

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: P510417

Luminaire Tested: **CST-CA10-210-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-210-730-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34017 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

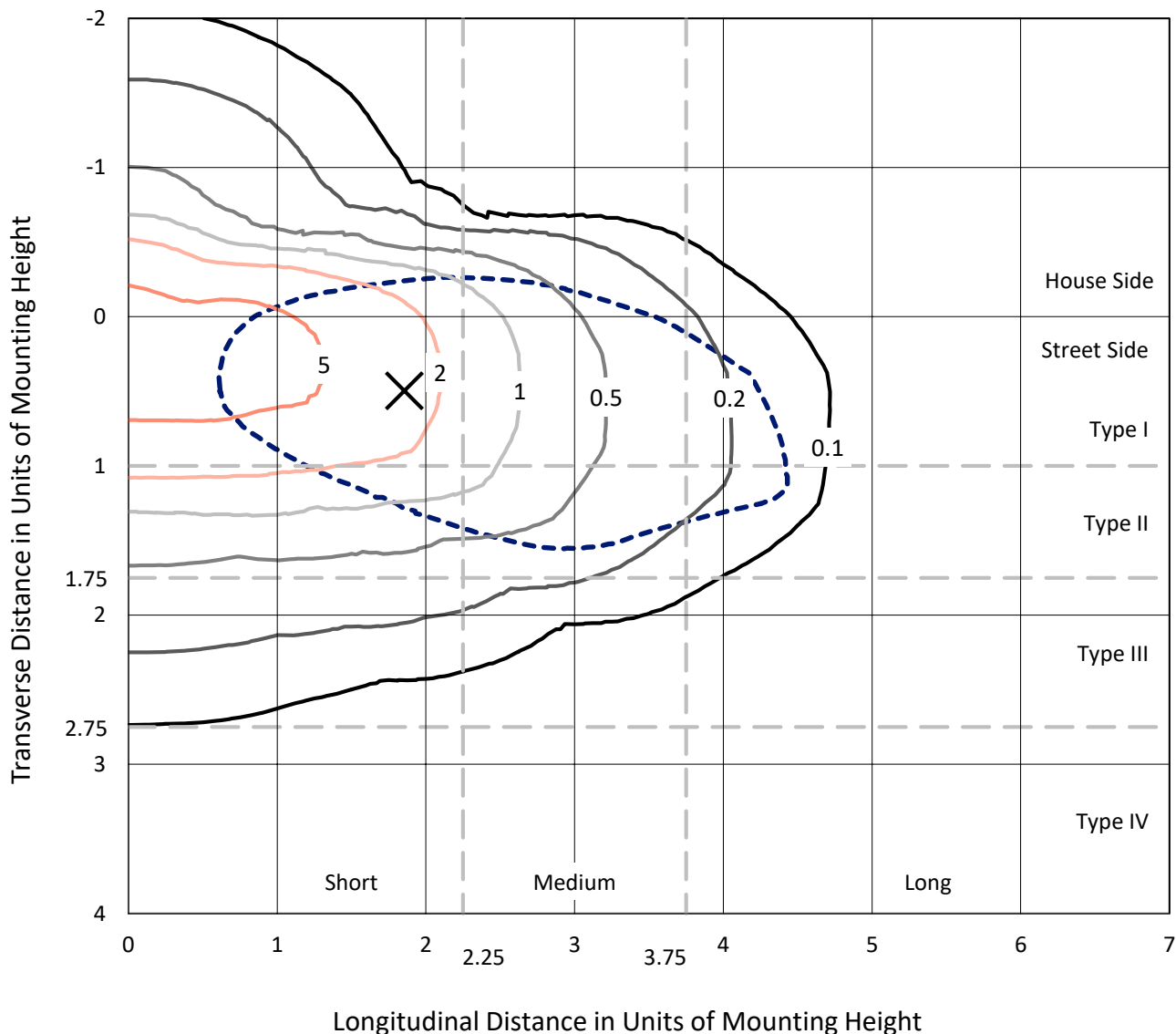
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

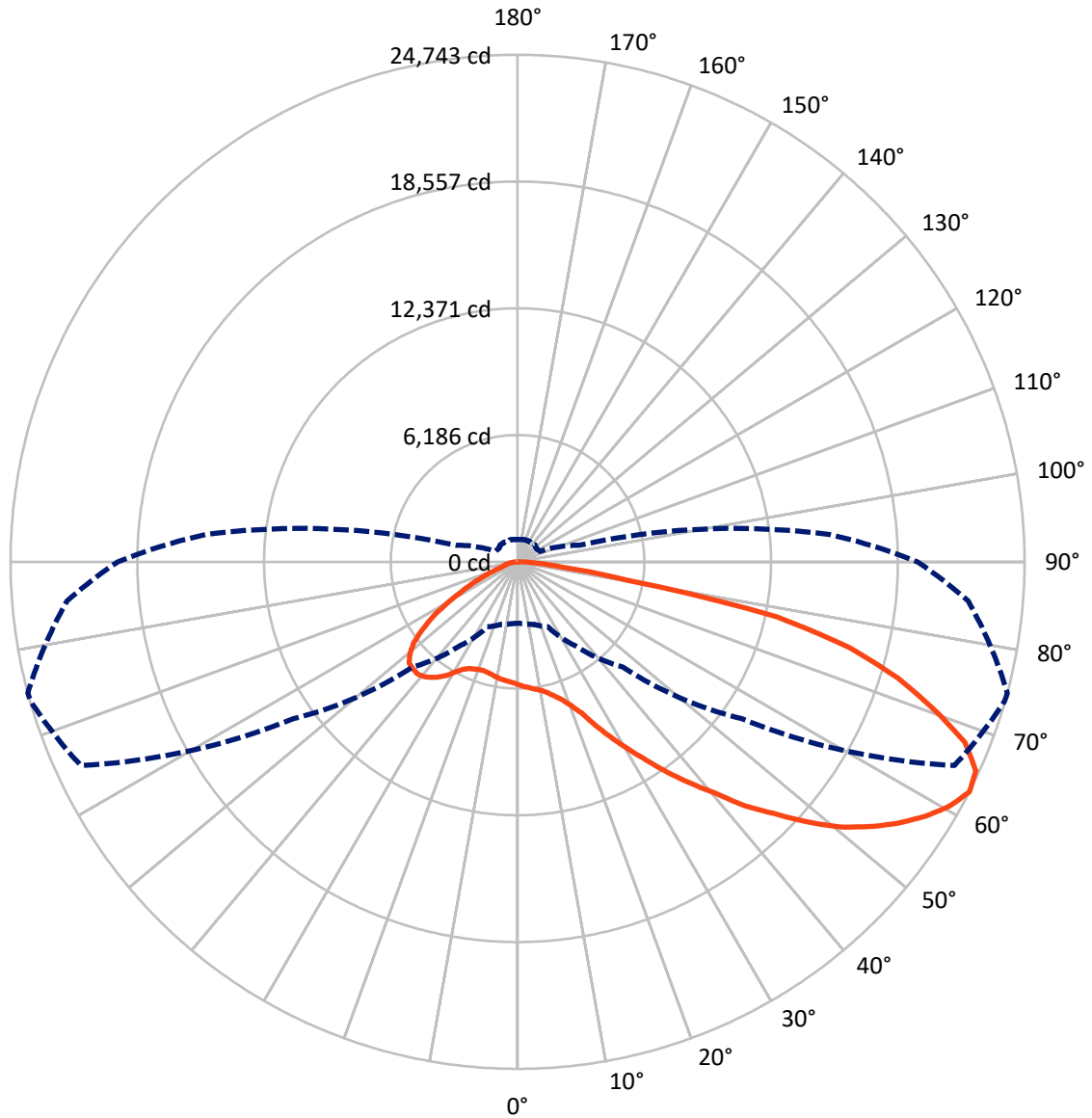
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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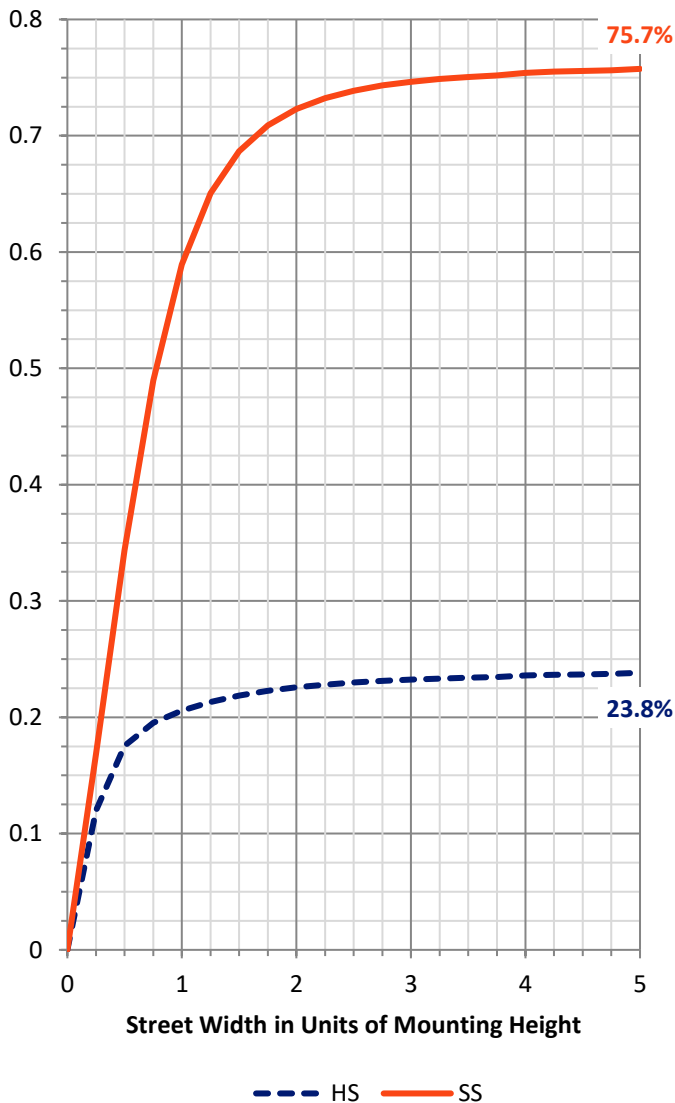
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8241.7	0.0	8241.7
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	25775.3	0.0	25775.3
	% Fixture	75.8	0.0	75.8
Total	Lumens	34017.0	0.0	34017.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.7
10°-20°	1750.8	5.1
20°-30°	3019.6	8.9
30°-40°	4452.5	13.1
40°-50°	5869.4	17.3
50°-60°	6907.8	20.3
60°-70°	6872.5	20.2
70°-80°	4007.9	11.8
80°-90°	559.6	1.6
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°	34017.0	100.0
0°-180°	34017.0	100.0

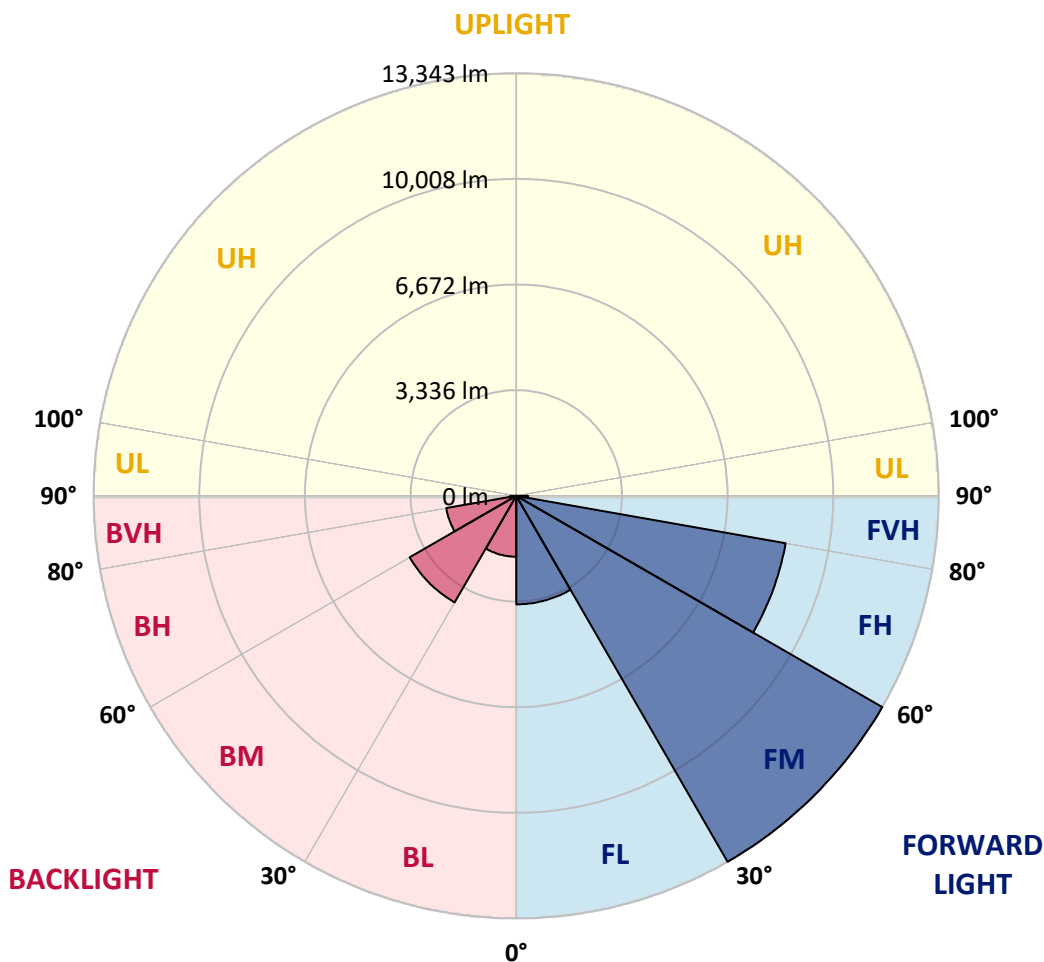


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3425.4	10.1			
FM (30°-60°)	13343.5	39.2			
FH (60°-80°)	8635.1	25.4			G4/12000
FVH (80°-90°)	371.4	1.1			G3/500
BL (0°-30°)	1921.9	5.6	B3/2500		
BM (30°-60°)	3886.2	11.4	B3/5000		
BH (60°-80°)	2245.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	188.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4
2.5°	6324.8	6298.9	6302.4	6284.2	6256.9	6236.6	6183.3	6125.9	6091.6	6088.8	6039.8
5°	6642.6	6651.0	6653.1	6595.0	6537.6	6472.5	6391.3	6280.7	6190.4	6176.3	6081.1
7.5°	6932.5	6931.8	6927.6	6895.4	6868.8	6772.1	6609.7	6436.1	6289.1	6275.8	6121.0
10°	7229.3	7227.2	7185.2	7131.3	7071.1	6982.2	6842.9	6634.9	6396.9	6379.4	6158.1
12.5°	7552.8	7529.7	7503.1	7437.9	7366.5	7212.5	7066.2	6840.0	6591.5	6560.0	6224.0
15°	7819.5	7795.7	7758.6	7714.5	7639.6	7522.0	7366.5	7098.4	6831.6	6800.8	6371.7
17.5°	8083.4	8072.2	8045.6	7998.7	7941.3	7839.8	7697.0	7469.4	7120.1	7082.3	6617.4
20°	8299.8	8273.2	8253.6	8275.3	8280.2	8205.3	8126.8	7935.7	7550.7	7492.5	6919.2
22.5°	8423.0	8417.4	8524.5	8604.3	8636.5	8653.3	8628.8	8474.8	8126.1	8024.6	7339.2
25°	8539.9	8530.8	8676.4	8876.0	9065.7	9162.3	9227.4	9247.7	8927.8	8836.1	8014.8
27.5°	8543.4	8568.6	8780.0	9114.7	9403.8	9698.6	10010.8	10046.5	9765.8	9693.0	8783.5
30°	8562.3	8573.5	8782.8	9167.2	9769.3	10241.9	10648.6	10849.6	10607.3	10573.7	9630.0
32.5°	8322.2	8336.9	8662.4	9258.9	10045.1	10804.1	11343.8	11642.1	11581.9	11539.2	10533.1
35°	8072.2	8084.8	8462.9	9128.7	10250.3	11314.4	11971.8	12557.8	12667.7	12635.5	11540.6
37.5°	7680.2	7722.2	8118.4	8973.3	10286.0	11689.7	12571.1	13470.1	13801.9	13705.3	12606.1
40°	7254.5	7285.3	7746.7	8647.7	10246.1	11936.1	13159.9	14479.6	14881.5	14829.7	13664.0
42.5°	6716.8	6799.4	7261.5	8231.9	10040.9	12089.5	13704.6	15624.3	16208.2	16277.5	14635.7
45°	6263.9	6261.8	6690.9	7629.8	9669.2	12125.9	14205.9	16781.6	17635.7	17505.5	15920.4
47.5°	5731.1	5752.8	6200.9	7030.5	9121.0	12010.3	14596.5	18149.6	19014.2	18943.5	16974.1
50°	4498.2	4654.3	5502.8	6515.2	8379.6	11688.3	14922.1	19481.9	20307.3	20339.5	17931.9
52.5°	3877.9	3938.1	4406.5	5996.4	7721.5	11147.8	15279.1	20980.8	21557.0	21475.1	19019.1
55°	3629.4	3661.6	3886.3	5064.6	7085.1	10311.2	15450.7	22349.5	22531.6	22518.3	19913.9
57.5°	3449.4	3473.9	3633.6	4226.5	6386.4	9237.2	15305.7	23240.1	23522.9	23436.1	20758.2
60°	3189.7	3209.3	3447.3	3808.6	5667.4	8152.8	14414.5	23644.0	24241.9	24209.7	21504.5
62.5°	2994.4	3028.0	3161.0	3499.8	5053.4	7259.4	13352.4	23518.0	24713.8	24742.5	22074.4
65°	2787.8	2817.9	2930.6	3226.8	4496.8	6672.0	12207.1	22886.5	24496.8	24573.1	22166.8
67.5°	2533.0	2556.1	2689.8	2946.1	3846.4	6084.6	10915.4	21769.8	23292.6	23538.3	21246.9
70°	2212.3	2220.7	2384.6	2558.9	3193.9	5199.0	8679.2	19941.9	21550.0	21554.9	19509.9
72.5°	1760.8	1767.8	1811.2	1943.5	2399.3	4114.5	6379.4	16662.6	19431.5	19395.8	17339.6
75°	1197.2	1258.8	1409.3	1535.3	1730.7	2889.3	3967.5	11226.2	16463.0	16743.1	14243.0
77.5°	945.8	951.4	1013.8	1129.3	1298.0	2158.4	2223.5	6211.4	12273.6	12939.4	11195.4
80°	659.5	669.3	635.7	663.7	905.2	1477.2	1299.4	2703.1	5118.5	5465.0	6721.7
82.5°	314.3	325.5	373.9	347.3	450.2	628.0	686.1	1396.7	2210.9	2269.0	2617.0
85°	207.2	207.2	207.9	196.7	262.5	273.7	311.5	595.8	1079.6	1116.0	1109.7
87.5°	66.5	73.5	71.4	83.3	100.8	91.0	95.2	186.9	370.4	366.9	306.6
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°	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4	5996.4
2.5°	6004.8	5976.1	5908.9	5850.1	5792.0	5747.9	5710.1	5659.7	5635.9	5614.2	5659.7
5°	6022.3	5971.2	5850.8	5730.4	5619.8	5538.6	5488.8	5452.4	5419.5	5419.5	5434.9
7.5°	6042.6	5973.3	5801.1	5630.3	5464.3	5371.9	5301.2	5255.0	5228.4	5229.8	5262.7
10°	6055.9	5949.5	5744.4	5514.0	5333.4	5185.0	5115.7	5049.2	4998.8	4968.7	5002.3
12.5°	6071.3	5941.8	5668.1	5408.3	5188.5	5020.5	4876.2	4826.5	4777.5	4739.7	4757.9
15°	6166.5	5971.2	5604.4	5273.9	5019.1	4809.7	4620.7	4529.7	4515.7	4489.8	4496.1
17.5°	6322.0	6050.3	5563.1	5109.4	4815.3	4568.2	4328.8	4211.1	4183.1	4169.8	4176.8
20°	6553.7	6200.9	5575.7	4993.9	4585.7	4309.2	3999.7	3861.8	3768.7	3774.3	3801.6
22.5°	6908.0	6443.8	5644.3	4867.1	4337.2	3974.5	3662.3	3474.6	3380.8	3360.5	3391.3
25°	7472.2	6835.1	5719.9	4746.0	4097.0	3613.3	3267.4	3064.4	2944.0	2936.3	2970.6
27.5°	8195.5	7435.1	5884.4	4641.0	3798.8	3179.2	2835.4	2661.8	2533.7	2518.3	2507.1
30°	8935.5	8101.6	6181.9	4481.4	3450.8	2731.1	2432.2	2296.4	2152.8	2094.7	2107.3
32.5°	9719.6	8722.6	6530.6	4369.4	3061.6	2337.0	2077.2	1947.7	1816.1	1732.1	1712.5
35°	10509.3	9340.1	6823.9	4202.0	2692.6	2024.0	1775.5	1641.8	1526.9	1458.3	1453.4
37.5°	11433.5	9982.8	7059.2	4024.2	2309.7	1779.0	1480.0	1403.0	1347.7	1287.5	1293.8
40°	12359.0	10731.9	7247.5	3730.2	1991.8	1515.7	1259.5	1274.9	1286.8	1236.4	1232.2
42.5°	13127.7	11361.3	7333.6	3349.3	1710.4	1286.8	1162.2	1232.2	1284.0	1251.1	1246.9
45°	13908.3	11891.3	7300.0	2876.7	1476.5	1177.6	1154.5	1225.9	1292.4	1284.7	1281.2
47.5°	14756.9	12585.8	7241.9	2338.4	1309.2	1167.1	1171.3	1204.9	1288.9	1302.9	1297.3
50°	15794.4	13225.0	6898.2	1821.0	1228.0	1183.9	1209.1	1191.6	1263.0	1291.7	1296.6
52.5°	16827.1	13717.2	6438.2	1578.0	1195.8	1200.0	1261.6	1202.1	1233.6	1258.8	1281.9
55°	17623.8	14218.5	5694.0	1431.7	1185.3	1207.7	1276.3	1224.5	1223.8	1223.8	1231.5
57.5°	18439.4	14889.9	4949.8	1337.2	1167.1	1216.1	1258.8	1228.7	1218.9	1204.9	1195.8
60°	19007.2	15138.4	3993.4	1274.9	1148.2	1204.2	1209.8	1205.6	1175.5	1162.2	1151.7
62.5°	19511.3	15273.5	3109.2	1203.5	1122.3	1176.2	1146.8	1137.7	1120.2	1088.0	1093.6
65°	19376.2	14983.7	2369.2	1123.0	1104.1	1142.6	1091.5	1069.8	1071.2	1037.6	1048.8
67.5°	18506.6	13683.6	1701.3	999.8	1054.4	1076.1	1028.5	1012.4	988.6	971.7	987.2
70°	16750.1	12130.1	1147.5	829.6	940.9	987.9	956.3	928.3	891.2	880.0	896.8
72.5°	14098.1	10125.7	791.8	667.2	812.1	873.0	861.1	832.4	805.8	833.1	866.0
75°	11581.9	7491.1	646.2	546.8	624.5	727.4	762.4	770.8	850.6	1116.7	1144.0
77.5°	8336.9	4643.8	581.1	444.6	498.5	581.8	651.8	680.5	1039.0	994.9	992.8
80°	4860.8	2706.6	443.2	350.8	403.3	426.4	509.7	798.8	896.1	768.7	749.8
82.5°	2217.9	1194.4	308.7	280.7	280.0	282.1	347.3	768.7	687.5	605.6	583.2
85°	815.6	420.1	187.6	162.4	186.2	161.7	227.5	563.6	398.4	392.1	327.0
87.5°	200.9	86.1	63.7	53.2	43.4	41.3	69.3	185.5	97.3	88.9	85.4
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)