

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: P285793

Luminaire Tested: **USSL-XL-C069-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T3-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43587.3 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

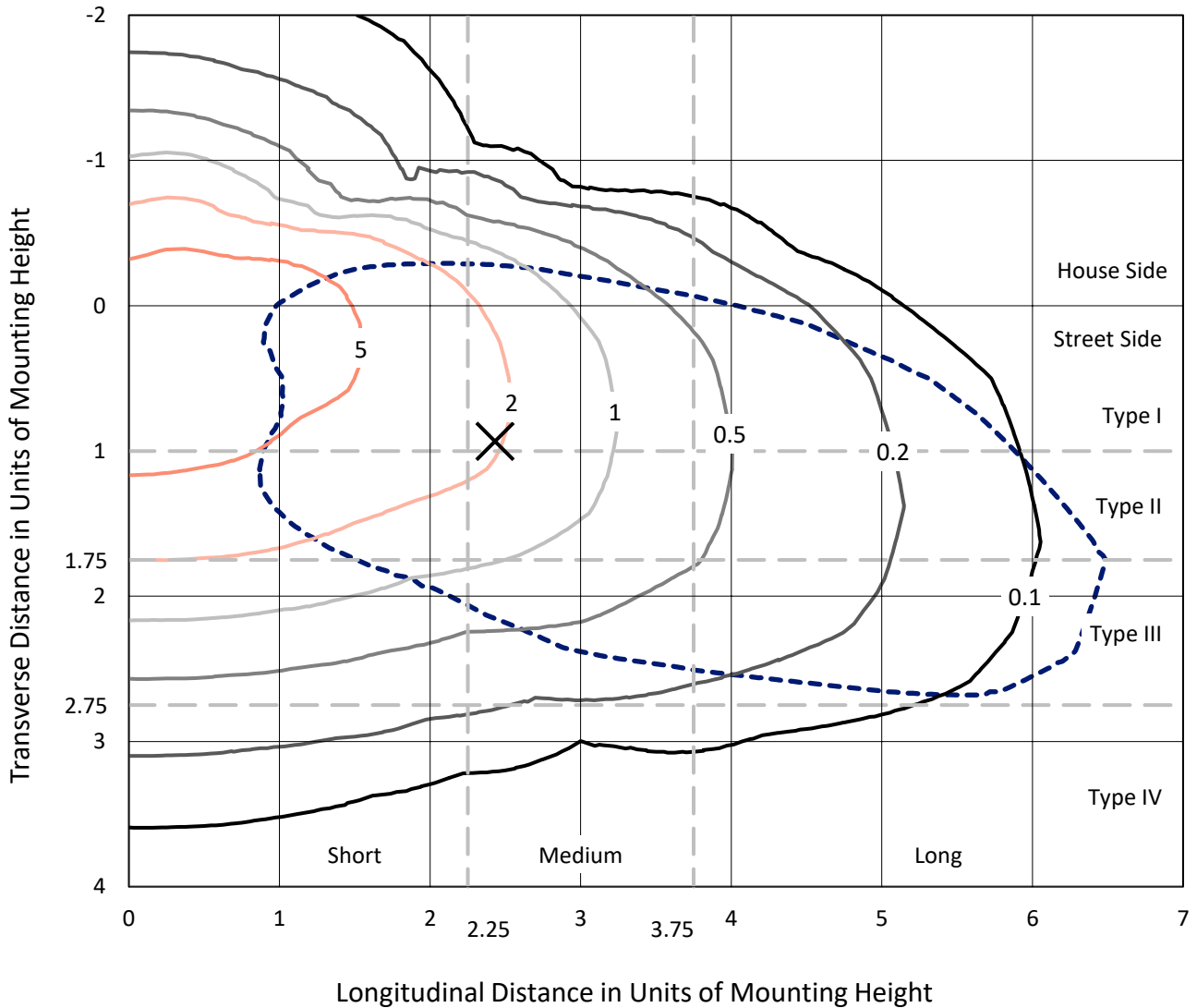
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

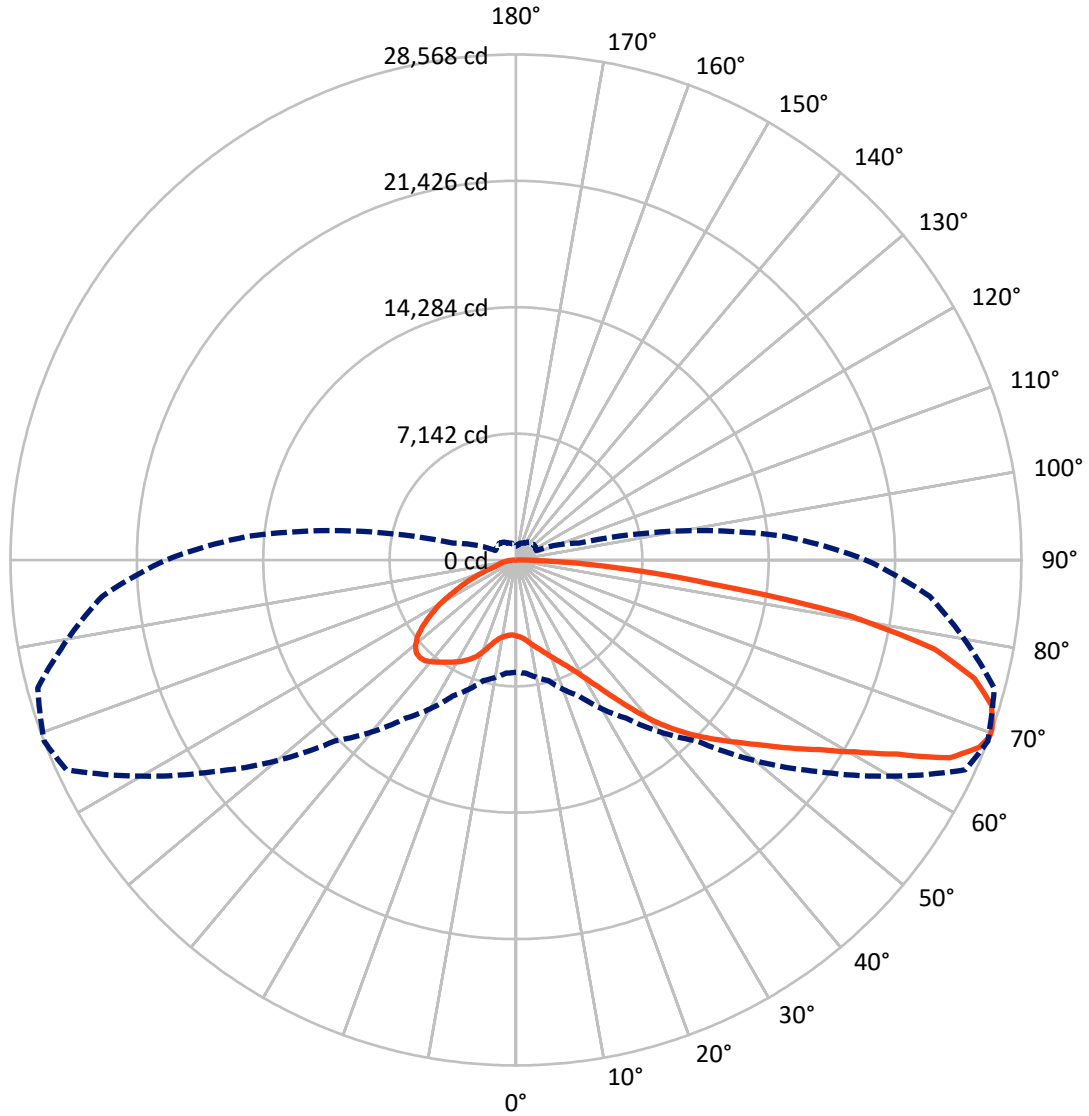
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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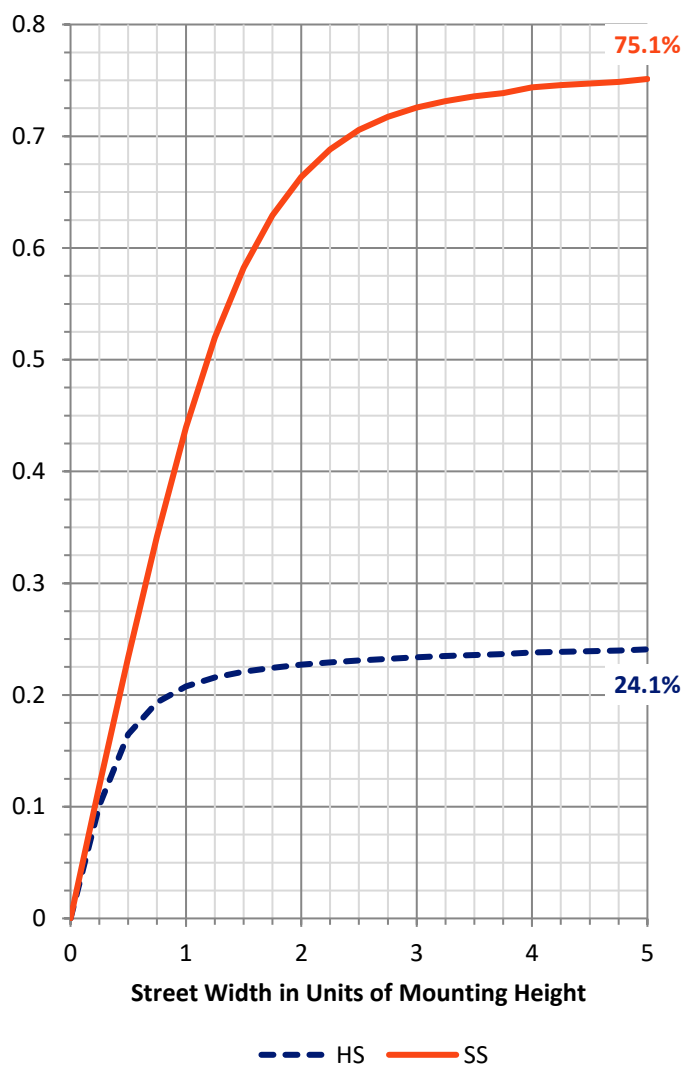
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10716.1	0.0	10716.1
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	32871.3	0.0	32871.3
	% Fixture	75.4	0.0	75.4
Total	Lumens	43587.3	0.0	43587.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.6	1.0
10°-20°	1380.5	3.2
20°-30°	2585.6	5.9
30°-40°	4393.2	10.1
40°-50°	6741.6	15.5
50°-60°	8808.2	20.2
60°-70°	10029.8	23.0
70°-80°	7572.3	17.4
80°-90°	1652.5	3.8
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°	43587.3	100.0
0°-180°	43587.3	100.0

Coefficient of Utilization



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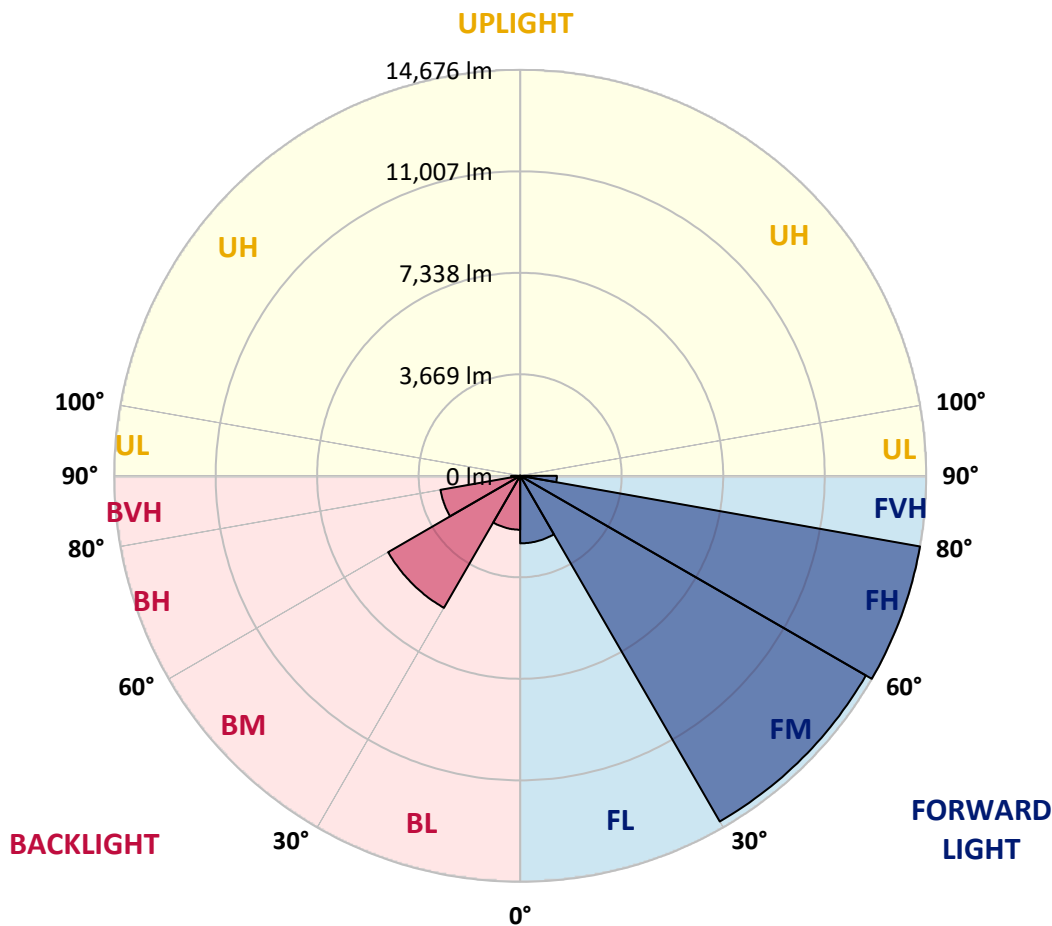
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2441.2	5.6			
FM (30°-60°)	14429.1	33.1			
FH (60°-80°)	14676.0	33.7			G5
FVH (80°-90°)	1324.9	3.0			G5
BL (0°-30°)	1948.5	4.5	B3/2500		
BM (30°-60°)	5513.9	12.7	B4/8500		
BH (60°-80°)	2926.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	327.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3
2.5°	4463.9	4477.1	4475.5	4468.9	4465.5	4447.1	4423.8	4393.7	4343.7	4320.4	4290.3
5°	4654.0	4664.1	4665.8	4654.0	4640.7	4612.4	4563.9	4517.2	4462.2	4428.8	4370.4
7.5°	4816.0	4824.2	4839.3	4829.2	4822.7	4799.2	4752.5	4697.5	4625.7	4579.0	4497.2
10°	4946.1	4952.8	4964.5	4981.1	5012.8	4992.8	4937.8	4899.4	4834.3	4762.6	4660.7
12.5°	5039.5	5034.5	5067.9	5097.9	5163.0	5184.7	5146.3	5117.9	5054.6	4981.1	4861.0
15°	5083.0	5081.3	5139.7	5214.7	5311.6	5346.6	5346.6	5314.9	5279.8	5223.1	5096.3
17.5°	5176.3	5183.0	5221.4	5318.3	5421.7	5503.4	5581.9	5585.2	5558.5	5520.2	5388.3
20°	5319.9	5331.5	5351.5	5428.4	5543.5	5687.0	5833.8	5887.2	5873.9	5858.9	5755.4
22.5°	5500.1	5505.1	5500.1	5566.8	5720.4	5913.9	6125.9	6214.3	6222.7	6224.4	6172.6
25°	5788.7	5767.1	5712.0	5772.1	5950.7	6174.2	6433.0	6579.8	6618.1	6653.2	6776.7
27.5°	6316.2	6266.0	6162.6	6142.5	6244.4	6489.7	6810.1	7055.3	7110.4	7207.2	7535.9
30°	7167.1	7100.4	7003.6	6708.2	6668.3	6878.4	7285.6	7636.0	7746.2	8039.9	8418.7
32.5°	8029.9	7986.5	7878.0	7594.4	7294.0	7372.5	7772.9	8320.2	8557.2	9151.3	9501.7
35°	8770.8	8749.1	8687.4	8548.8	8200.1	7979.8	8328.6	9089.5	9531.7	10459.5	10774.9
37.5°	9485.0	9475.0	9478.4	9289.8	9142.9	8825.9	8966.0	9987.3	10713.2	11829.5	12041.5
40°	10109.1	10114.1	10165.8	10079.1	10054.0	9857.2	9717.0	10945.2	11939.7	13184.5	13234.7
42.5°	10621.4	10626.5	10866.7	10736.6	10891.7	10848.4	10646.5	11839.6	13067.7	14280.9	14274.2
45°	10958.5	10966.8	11203.8	11308.9	11637.7	11781.2	11631.0	12757.4	14120.7	15295.5	15163.7
47.5°	11208.8	11202.1	11337.3	11761.2	12321.9	12605.5	12660.6	13800.3	15141.9	16235.0	16006.4
50°	11344.0	11358.9	11617.7	12183.3	13011.0	13406.5	13708.5	15031.8	16189.9	17141.1	16819.0
52.5°	11429.0	11504.2	11883.0	12555.5	13633.4	14252.6	14631.3	16396.9	17371.3	18082.2	17680.1
55°	11489.1	11625.9	11999.8	12750.7	14020.6	14938.3	15497.4	17805.3	18766.4	19148.6	18624.6
57.5°	11060.3	11192.1	11799.5	12780.7	14325.9	15502.4	16420.2	19292.1	20221.5	20463.5	19559.1
60°	10327.7	10406.1	11188.7	12545.4	14259.3	16014.7	17631.6	21055.9	22028.7	22047.1	20543.6
62.5°	9573.4	9605.1	10396.1	11931.3	13958.9	16183.3	18843.2	23407.1	24171.4	23937.7	21589.8
65°	8572.3	8607.2	9423.3	10921.7	13233.0	15996.3	19834.4	25885.2	26954.8	26330.8	22627.8
67.5°	7263.9	7340.7	8098.3	9486.6	11941.4	15273.8	20545.3	27592.3	28248.1	27710.8	23345.4
69°	6347.8	6419.6	7055.3	8493.8	10935.1	14459.5	20844.0	28042.8	28568.4	27982.7	23465.6
70°	5688.7	5743.7	6339.5	7751.2	10147.5	13763.6	20909.1	28164.6	28551.8	27992.8	23400.5
72.5°	4055.0	4101.7	4425.4	5423.3	7691.2	11529.2	20590.4	27834.2	28117.9	27311.9	22547.8
75°	2998.7	3035.4	3229.0	3582.8	4477.1	8158.4	18604.5	26460.9	26762.9	25823.4	20770.5
77.5°	2176.0	2206.1	2392.9	2738.4	3150.6	3841.4	12897.5	23881.0	24178.1	23423.8	17880.3
80°	1485.1	1516.8	1685.5	1977.5	2302.8	2556.5	6332.8	17478.2	19115.2	18748.0	12742.3
82.5°	278.6	342.1	724.2	1026.3	1294.9	1385.1	2394.6	9610.1	11167.1	11390.6	6644.8
85°	185.3	200.2	442.2	430.5	422.2	619.1	937.8	4607.4	5828.8	6039.1	2868.5
87.5°	91.8	96.8	131.9	181.9	231.9	278.6	308.7	1214.9	1755.5	1882.3	535.7
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°	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3
2.5°	4278.6	4270.2	4245.2	4235.3	4228.6	4225.2	4185.1	4178.4	4158.4	4145.1	4133.4
5°	4342.0	4328.6	4270.2	4248.6	4215.2	4186.8	4120.0	4091.7	4071.7	4045.0	4033.3
7.5°	4453.8	4430.5	4342.0	4301.9	4243.5	4195.2	4103.4	4059.9	4021.6	3984.9	3978.2
10°	4605.7	4562.2	4440.5	4378.8	4293.7	4236.8	4130.1	4046.6	3989.9	3948.2	3946.5
12.5°	4804.2	4739.1	4592.3	4510.5	4405.4	4318.7	4196.8	4071.7	3978.2	3911.5	3908.2
15°	5041.2	4972.7	4824.2	4719.1	4595.6	4478.8	4283.6	4098.4	3943.1	3836.4	3823.1
17.5°	5331.5	5266.4	5131.3	5046.2	4872.7	4642.4	4365.4	4088.4	3866.4	3719.6	3697.9
20°	5698.7	5717.0	5590.2	5405.0	5116.2	4777.5	4405.4	4036.6	3714.5	3509.3	3479.2
22.5°	6211.0	6272.7	6060.8	5720.4	5301.5	4849.3	4388.7	3899.8	3505.9	3257.4	3232.3
25°	6838.4	6820.0	6437.9	5952.3	5396.6	4847.7	4295.2	3704.6	3240.6	2960.3	2942.0
27.5°	7494.2	7384.1	6793.3	6114.1	5413.3	4755.9	4111.8	3410.9	2935.3	2701.7	2646.6
30°	8330.3	8023.2	7157.2	6251.0	5358.2	4580.7	3779.6	3128.8	2760.1	2506.5	2469.7
32.5°	9296.5	8785.8	7566.0	6292.7	5236.4	4312.0	3419.2	2998.7	2644.9	2356.3	2314.5
35°	10419.5	9762.0	8039.9	6307.8	5004.5	3913.2	3224.0	2923.6	2568.1	2241.1	2186.0
37.5°	11594.2	10796.6	8624.0	6291.0	4734.1	3475.9	3087.2	2815.1	2481.4	2214.3	2182.7
40°	12655.5	11792.9	9283.1	6244.4	4363.7	3192.3	2938.6	2664.9	2406.3	2204.4	2179.4
42.5°	13628.4	12660.6	9913.9	6166.0	3901.5	2990.3	2775.0	2553.2	2311.2	2064.2	2014.1
45°	14471.1	13461.6	10381.1	5979.0	3384.2	2783.4	2578.2	2397.9	2169.3	1924.0	1874.0
47.5°	15193.7	14122.4	10748.2	5658.6	2967.0	2589.9	2354.6	2212.8	2012.4	1778.8	1728.8
50°	15931.3	14659.7	10963.5	5129.6	2618.3	2367.9	2132.6	1997.5	1825.6	1655.4	1625.4
52.5°	16722.3	15532.4	11277.2	4258.6	2296.2	2134.3	1897.3	1750.5	1623.7	1551.9	1523.5
55°	17521.5	16306.8	11392.3	3220.6	2014.1	1950.7	1675.4	1485.1	1395.0	1350.0	1343.3
57.5°	18315.8	16967.5	10998.6	2292.8	1827.3	1738.8	1438.4	1258.2	1151.4	1183.2	1231.5
60°	19128.5	17449.8	9992.3	1793.9	1680.4	1485.1	1238.2	1104.7	1058.0	1022.9	1024.6
62.5°	19879.5	17675.1	8280.2	1523.5	1538.6	1328.3	1168.1	1038.0	991.2	931.1	912.8
65°	20378.4	17278.0	6463.0	1410.1	1410.1	1288.2	1164.7	1039.7	976.2	871.0	852.7
67.5°	20234.9	16243.3	4782.6	1308.2	1328.3	1304.9	1193.1	1036.3	957.8	857.7	851.1
69°	19772.6	15252.1	3672.9	1278.2	1314.9	1320.0	1226.5	1053.0	977.9	826.0	789.3
70°	19308.7	14487.8	3040.4	1253.2	1311.6	1330.0	1253.2	1072.9	962.8	776.0	752.6
72.5°	17731.8	12245.0	1531.9	1156.5	1306.6	1341.6	1311.6	1148.1	954.5	747.5	727.5
75°	15589.2	9418.3	982.8	1074.6	1264.9	1355.0	1358.4	1218.1	957.8	730.9	705.9
77.5°	12490.4	5460.1	816.0	982.8	1186.5	1328.3	1373.3	1271.6	997.9	759.3	730.9
80°	6641.5	2159.3	655.8	839.3	1086.3	1248.2	1331.7	1253.2	987.9	634.1	615.8
82.5°	2940.3	670.8	480.6	659.2	854.4	1091.4	1131.4	1103.0	864.3	383.8	438.9
85°	826.0	277.1	320.4	473.9	590.7	772.7	886.1	889.5	670.8	166.8	38.4
87.5°	85.1	63.4	93.5	181.9	340.4	535.7	647.5	620.8	448.9	141.8	3.3
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)