

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: P476984

Luminaire Tested: **IFLD-S-SA2D-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476984
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

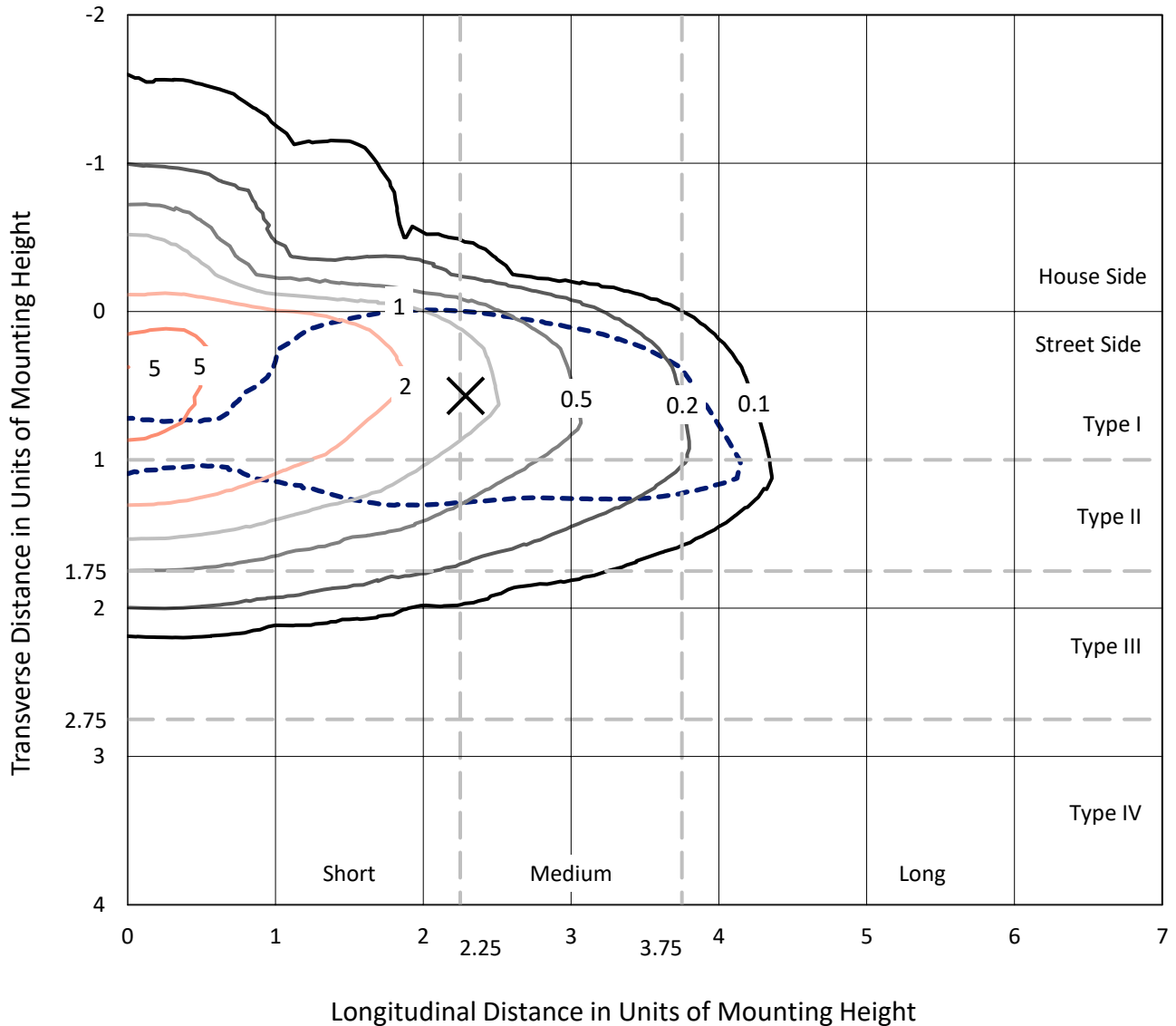
Lumens per Lamp: N/A
Luminaire Lumens: 15727.4 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

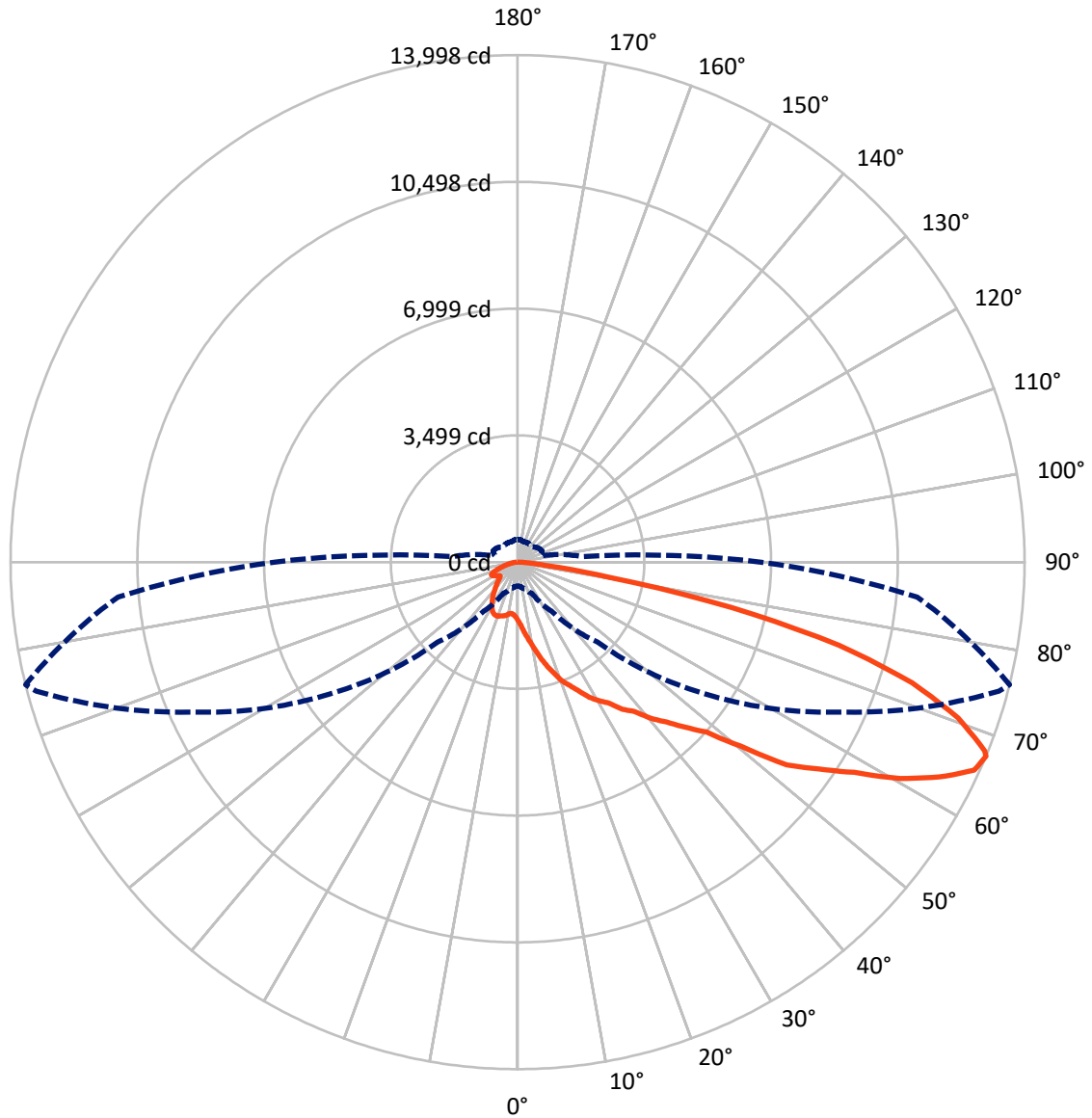
✕ Max cd
 - - - 1/2 Max cd



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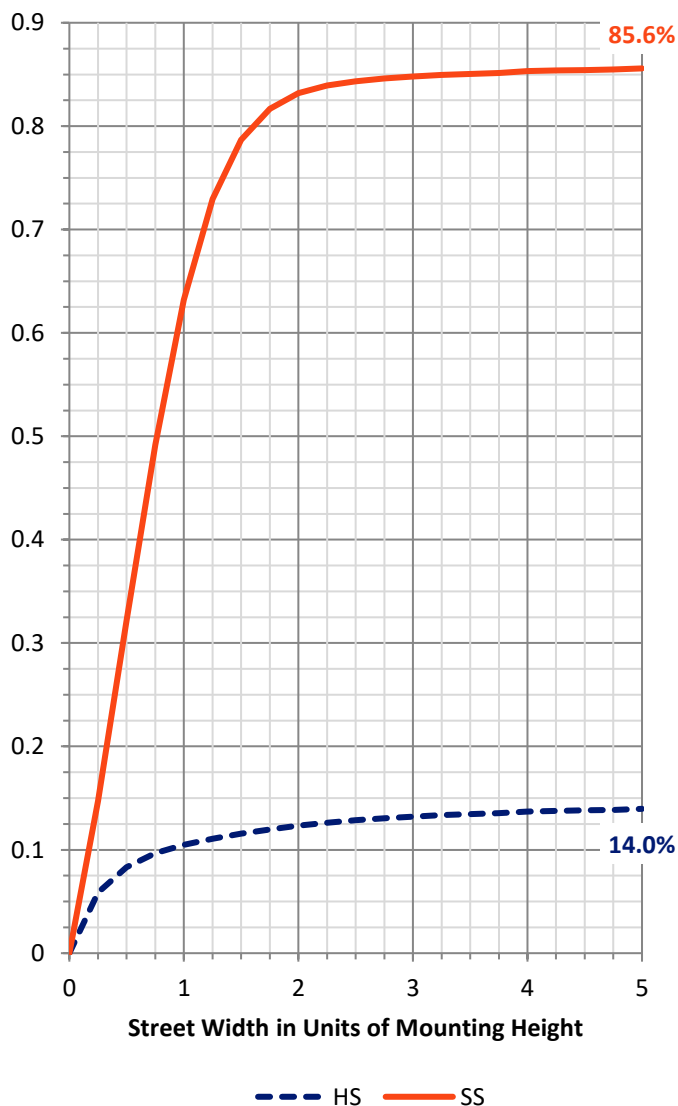
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.4	0.0	2237.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13490.0	0.0	13490.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	15727.4	0.0	15727.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	1.2
10°-20°	699.2	4.4
20°-30°	1299.9	8.3
30°-40°	2060.7	13.1
40°-50°	2850.1	18.1
50°-60°	3505.9	22.3
60°-70°	3262.4	20.7
70°-80°	1637.0	10.4
80°-90°	225.7	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°	15727.4	100.0
0°-180°	15727.4	100.0

Coefficient of Utilization



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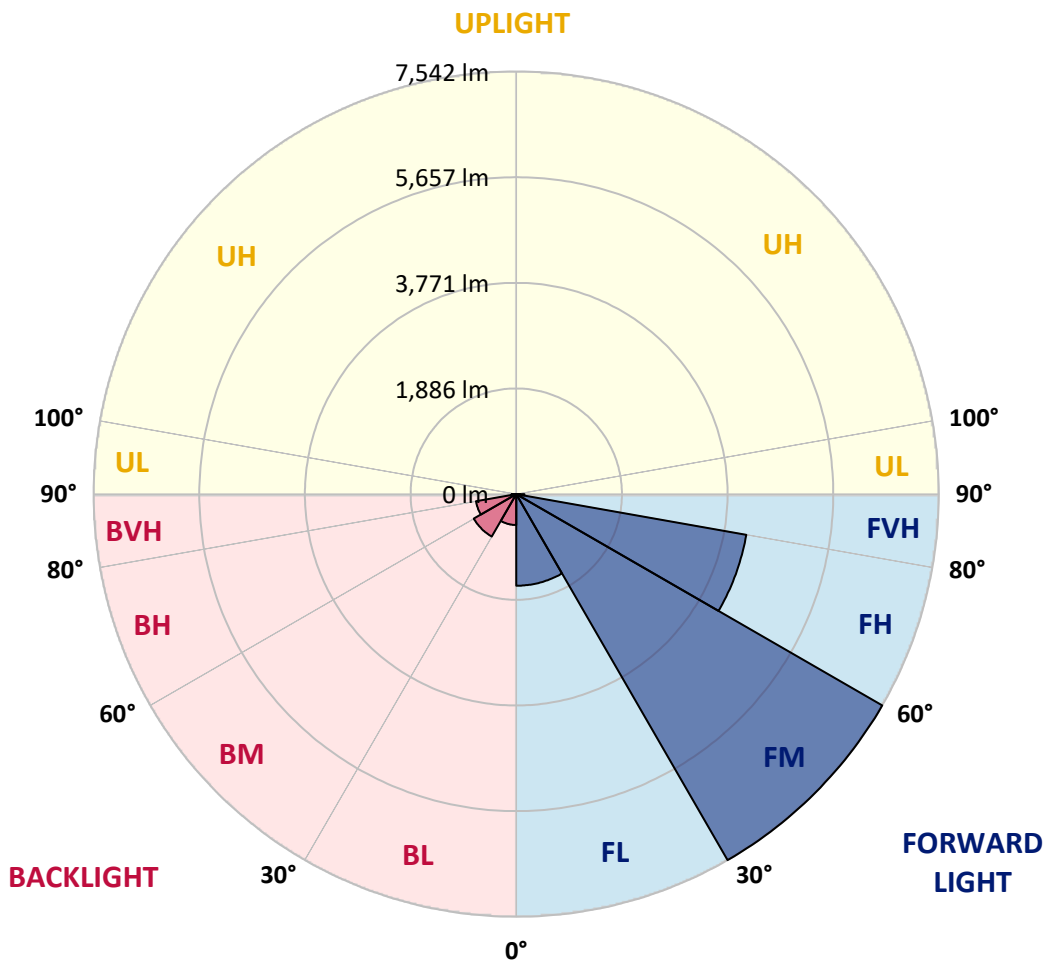
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.6	10.4			
FM (30°-60°)	7542.4	48.0			
FH (60°-80°)	4169.2	26.5			G2/5000
FVH (80°-90°)	143.8	0.9			G2/225
BL (0°-30°)	551.0	3.5	B2/1000		
BM (30°-60°)	874.3	5.6	B1/1000		
BH (60°-80°)	730.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	81.9	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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	2233.2	2206.3	2179.4	2122.1	2102.3	2048.6	1950.0	1840.7	1751.1	1738.5	1675.8
5°	2770.9	2731.4	2722.5	2690.2	2588.0	2484.1	2322.8	2147.1	1928.5	1944.6	1729.5
7.5°	3174.1	3150.8	3102.4	3072.0	3011.0	2873.0	2706.3	2473.3	2195.5	2141.8	1849.6
10°	3478.8	3446.5	3444.7	3417.9	3385.6	3244.0	3116.8	2803.1	2446.5	2373.0	1996.6
12.5°	3632.9	3627.6	3722.6	3722.6	3710.0	3650.9	3432.2	3145.4	2684.8	2659.7	2166.9
15°	3799.6	3754.8	3837.3	3900.0	3932.2	3962.7	3781.7	3478.8	2989.5	2941.1	2349.7
17.5°	3799.6	3796.0	3878.5	3982.4	4150.9	4190.3	4091.8	3785.3	3242.2	3206.4	2550.4
20°	3735.1	3787.1	3844.4	3984.2	4167.0	4326.5	4355.2	4098.9	3521.8	3493.1	2778.0
22.5°	4036.2	3986.0	4045.2	4098.9	4240.5	4482.5	4561.3	4374.9	3815.7	3706.4	2984.1
25°	4541.6	4507.6	4464.6	4385.7	4444.8	4550.6	4670.7	4579.3	4066.7	3944.8	3183.1
27.5°	5034.5	5036.3	4943.1	4771.0	4643.8	4665.3	4806.9	4758.5	4278.2	4224.4	3319.3
30°	5735.3	5692.3	5588.3	5355.3	5106.2	4901.9	4878.6	4925.2	4547.0	4443.0	3514.6
32.5°	6260.4	6269.4	6122.4	5787.2	5446.7	5280.0	5075.7	5095.4	4717.3	4640.2	3670.6
35°	6685.2	6674.4	6570.5	6292.7	5889.4	5688.7	5412.7	5299.8	5113.4	4991.5	3908.9
37.5°	7144.0	7056.2	6887.7	6574.1	6316.0	6038.2	5769.3	5514.8	5376.8	5229.9	4113.3
40°	7328.6	7328.6	7102.8	6959.4	6652.9	6443.2	6269.4	5798.0	5697.6	5669.0	4374.9
42.5°	7197.8	7278.4	7185.2	7022.1	6896.7	6631.4	6584.8	6091.9	6093.7	6036.4	4688.6
45°	7185.2	7074.1	6997.0	7038.3	6979.1	6964.8	7083.1	6498.8	6509.5	6502.4	5109.8
47.5°	6825.0	6774.8	6889.5	6957.6	7006.0	7228.2	7568.8	6984.5	7061.6	7007.8	5595.5
50°	6466.5	6457.6	6529.3	6776.6	6986.3	7351.9	8031.2	7733.7	7986.4	7982.8	6475.5
52.5°	5484.4	5579.3	5860.7	6384.1	6902.0	7520.4	8380.7	8690.7	9172.9	9303.7	7204.9
55°	4545.2	4495.0	4910.8	5670.8	6534.6	7586.7	8771.4	9266.1	9975.8	10070.8	7954.1
57.5°	3536.2	3629.4	3957.3	4686.8	5774.7	7258.7	9058.1	9834.2	10882.7	10956.2	8823.4
60°	2638.2	2650.8	3011.0	3598.9	4763.9	6518.5	9151.3	10416.7	11922.2	12131.9	9733.8
62.5°	1659.6	1734.9	2009.1	2588.0	3586.3	5482.6	8733.7	10769.8	13011.9	13067.5	10651.5
65°	894.3	942.7	1148.8	1512.7	2505.6	4147.3	7626.1	10558.3	13524.5	13854.3	11060.1
67°	661.3	670.3	765.3	966.0	1675.8	3122.1	6359.0	9793.0	13757.5	13997.7	11076.2
67.5°	620.1	632.7	707.9	867.5	1485.8	2874.8	6027.4	9520.6	13653.5	13911.6	10950.8
70°	530.5	534.1	552.0	596.8	833.4	1729.5	4104.3	7801.8	12655.2	12902.6	10070.8
72.5°	471.4	475.0	482.1	491.1	564.6	1000.1	2496.6	6004.1	10999.2	11393.5	8688.9
75°	414.0	426.6	430.1	423.0	480.3	650.6	1328.1	4412.6	8972.1	9163.9	6756.9
77.5°	351.3	356.7	363.8	371.0	428.4	485.7	638.0	2978.8	6158.2	6041.8	3654.4
80°	295.7	297.5	302.9	308.3	371.0	371.0	362.0	1609.5	2690.2	2571.9	1234.9
82.5°	211.5	224.0	236.6	250.9	308.3	249.1	236.6	716.9	851.3	810.1	417.6
85°	82.4	100.4	155.9	172.1	195.4	134.4	157.7	310.1	354.9	351.3	155.9
87.5°	14.3	16.1	43.0	66.3	71.7	46.6	75.3	111.1	132.6	143.4	57.4
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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1623.8	1568.2	1501.9	1435.6	1392.6	1324.5	1319.1	1277.9	1272.5	1258.2	1265.3
5°	1636.3	1570.0	1435.6	1329.9	1281.5	1242.0	1251.0	1233.1	1227.7	1218.7	1204.4
7.5°	1734.9	1604.1	1403.3	1311.9	1276.1	1258.2	1258.2	1236.7	1220.5	1231.3	1242.0
10°	1799.4	1620.2	1428.4	1337.0	1308.4	1268.9	1283.3	1256.4	1265.3	1243.8	1243.8
12.5°	1903.4	1711.6	1480.4	1374.7	1328.1	1292.2	1306.6	1276.1	1268.9	1270.7	1265.3
15°	2043.2	1772.6	1503.7	1396.2	1363.9	1319.1	1308.4	1281.5	1254.6	1245.6	1256.4
17.5°	2174.0	1847.8	1519.8	1408.7	1356.8	1306.6	1294.0	1260.0	1251.0	1224.1	1202.6
20°	2330.0	1937.4	1541.4	1419.5	1329.9	1279.7	1247.4	1213.4	1182.9	1166.8	1173.9
22.5°	2433.9	1984.0	1552.1	1398.0	1290.4	1243.8	1175.7	1152.4	1109.4	1091.5	1077.2
25°	2604.2	2041.4	1525.2	1338.8	1220.5	1145.3	1084.3	1052.1	1021.6	998.3	991.1
27.5°	2647.2	2084.4	1462.5	1238.5	1109.4	1030.6	978.6	939.2	919.4	883.6	876.4
30°	2772.6	2041.4	1369.3	1116.6	1003.7	923.0	871.0	842.4	795.8	786.8	767.1
32.5°	2853.3	2053.9	1251.0	998.3	881.8	810.1	776.1	747.4	734.8	691.8	681.1
35°	2987.7	2010.9	1130.9	889.0	781.4	725.9	697.2	688.2	647.0	627.3	609.4
37.5°	3073.7	1985.8	1010.8	765.3	672.1	648.8	657.8	620.1	569.9	532.3	519.8
40°	3224.3	1976.9	874.6	663.1	596.8	591.5	620.1	548.4	457.0	424.8	406.8
42.5°	3441.2	1915.9	768.9	571.7	537.7	561.0	566.4	457.0	405.1	378.2	365.6
45°	3649.1	1928.5	664.9	473.2	467.8	501.8	489.3	387.1	356.7	336.9	347.7
47.5°	4048.7	1991.2	562.8	394.3	421.2	453.4	380.0	345.9	317.2	302.9	304.7
50°	4667.1	2052.2	473.2	360.2	397.9	410.4	326.2	313.6	311.9	283.2	281.4
52.5°	5038.1	2028.9	457.0	403.3	426.6	410.4	354.9	345.9	331.6	319.0	304.7
55°	5627.7	2097.0	491.1	471.4	483.9	394.3	397.9	394.3	383.5	351.3	360.2
57.5°	6097.3	2141.8	535.9	526.9	519.8	410.4	415.8	417.6	410.4	396.1	408.6
60°	6742.5	2231.4	582.5	584.3	586.1	446.3	455.2	466.0	464.2	458.8	462.4
62.5°	7138.6	2190.2	634.5	663.1	654.2	519.8	518.0	525.1	525.1	534.1	539.5
65°	7079.5	2037.8	661.3	733.0	686.4	573.5	573.5	577.1	578.9	596.8	598.6
67°	6724.6	1765.4	647.0	743.8	686.4	595.0	595.0	598.6	586.1	632.7	618.3
67.5°	6559.7	1684.7	634.5	734.8	681.1	593.2	593.2	595.0	584.3	629.1	614.7
70°	5704.8	1251.0	546.6	650.6	630.9	577.1	577.1	566.4	557.4	616.5	604.0
72.5°	4869.6	908.7	439.1	553.8	569.9	555.6	559.2	532.3	507.2	548.4	537.7
75°	3729.7	668.5	342.3	426.6	482.1	519.8	543.1	475.0	442.7	453.4	433.7
77.5°	2080.8	435.5	270.6	315.4	367.4	483.9	521.6	428.4	362.0	349.5	349.5
80°	706.2	254.5	198.9	234.8	252.7	428.4	487.5	347.7	285.0	272.4	263.5
82.5°	267.0	155.9	136.2	161.3	161.3	338.7	397.9	267.0	215.1	277.8	283.2
85°	121.9	93.2	89.6	93.2	93.2	207.9	281.4	173.9	193.6	166.7	147.0
87.5°	48.4	44.8	41.2	39.4	32.3	35.8	96.8	46.6	87.8	23.3	21.5
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)