

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: P510437

Luminaire Tested: **CST-CA10-210-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510437
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-CA10-210-750-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35280 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

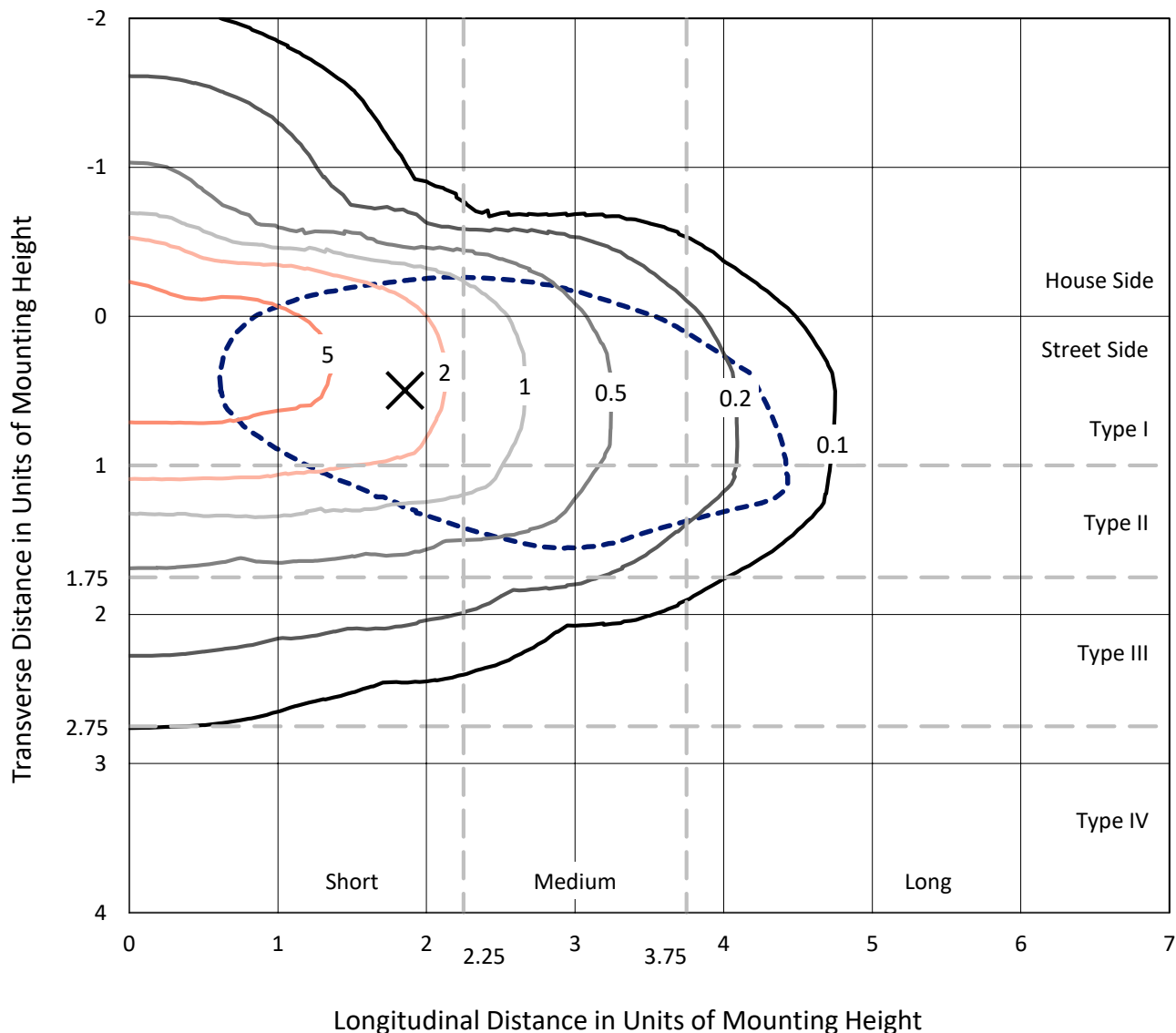
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

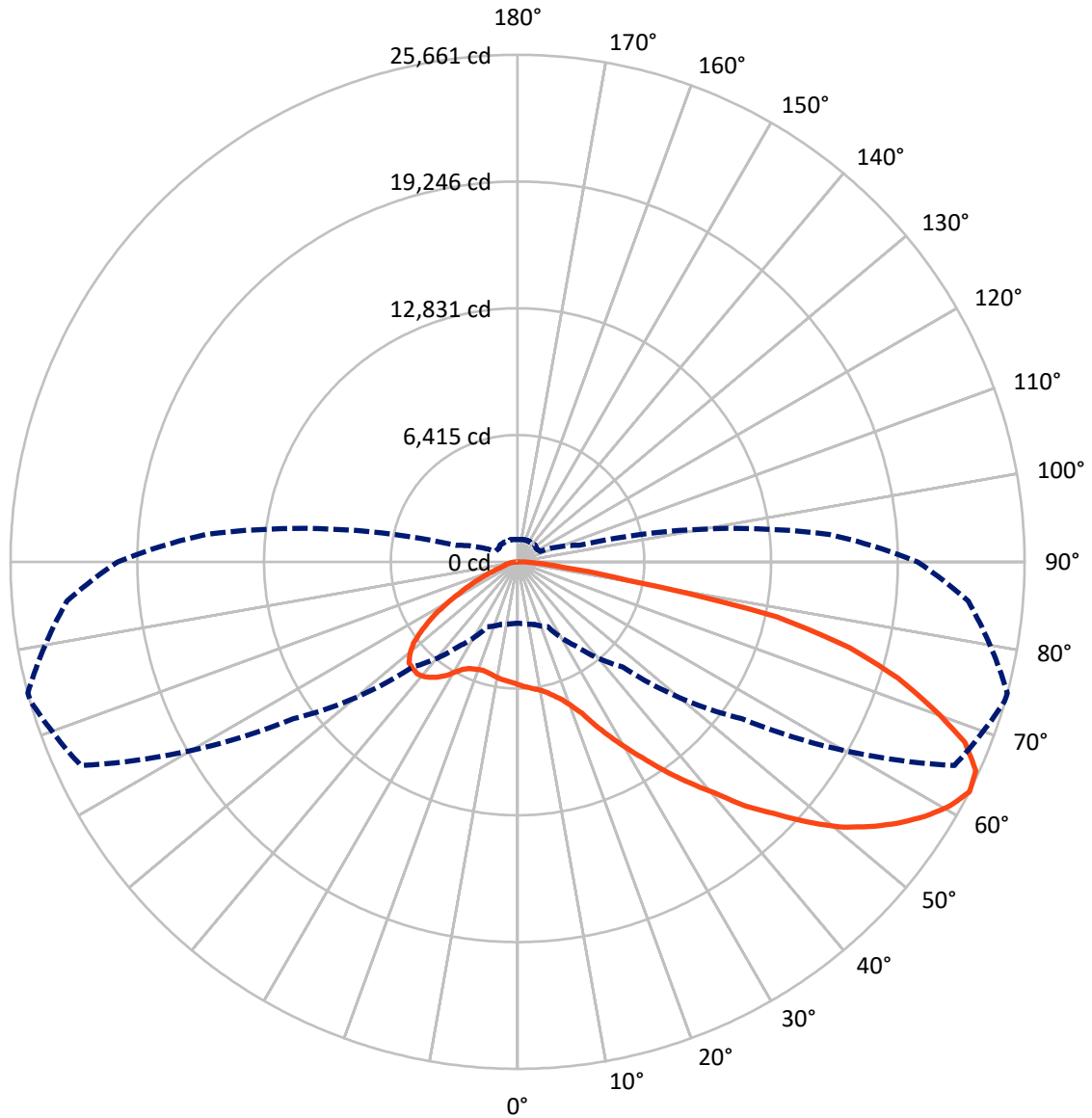
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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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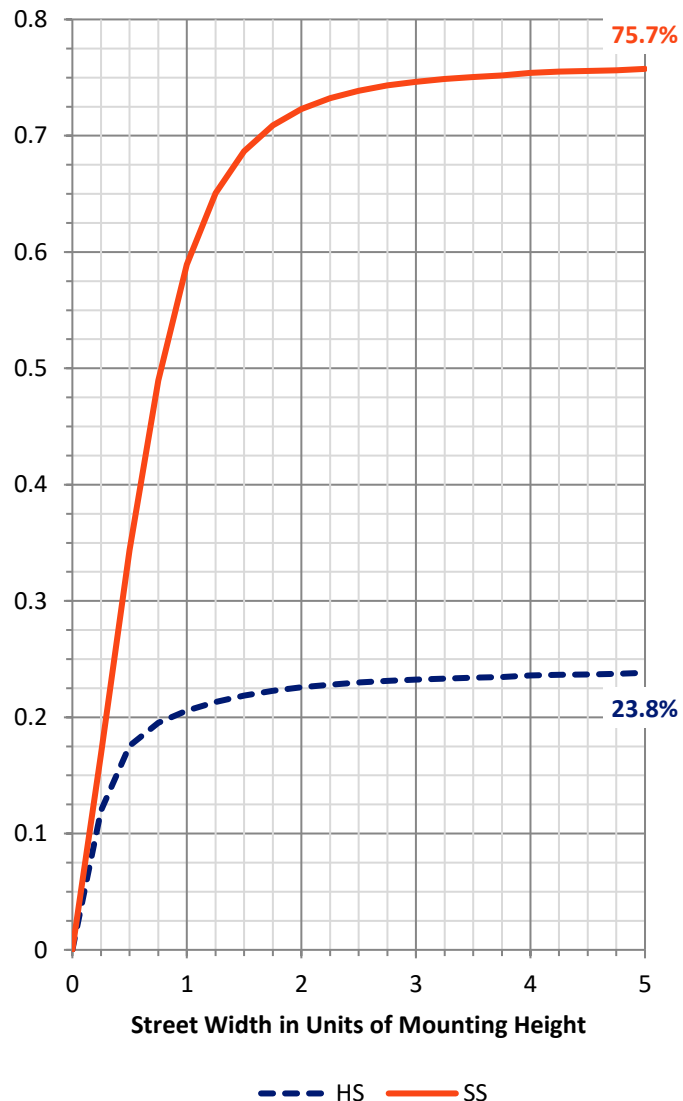
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8547.7	0.0	8547.7
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	26732.3	0.0	26732.3
	% Fixture	75.8	0.0	75.8
Total	Lumens	35280.0	0.0	35280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	1.7
10°-20°	1815.8	5.1
20°-30°	3131.8	8.9
30°-40°	4617.8	13.1
40°-50°	6087.3	17.3
50°-60°	7164.2	20.3
60°-70°	7127.7	20.2
70°-80°	4156.7	11.8
80°-90°	580.4	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°	35280.0	100.0
0°-180°	35280.0	100.0

Coefficient of Utilization

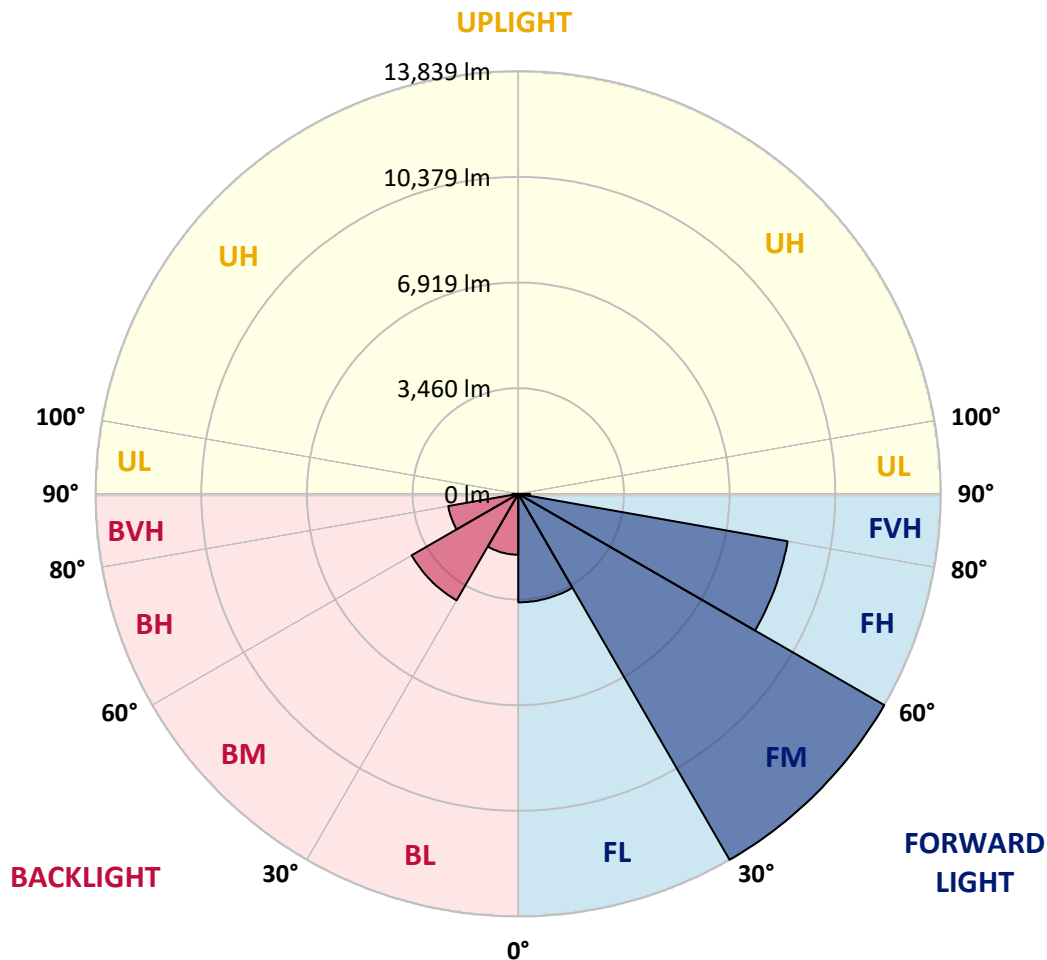


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3552.5	10.1			
FM (30°-60°)	13838.9	39.2			
FH (60°-80°)	8955.7	25.4			G4/12000
FVH (80°-90°)	385.1	1.1			G3/500
BL (0°-30°)	1993.3	5.6	B3/2500		
BM (30°-60°)	4030.5	11.4	B3/5000		
BH (60°-80°)	2328.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	195.2	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°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	6559.6	6532.7	6536.4	6517.5	6489.2	6468.1	6412.9	6353.4	6317.8	6314.9	6264.1
5°	6889.2	6898.0	6900.1	6839.9	6780.3	6712.8	6628.6	6513.9	6420.2	6405.7	6306.9
7.5°	7189.9	7189.1	7184.8	7151.4	7123.8	7023.6	6855.1	6675.1	6522.6	6508.8	6348.3
10°	7497.7	7495.5	7452.0	7396.1	7333.6	7241.4	7096.9	6881.3	6634.4	6616.2	6386.8
12.5°	7833.2	7809.2	7781.6	7714.1	7640.0	7480.3	7328.5	7094.0	6836.2	6803.6	6455.0
15°	8109.8	8085.1	8046.7	8000.9	7923.2	7801.2	7640.0	7361.9	7085.3	7053.3	6608.2
17.5°	8383.6	8371.9	8344.4	8295.7	8236.2	8130.9	7982.8	7746.8	7384.5	7345.2	6863.1
20°	8607.9	8580.3	8560.0	8582.5	8587.6	8509.9	8428.6	8230.4	7831.0	7770.7	7176.1
22.5°	8735.7	8729.9	8841.0	8923.8	8957.2	8974.6	8949.2	8789.5	8427.9	8322.6	7611.7
25°	8857.0	8847.5	8998.6	9205.5	9402.3	9502.5	9570.0	9591.1	9259.2	9164.1	8312.4
27.5°	8860.6	8886.8	9106.0	9453.1	9753.0	10058.7	10382.5	10419.6	10128.4	10052.9	9109.7
30°	8880.2	8891.8	9108.9	9507.6	10132.0	10622.1	11044.0	11252.4	11001.2	10966.3	9987.5
32.5°	8631.2	8646.4	8984.1	9602.7	10418.1	11205.2	11765.0	12074.3	12011.9	11967.6	10924.2
35°	8371.9	8385.0	8777.1	9467.6	10630.9	11734.5	12416.3	13024.1	13138.1	13104.7	11969.1
37.5°	7965.3	8008.9	8419.9	9306.4	10667.9	12123.7	13037.9	13970.2	14314.4	14214.2	13074.2
40°	7523.9	7555.8	8034.3	8968.8	10626.5	12379.3	13648.5	15017.2	15434.0	15380.3	14171.3
42.5°	6966.2	7051.9	7531.1	8537.5	10413.7	12538.3	14213.4	16204.4	16810.0	16881.9	15179.1
45°	6496.4	6494.3	6939.4	7913.1	10028.2	12576.1	14733.3	17404.7	18290.5	18155.4	16511.5
47.5°	5943.9	5966.4	6431.1	7291.5	9459.6	12456.3	15138.5	18823.5	19720.2	19646.9	17604.3
50°	4665.2	4827.1	5707.2	6757.1	8690.7	12122.3	15476.1	20205.2	21061.3	21094.7	18597.6
52.5°	4021.9	4084.3	4570.1	6219.1	8008.2	11561.7	15846.4	21759.8	22357.4	22272.4	19725.3
55°	3764.1	3797.5	4030.6	5252.6	7348.1	10694.0	16024.3	23179.3	23368.1	23354.3	20653.2
57.5°	3577.5	3602.9	3768.5	4383.5	6623.5	9580.2	15874.0	24102.9	24396.3	24306.2	21528.9
60°	3308.1	3328.4	3575.3	3950.0	5877.8	8455.5	14949.7	24521.9	25142.0	25108.6	22302.9
62.5°	3105.5	3140.4	3278.3	3629.8	5241.0	7528.9	13848.2	24391.2	25631.4	25661.1	22894.0
65°	2891.3	2922.6	3039.5	3346.6	4663.7	6919.7	12660.3	23736.3	25406.3	25485.4	22989.8
67.5°	2627.0	2651.0	2789.7	3055.4	3989.2	6310.5	11320.6	22578.1	24157.4	24412.3	22035.7
70°	2294.5	2303.2	2473.1	2653.9	3312.5	5392.0	9001.5	20682.3	22350.1	22355.2	20234.3
72.5°	1826.1	1833.4	1878.4	2015.7	2488.3	4267.3	6616.2	17281.2	20152.9	20115.9	17983.4
75°	1241.6	1305.5	1461.6	1592.3	1794.9	2996.6	4114.8	11643.0	17074.3	17364.7	14771.8
77.5°	981.0	986.8	1051.4	1171.2	1346.2	2238.6	2306.1	6442.0	12729.3	13419.8	11611.1
80°	684.0	694.2	659.3	688.3	938.8	1532.1	1347.6	2803.5	5308.5	5667.9	6971.3
82.5°	326.0	337.6	387.7	360.1	466.9	651.3	711.6	1448.6	2293.0	2353.3	2714.2
85°	214.9	214.9	215.7	204.0	272.3	283.9	323.1	617.9	1119.6	1157.4	1150.9
87.5°	69.0	76.2	74.1	86.4	104.6	94.4	98.7	193.9	384.1	380.5	318.0
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°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	6227.8	6198.0	6128.3	6067.3	6007.0	5961.3	5922.1	5869.8	5845.1	5822.6	5869.8
5°	6245.9	6192.9	6068.0	5943.1	5828.4	5744.2	5692.6	5654.9	5620.8	5620.8	5636.7
7.5°	6267.0	6195.1	6016.5	5839.3	5667.2	5571.4	5498.0	5450.1	5422.5	5424.0	5458.1
10°	6280.8	6170.4	5957.7	5718.8	5531.4	5377.5	5305.6	5236.6	5184.4	5153.1	5188.0
12.5°	6296.8	6162.4	5878.5	5609.1	5381.1	5206.9	5057.3	5005.7	4954.9	4915.7	4934.6
15°	6395.5	6192.9	5812.4	5469.7	5205.4	4988.3	4792.3	4697.9	4683.4	4656.5	4663.0
17.5°	6556.7	6275.0	5769.6	5299.1	4994.1	4737.8	4489.5	4367.5	4338.5	4324.7	4331.9
20°	6797.0	6431.1	5782.7	5179.3	4756.0	4469.2	4148.2	4005.2	3908.6	3914.4	3942.7
22.5°	7164.4	6683.0	5853.8	5047.9	4498.2	4122.1	3798.2	3603.6	3506.3	3485.3	3517.2
25°	7749.7	7088.9	5932.2	4922.2	4249.1	3747.4	3388.7	3178.1	3053.3	3045.3	3080.8
27.5°	8499.7	7711.2	6102.9	4813.3	3939.8	3297.2	2940.7	2760.6	2627.8	2611.8	2600.2
30°	9267.2	8402.4	6411.5	4647.8	3579.0	2832.5	2522.5	2381.6	2232.8	2172.5	2185.6
32.5°	10080.5	9046.5	6773.1	4531.6	3175.2	2423.7	2154.3	2020.0	1883.5	1796.4	1776.0
35°	10899.5	9686.9	7077.3	4358.1	2792.6	2099.2	1841.4	1702.7	1583.6	1512.5	1507.4
37.5°	11858.0	10353.5	7321.3	4173.6	2395.4	1845.0	1535.0	1455.1	1397.7	1335.3	1341.8
40°	12817.9	11130.4	7516.6	3868.7	2065.8	1572.0	1306.3	1322.2	1334.6	1282.3	1277.9
42.5°	13615.1	11783.2	7605.9	3473.7	1773.9	1334.6	1205.3	1277.9	1331.7	1297.5	1293.2
45°	14424.7	12332.8	7571.1	2983.6	1531.3	1221.3	1197.3	1271.4	1340.4	1332.4	1328.8
47.5°	15304.8	13053.1	7510.8	2425.2	1357.8	1210.4	1214.8	1249.6	1336.8	1351.3	1345.5
50°	16380.8	13716.1	7154.3	1888.6	1273.6	1227.8	1254.0	1235.8	1309.9	1339.7	1344.7
52.5°	17451.8	14226.5	6677.2	1636.6	1240.2	1244.5	1308.4	1246.7	1279.4	1305.5	1329.5
55°	18278.2	14746.4	5905.4	1484.9	1229.3	1252.5	1323.7	1270.0	1269.2	1269.2	1277.2
57.5°	19124.1	15442.7	5133.5	1386.9	1210.4	1261.2	1305.5	1274.3	1264.1	1249.6	1240.2
60°	19712.9	15700.5	4141.7	1322.2	1190.8	1248.9	1254.7	1250.3	1219.1	1205.3	1194.4
62.5°	20235.7	15840.6	3224.6	1248.2	1163.9	1219.9	1189.4	1179.9	1161.8	1128.4	1134.2
65°	20095.6	15540.0	2457.1	1164.7	1145.1	1185.0	1132.0	1109.5	1110.9	1076.1	1087.7
67.5°	19193.8	14191.7	1764.4	1036.9	1093.5	1116.0	1066.6	1049.9	1025.3	1007.8	1023.8
70°	17372.0	12580.4	1190.1	860.4	975.9	1024.5	991.9	962.8	924.3	912.7	930.1
72.5°	14621.5	10501.6	821.2	692.0	842.3	905.4	893.1	863.3	835.7	864.1	898.2
75°	12011.9	7769.3	670.2	567.1	647.7	754.4	790.7	799.4	882.2	1158.1	1186.4
77.5°	8646.4	4816.2	602.7	461.1	517.0	603.4	676.0	705.8	1077.5	1031.8	1029.6
80°	5041.3	2807.1	459.6	363.8	418.2	442.2	528.6	828.5	929.4	797.3	777.7
82.5°	2300.3	1238.7	320.2	291.2	290.4	292.6	360.1	797.3	713.0	628.1	604.8
85°	845.9	435.7	194.6	168.5	193.1	167.7	236.0	584.5	413.2	406.6	339.1
87.5°	208.4	89.3	66.1	55.2	45.0	42.8	71.9	192.4	100.9	92.2	88.6
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)