5	538.9	581.8	568.6
67.5°	6032.2	1549.2	583.4	675.7	626.3	545.5	545.5	547.2	537.3	578.5	565.3
70°	5246.0	1150.4	502.7	598.3	580.1	530.7	530.7	520.8	512.6	567.0	555.4
72.5°	4478.0	835.6	403.8	509.3	524.1	510.9	514.2	489.5	466.4	504.3	494.4
75°	3429.8	614.8	314.8	392.3	443.3	478.0	499.4	436.8	407.1	417.0	398.8
77.5°	1913.5	400.5	248.9	290.1	337.9	445.0	479.6	393.9	332.9	321.4	321.4
80°	649.4	234.0	182.9	215.9	232.4	393.9	448.3	319.7	262.1	250.5	242.3
82.5°	245.6	143.4	125.3	148.3	148.3	311.5	365.9	245.6	197.8	255.5	260.4
85°	112.1	85.7	82.4	85.7	85.7	191.2	258.8	159.9	178.0	153.3	135.1
87.5°	44.5	41.2	37.9	36.3	29.7	33.0	89.0	42.9	80.8	21.4	19.8
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)