

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: P477022

Luminaire Tested: **IFLD-S-SA2C-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

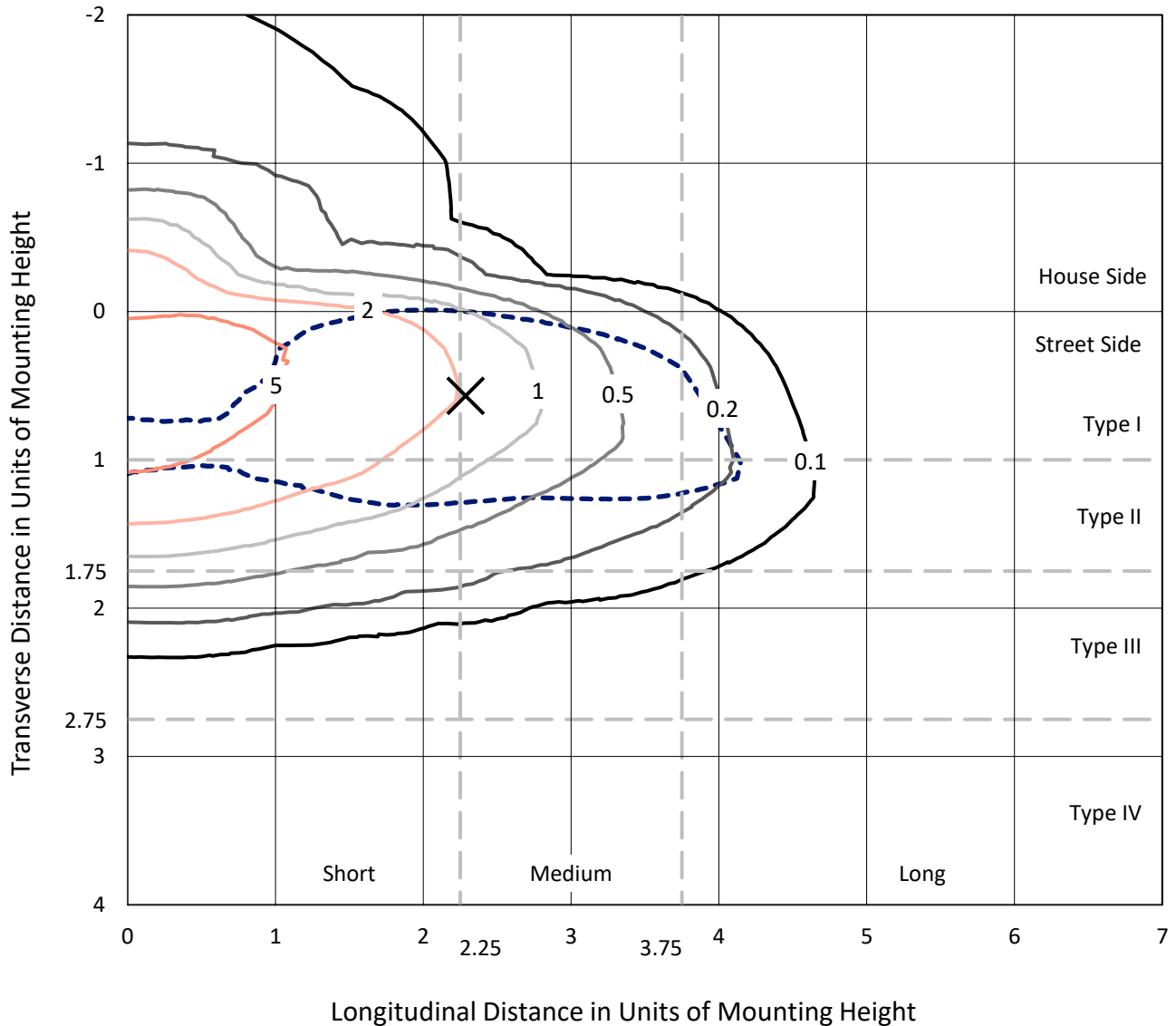
Lumens per Lamp: N/A
Luminaire Lumens: 14620.6 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

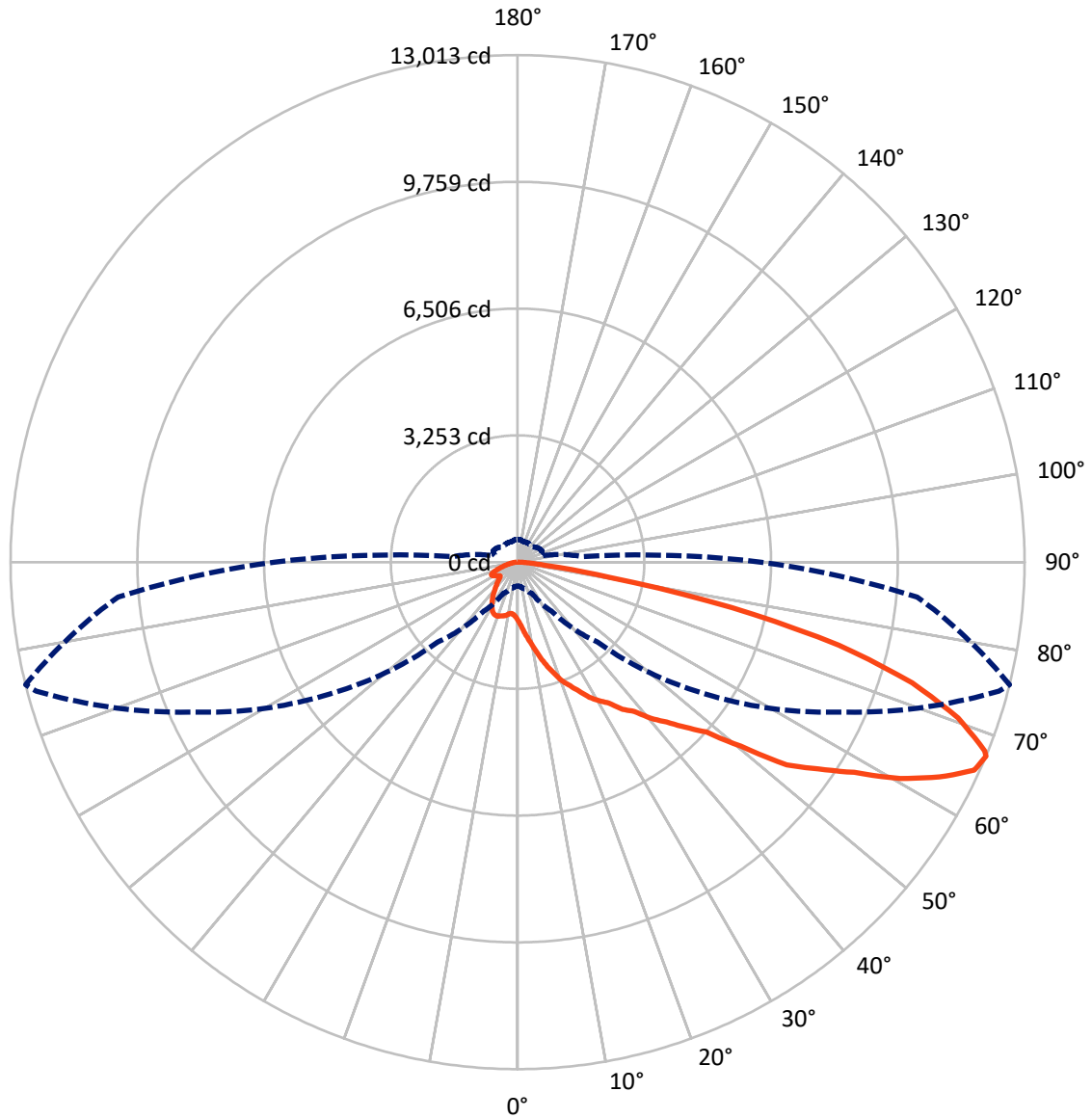
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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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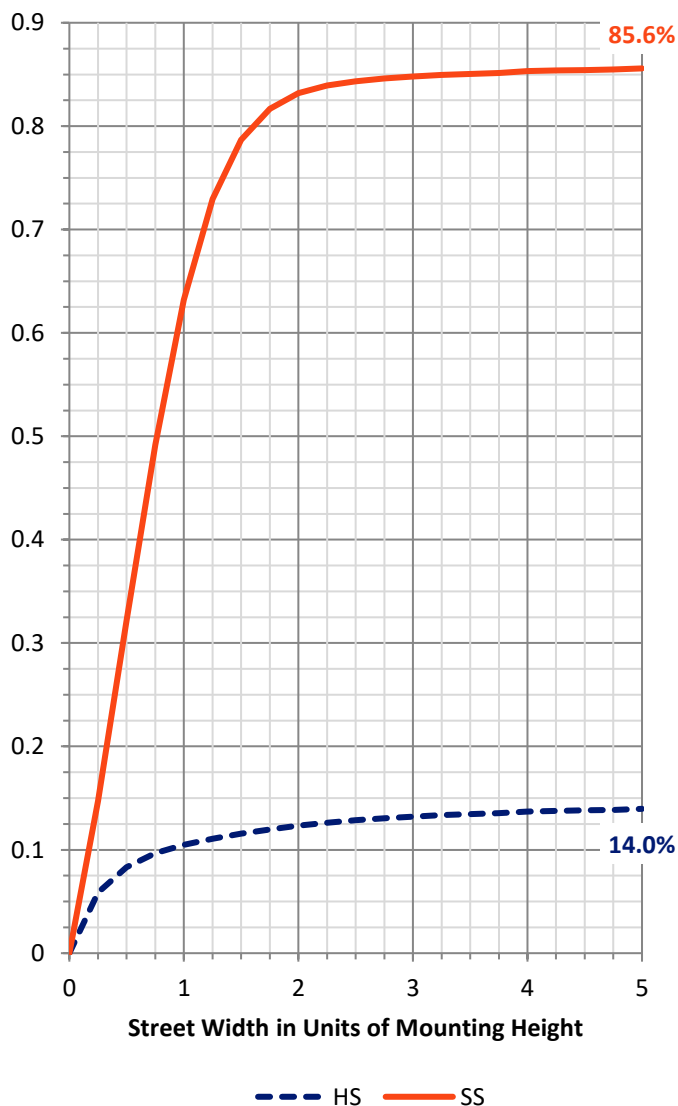
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2080.0	0.0	2080.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12540.6	0.0	12540.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	14620.6	0.0	14620.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.2
10°-20°	650.0	4.4
20°-30°	1208.5	8.3
30°-40°	1915.7	13.1
40°-50°	2649.6	18.1
50°-60°	3259.1	22.3
60°-70°	3032.8	20.7
70°-80°	1521.8	10.4
80°-90°	209.8	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°	14620.6	100.0
0°-180°	14620.6	100.0

Coefficient of Utilization



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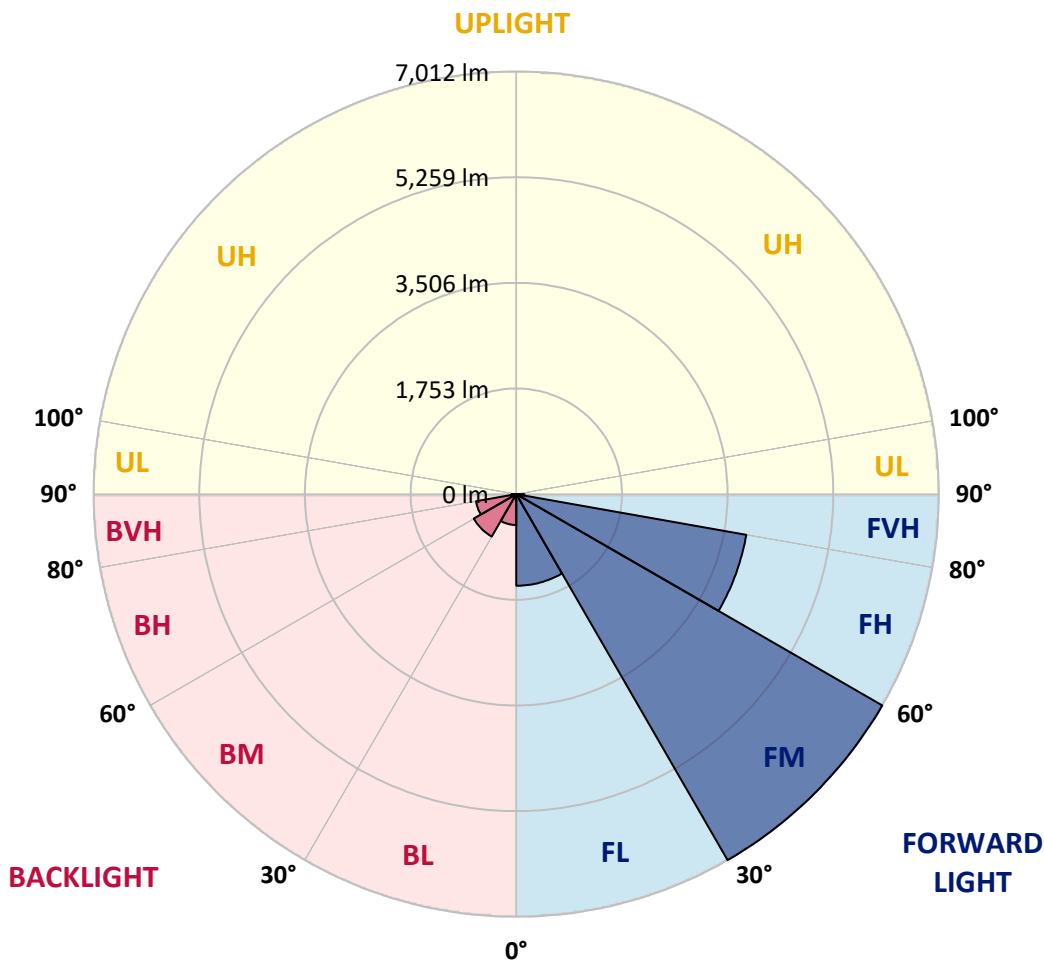
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.6	10.4			
FM (30°-60°)	7011.6	48.0			
FH (60°-80°)	3875.8	26.5			G2/5000
FVH (80°-90°)	133.7	0.9			G2/225
BL (0°-30°)	512.2	3.5	B2/1000		
BM (30°-60°)	812.8	5.6	B1/1000		
BH (60°-80°)	678.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	76.1	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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	2076.0	2051.0	2026.0	1972.7	1954.4	1904.4	1812.8	1711.1	1627.8	1616.2	1557.8
5°	2575.9	2539.2	2530.9	2500.9	2405.9	2309.3	2159.3	1996.0	1792.8	1807.8	1607.8
7.5°	2950.7	2929.1	2884.1	2855.8	2799.1	2670.8	2515.9	2299.3	2041.0	1991.0	1719.5
10°	3234.0	3204.0	3202.3	3177.3	3147.3	3015.7	2897.4	2605.8	2274.3	2206.0	1856.1
12.5°	3377.3	3372.3	3460.6	3460.6	3448.9	3393.9	3190.7	2924.1	2495.9	2472.6	2014.4
15°	3532.2	3490.6	3567.2	3625.5	3655.5	3683.8	3515.6	3234.0	2779.1	2734.1	2184.3
17.5°	3532.2	3528.9	3605.5	3702.2	3858.8	3895.4	3803.8	3518.9	3014.0	2980.7	2370.9
20°	3472.2	3520.6	3573.9	3703.8	3873.8	4022.1	4048.7	3810.5	3274.0	3247.3	2582.5
22.5°	3752.1	3705.5	3760.5	3810.5	3942.1	4167.0	4240.3	4067.1	3547.2	3445.6	2774.1
25°	4222.0	4190.3	4150.4	4077.0	4132.0	4230.3	4342.0	4257.0	3780.5	3667.2	2959.1
27.5°	4680.2	4681.9	4595.2	4435.3	4317.0	4337.0	4468.6	4423.6	3977.1	3927.1	3085.7
30°	5331.7	5291.7	5195.0	4978.4	4746.8	4556.9	4535.2	4578.6	4227.0	4130.4	3267.3
32.5°	5819.8	5828.2	5691.5	5380.0	5063.4	4908.5	4718.5	4736.8	4385.3	4313.6	3412.3
35°	6214.7	6204.7	6108.1	5849.8	5474.9	5288.3	5031.7	4926.8	4753.5	4640.2	3633.9
37.5°	6641.2	6559.6	6403.0	6111.4	5871.5	5613.2	5363.3	5126.7	4998.4	4861.8	3823.8
40°	6812.9	6812.9	6602.9	6469.6	6184.7	5989.8	5828.2	5390.0	5296.7	5270.0	4067.1
42.5°	6691.2	6766.2	6679.6	6527.9	6411.3	6164.7	6121.4	5663.2	5664.9	5611.6	4358.6
45°	6679.6	6576.3	6504.6	6542.9	6488.0	6474.6	6584.6	6041.4	6051.4	6044.8	4750.2
47.5°	6344.7	6298.0	6404.6	6468.0	6512.9	6719.5	7036.1	6493.0	6564.6	6514.6	5201.7
50°	6011.4	6003.1	6069.8	6299.7	6494.6	6834.5	7466.0	7189.4	7424.3	7421.0	6019.8
52.5°	5098.4	5186.7	5448.3	5934.8	6416.3	6991.1	7790.9	8079.1	8527.3	8648.9	6697.9
55°	4225.3	4178.7	4565.2	5271.7	6074.8	7052.8	8154.1	8614.0	9273.7	9362.0	7394.3
57.5°	3287.3	3373.9	3678.8	4357.0	5368.3	6747.9	8420.7	9142.1	10116.8	10185.1	8202.4
60°	2452.6	2464.2	2799.1	3345.6	4428.6	6059.8	8507.3	9683.6	11083.2	11278.1	9048.8
62.5°	1542.8	1612.8	1867.7	2405.9	3333.9	5096.7	8119.1	10011.8	12096.2	12147.8	9901.9
65°	831.4	876.4	1068.0	1406.2	2329.3	3855.5	7089.4	9815.2	12572.7	12879.3	10281.8
67°	614.8	623.1	711.4	898.1	1557.8	2902.4	5911.5	9103.8	12789.3	13012.6	10296.8
67.5°	576.5	588.1	658.1	806.4	1381.2	2672.5	5603.2	8850.5	12692.7	12932.6	10180.1
70°	493.2	496.5	513.2	554.8	774.8	1607.8	3815.5	7252.7	11764.6	11994.6	9362.0
72.5°	438.2	441.5	448.2	456.5	524.8	929.7	2320.9	5581.6	10225.1	10591.7	8077.5
75°	384.9	396.5	399.9	393.2	446.5	604.8	1234.6	4102.0	8340.7	8519.0	6281.4
77.5°	326.6	331.6	338.2	344.9	398.2	451.5	593.1	2769.1	5724.9	5616.6	3397.3
80°	274.9	276.6	281.6	286.6	344.9	344.9	336.6	1496.2	2500.9	2390.9	1148.0
82.5°	196.6	208.3	219.9	233.3	286.6	231.6	219.9	666.5	791.4	753.1	388.2
85°	76.6	93.3	145.0	159.9	181.6	125.0	146.6	288.2	329.9	326.6	145.0
87.5°	13.3	15.0	40.0	61.6	66.6	43.3	70.0	103.3	123.3	133.3	53.3
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1509.5	1457.9	1396.2	1334.6	1294.6	1231.3	1226.3	1188.0	1183.0	1169.6	1176.3
5°	1521.2	1459.5	1334.6	1236.3	1191.3	1154.6	1163.0	1146.3	1141.3	1133.0	1119.6
7.5°	1612.8	1491.2	1304.6	1219.6	1186.3	1169.6	1169.6	1149.6	1134.6	1144.6	1154.6
10°	1672.8	1506.2	1327.9	1242.9	1216.3	1179.6	1193.0	1168.0	1176.3	1156.3	1156.3
12.5°	1769.4	1591.2	1376.2	1277.9	1234.6	1201.3	1214.6	1186.3	1179.6	1181.3	1176.3
15°	1899.4	1647.8	1397.9	1297.9	1267.9	1226.3	1216.3	1191.3	1166.3	1158.0	1168.0
17.5°	2021.0	1717.8	1412.9	1309.6	1261.3	1214.6	1203.0	1171.3	1163.0	1138.0	1118.0
20°	2166.0	1801.1	1432.9	1319.6	1236.3	1189.6	1159.6	1128.0	1099.7	1084.7	1091.3
22.5°	2262.6	1844.4	1442.9	1299.6	1199.6	1156.3	1093.0	1071.3	1031.3	1014.7	1001.4
25°	2420.9	1897.7	1417.9	1244.6	1134.6	1064.7	1008.0	978.0	949.7	928.0	921.4
27.5°	2460.9	1937.7	1359.6	1151.3	1031.3	958.0	909.7	873.1	854.7	821.4	814.7
30°	2577.5	1897.7	1272.9	1038.0	933.0	858.1	809.7	783.1	739.8	731.4	713.1
32.5°	2652.5	1909.4	1163.0	928.0	819.7	753.1	721.4	694.8	683.1	643.1	633.1
35°	2777.5	1869.4	1051.3	826.4	726.4	674.8	648.1	639.8	601.5	583.1	566.5
37.5°	2857.4	1846.1	939.7	711.4	624.8	603.1	611.5	576.5	529.8	494.8	483.2
40°	2997.4	1837.8	813.1	616.5	554.8	549.8	576.5	509.8	424.9	394.9	378.2
42.5°	3199.0	1781.1	714.8	531.5	499.8	521.5	526.5	424.9	376.5	351.6	339.9
45°	3392.3	1792.8	618.1	439.9	434.9	466.5	454.9	359.9	331.6	313.2	323.2
47.5°	3763.8	1851.1	523.2	366.6	391.5	421.5	353.2	321.6	294.9	281.6	283.2
50°	4338.6	1907.7	439.9	334.9	369.9	381.5	303.2	291.6	289.9	263.3	261.6
52.5°	4683.5	1886.1	424.9	374.9	396.5	381.5	329.9	321.6	308.2	296.6	283.2
55°	5231.7	1949.4	456.5	438.2	449.9	366.6	369.9	366.6	356.6	326.6	334.9
57.5°	5668.2	1991.0	498.2	489.8	483.2	381.5	386.5	388.2	381.5	368.2	379.9
60°	6268.0	2074.3	541.5	543.2	544.8	414.9	423.2	433.2	431.5	426.5	429.9
62.5°	6636.2	2036.0	589.8	616.5	608.1	483.2	481.5	488.2	488.2	496.5	501.5
65°	6581.3	1894.4	614.8	681.5	638.1	533.2	533.2	536.5	538.2	554.8	556.5
67°	6251.4	1641.1	601.5	691.4	638.1	553.2	553.2	556.5	544.8	588.1	574.8
67.5°	6098.1	1566.2	589.8	683.1	633.1	551.5	551.5	553.2	543.2	584.8	571.5
70°	5303.3	1163.0	508.2	604.8	586.5	536.5	536.5	526.5	518.2	573.2	561.5
72.5°	4526.9	844.7	408.2	514.8	529.8	516.5	519.8	494.8	471.5	509.8	499.8
75°	3467.2	621.5	318.2	396.5	448.2	483.2	504.8	441.5	411.5	421.5	403.2
77.5°	1934.4	404.9	251.6	293.2	341.6	449.9	484.8	398.2	336.6	324.9	324.9
80°	656.5	236.6	184.9	218.3	234.9	398.2	453.2	323.2	264.9	253.3	244.9
82.5°	248.3	145.0	126.6	150.0	150.0	314.9	369.9	248.3	199.9	258.3	263.3
85°	113.3	86.6	83.3	86.6	86.6	193.3	261.6	161.6	179.9	155.0	136.6
87.5°	45.0	41.7	38.3	36.7	30.0	33.3	90.0	43.3	81.6	21.7	20.0
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)