

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: P477025

Luminaire Tested: **IFLD-S-SA3A-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

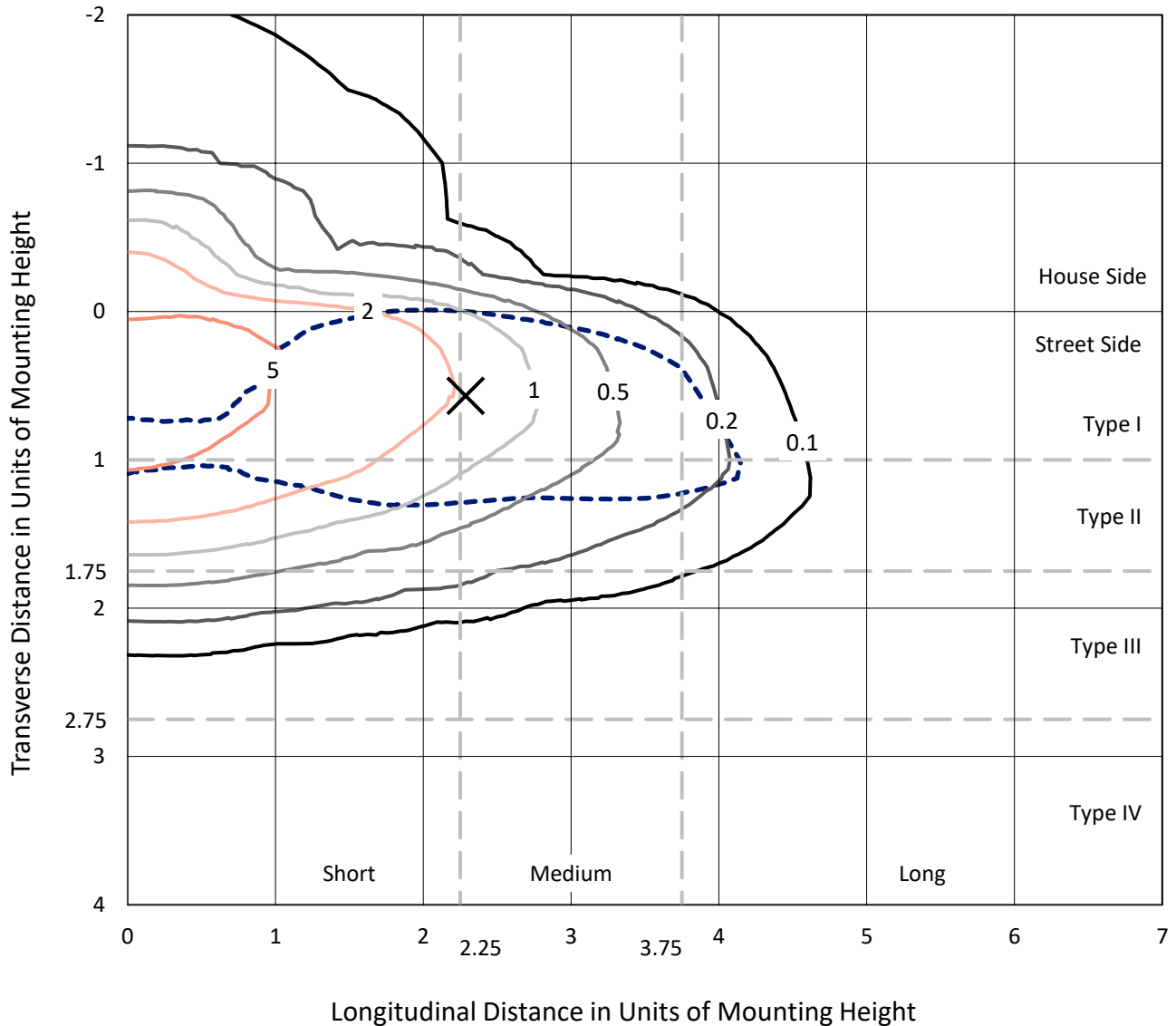
Lumens per Lamp: N/A
Luminaire Lumens: 14152.7 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

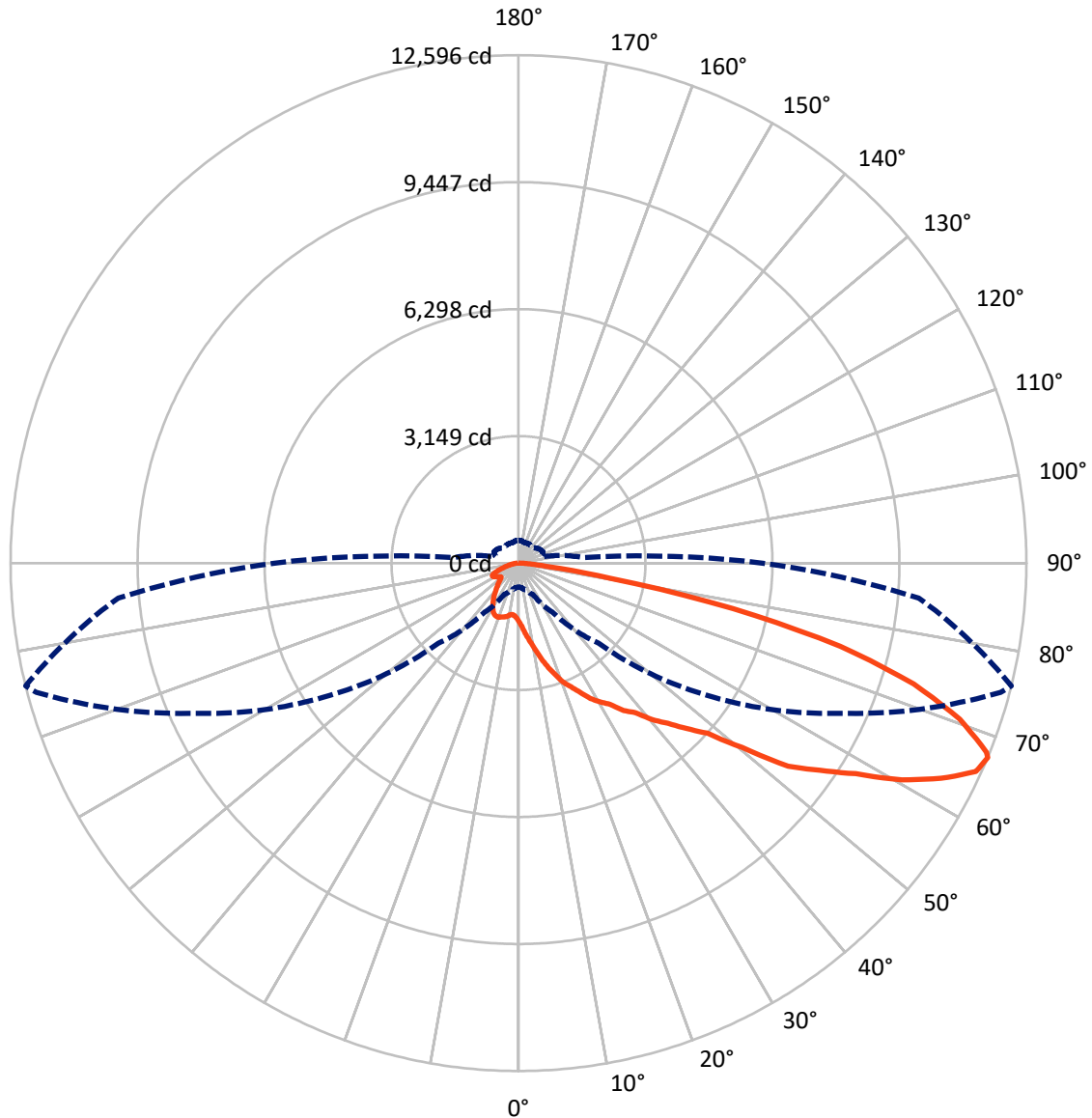
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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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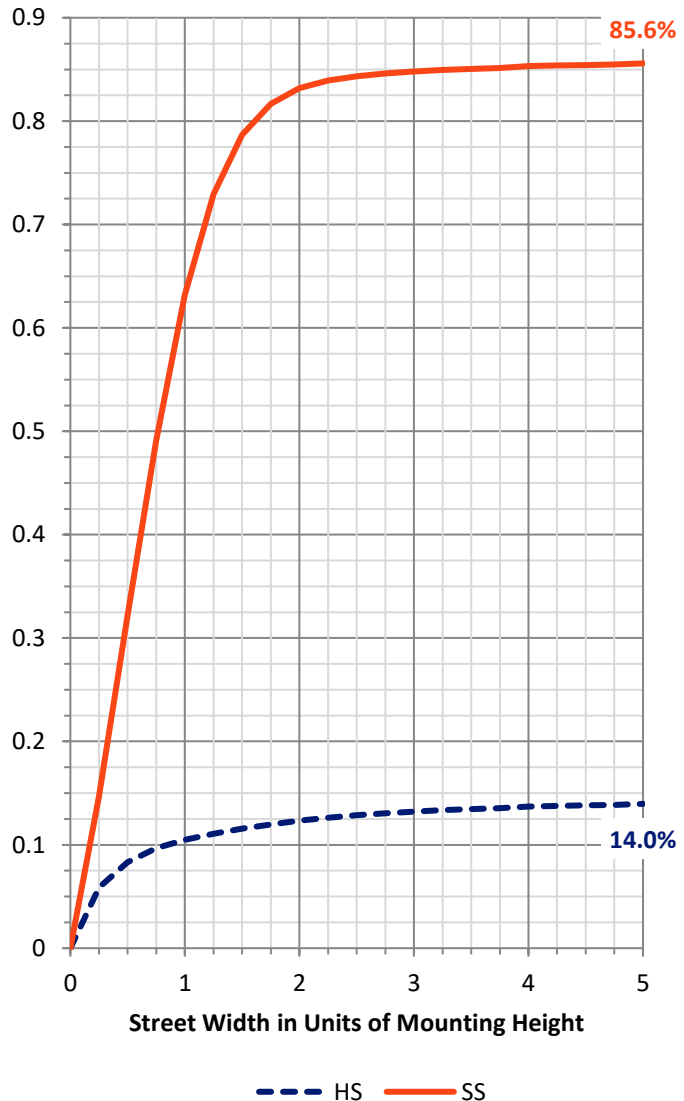
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2013.4	0.0	2013.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12139.3	0.0	12139.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	14152.7	0.0	14152.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.2
10°-20°	629.2	4.4
20°-30°	1169.8	8.3
30°-40°	1854.4	13.1
40°-50°	2564.8	18.1
50°-60°	3154.8	22.3
60°-70°	2935.7	20.7
70°-80°	1473.1	10.4
80°-90°	203.1	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°	14152.7	100.0
0°-180°	14152.7	100.0

Coefficient of Utilization



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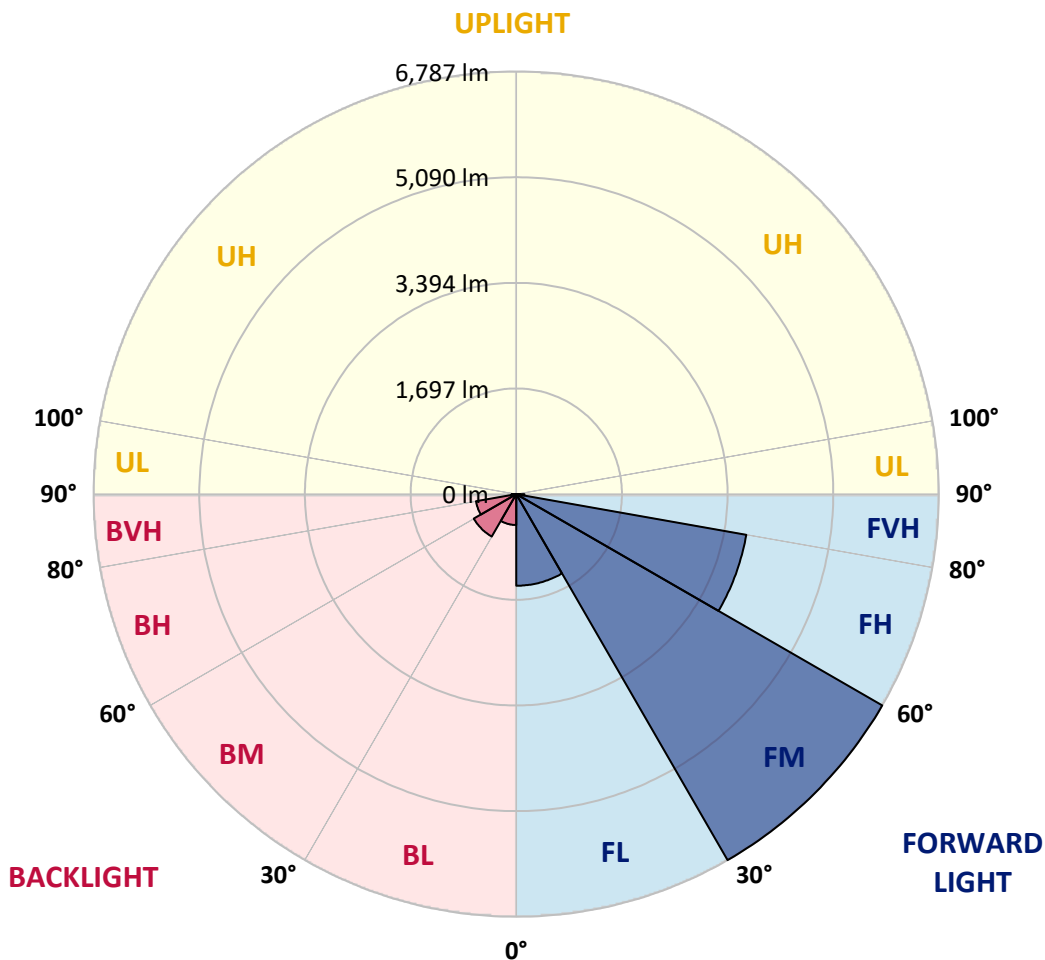
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1470.9	10.4			
FM (30°-60°)	6787.2	48.0			
FH (60°-80°)	3751.8	26.5			G2/5000
FVH (80°-90°)	129.4	0.9			G2/225
BL (0°-30°)	495.8	3.5	B1/500		
BM (30°-60°)	786.8	5.6	B1/1000		
BH (60°-80°)	657.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	73.7	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°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	2009.6	1985.4	1961.2	1909.6	1891.8	1843.5	1754.7	1656.4	1575.7	1564.4	1508.0
5°	2493.4	2457.9	2449.9	2420.8	2328.9	2235.4	2090.2	1932.2	1735.4	1749.9	1556.4
7.5°	2856.3	2835.3	2791.8	2764.4	2709.5	2585.3	2435.4	2225.7	1975.7	1927.3	1664.4
10°	3130.5	3101.5	3099.8	3075.6	3046.6	2919.2	2804.7	2522.4	2201.5	2135.4	1796.7
12.5°	3269.2	3264.3	3349.8	3349.8	3338.5	3285.3	3088.5	2830.5	2416.0	2393.4	1949.9
15°	3419.2	3378.9	3453.0	3509.5	3538.5	3565.9	3403.0	3130.5	2690.2	2646.6	2114.4
17.5°	3419.2	3416.0	3490.1	3583.7	3735.3	3770.8	3682.1	3406.3	2917.6	2885.3	2295.0
20°	3361.1	3407.9	3459.5	3585.3	3749.8	3893.3	3919.2	3688.5	3169.2	3143.4	2499.9
22.5°	3632.1	3586.9	3640.1	3688.5	3815.9	4033.7	4104.6	3936.9	3433.7	3335.3	2685.3
25°	4086.9	4056.2	4017.5	3946.6	3999.8	4094.9	4203.0	4120.8	3659.5	3549.8	2864.4
27.5°	4530.4	4532.0	4448.2	4293.3	4178.8	4198.2	4325.6	4282.0	3849.8	3801.4	2986.9
30°	5161.0	5122.3	5028.8	4819.1	4594.9	4411.1	4390.1	4432.0	4091.7	3998.2	3162.7
32.5°	5633.6	5641.6	5509.4	5207.8	4901.4	4751.4	4567.5	4585.2	4244.9	4175.6	3303.1
35°	6015.8	6006.1	5912.6	5662.6	5299.7	5119.1	4870.7	4769.1	4601.4	4491.7	3517.6
37.5°	6428.7	6349.7	6198.1	5915.8	5683.6	5433.6	5191.7	4962.6	4838.5	4706.2	3701.4
40°	6594.8	6594.8	6391.6	6262.6	5986.8	5798.1	5641.6	5217.5	5127.2	5101.3	3936.9
42.5°	6477.1	6549.7	6465.8	6319.0	6206.1	5967.4	5925.5	5482.0	5483.6	5432.0	4219.1
45°	6465.8	6365.8	6296.4	6333.5	6280.3	6267.4	6373.9	5848.1	5857.8	5851.3	4598.1
47.5°	6141.6	6096.5	6199.7	6261.0	6304.5	6504.5	6810.9	6285.2	6354.5	6306.1	5035.2
50°	5819.1	5811.0	5875.5	6098.1	6286.8	6615.8	7227.0	6959.3	7186.7	7183.5	5827.1
52.5°	4935.2	5020.7	5273.9	5744.9	6211.0	6767.4	7541.5	7820.6	8254.4	8372.1	6483.5
55°	4090.1	4045.0	4419.1	5103.0	5880.3	6827.1	7893.1	8338.3	8977.0	9062.4	7157.7
57.5°	3182.1	3266.0	3561.1	4217.5	5196.5	6531.9	8151.2	8849.5	9793.0	9859.2	7939.9
60°	2374.1	2385.4	2709.5	3238.5	4286.9	5865.8	8235.1	9373.7	10728.5	10917.2	8759.2
62.5°	1493.5	1561.2	1808.0	2328.9	3227.3	4933.6	7859.3	9691.4	11709.1	11759.1	9585.0
65°	804.8	848.3	1033.8	1361.2	2254.7	3732.1	6862.5	9501.1	12170.3	12467.1	9952.7
67°	595.1	603.2	688.7	869.3	1508.0	2809.5	5722.3	8812.4	12380.0	12596.1	9967.2
67.5°	558.0	569.3	637.1	780.6	1337.0	2587.0	5423.9	8567.3	12286.5	12518.7	9854.3
70°	477.4	480.6	496.7	537.1	750.0	1556.4	3693.4	7020.6	11388.1	11610.7	9062.4
72.5°	424.2	427.4	433.8	441.9	508.0	900.0	2246.7	5402.9	9897.9	10252.7	7818.9
75°	372.6	383.9	387.1	380.6	432.2	585.5	1195.1	3970.8	8073.8	8246.3	6080.3
77.5°	316.1	321.0	327.4	333.9	385.5	437.1	574.2	2680.5	5541.6	5436.8	3288.5
80°	266.1	267.7	272.6	277.4	333.9	333.9	325.8	1448.3	2420.8	2314.4	1111.2
82.5°	190.3	201.6	212.9	225.8	277.4	224.2	212.9	645.1	766.1	729.0	375.8
85°	74.2	90.3	140.3	154.8	175.8	121.0	141.9	279.0	319.3	316.1	140.3
87.5°	12.9	14.5	38.7	59.7	64.5	41.9	67.7	100.0	119.3	129.0	51.6
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°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1461.2	1411.2	1351.5	1291.9	1253.2	1191.9	1187.0	1149.9	1145.1	1132.2	1138.7
5°	1472.5	1412.8	1291.9	1196.7	1153.2	1117.7	1125.7	1109.6	1104.8	1096.7	1083.8
7.5°	1561.2	1443.5	1262.8	1180.6	1148.3	1132.2	1132.2	1112.8	1098.3	1108.0	1117.7
10°	1619.3	1458.0	1285.4	1203.2	1177.4	1141.9	1154.8	1130.6	1138.7	1119.3	1119.3
12.5°	1712.8	1540.2	1332.2	1237.0	1195.1	1162.8	1175.7	1148.3	1141.9	1143.5	1138.7
15°	1838.6	1595.1	1353.2	1256.4	1227.4	1187.0	1177.4	1153.2	1129.0	1120.9	1130.6
17.5°	1956.3	1662.8	1367.7	1267.7	1220.9	1175.7	1164.5	1133.8	1125.7	1101.6	1082.2
20°	2096.7	1743.5	1387.0	1277.4	1196.7	1151.6	1122.5	1091.9	1064.5	1049.9	1056.4
22.5°	2190.2	1785.4	1396.7	1258.0	1161.2	1119.3	1058.0	1037.0	998.3	982.2	969.3
25°	2343.4	1837.0	1372.5	1204.8	1098.3	1030.6	975.8	946.7	919.3	898.3	891.9
27.5°	2382.1	1875.7	1316.1	1114.5	998.3	927.4	880.6	845.1	827.4	795.1	788.7
30°	2495.0	1837.0	1232.2	1004.8	903.2	830.6	783.8	758.0	716.1	708.0	690.3
32.5°	2567.6	1848.3	1125.7	898.3	793.5	729.0	698.4	672.5	661.3	622.5	612.9
35°	2688.6	1809.6	1017.7	800.0	703.2	653.2	627.4	619.3	582.2	564.5	548.4
37.5°	2766.0	1787.0	909.6	688.7	604.8	583.8	591.9	558.0	512.9	479.0	467.7
40°	2901.5	1778.9	787.1	596.7	537.1	532.2	558.0	493.5	411.3	382.2	366.1
42.5°	3096.6	1724.1	691.9	514.5	483.8	504.8	509.7	411.3	364.5	340.3	329.0
45°	3283.7	1735.4	598.4	425.8	420.9	451.6	440.3	348.4	321.0	303.2	312.9
47.5°	3643.4	1791.8	506.4	354.8	379.0	408.0	341.9	311.3	285.5	272.6	274.2
50°	4199.8	1846.7	425.8	324.2	358.0	369.3	293.5	282.2	280.6	254.8	253.2
52.5°	4533.6	1825.7	411.3	362.9	383.9	369.3	319.3	311.3	298.4	287.1	274.2
55°	5064.3	1887.0	441.9	424.2	435.5	354.8	358.0	354.8	345.1	316.1	324.2
57.5°	5486.8	1927.3	482.2	474.2	467.7	369.3	374.2	375.8	369.3	356.4	367.7
60°	6067.4	2008.0	524.2	525.8	527.4	401.6	409.7	419.3	417.7	412.9	416.1
62.5°	6423.9	1970.9	570.9	596.7	588.7	467.7	466.1	472.6	472.6	480.6	485.5
65°	6370.6	1833.8	595.1	659.6	617.7	516.1	516.1	519.3	520.9	537.1	538.7
67°	6051.3	1588.6	582.2	669.3	617.7	535.5	535.5	538.7	527.4	569.3	556.4
67.5°	5902.9	1516.1	570.9	661.3	612.9	533.8	533.8	535.5	525.8	566.1	553.2
70°	5133.6	1125.7	491.9	585.5	567.7	519.3	519.3	509.7	501.6	554.8	543.5
72.5°	4382.0	817.7	395.1	498.4	512.9	500.0	503.2	479.0	456.4	493.5	483.8
75°	3356.3	601.6	308.0	383.9	433.8	467.7	488.7	427.4	398.4	408.0	390.3
77.5°	1872.5	391.9	243.5	283.9	330.6	435.5	469.3	385.5	325.8	314.5	314.5
80°	635.5	229.0	179.0	211.3	227.4	385.5	438.7	312.9	256.4	245.1	237.1
82.5°	240.3	140.3	122.6	145.2	145.2	304.8	358.0	240.3	193.5	250.0	254.8
85°	109.7	83.9	80.6	83.9	83.9	187.1	253.2	156.4	174.2	150.0	132.3
87.5°	43.5	40.3	37.1	35.5	29.0	32.3	87.1	41.9	79.0	21.0	19.4
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)