

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: P510580

Luminaire Tested: **CST-CA10-760-722-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-722-U-T4-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76829 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

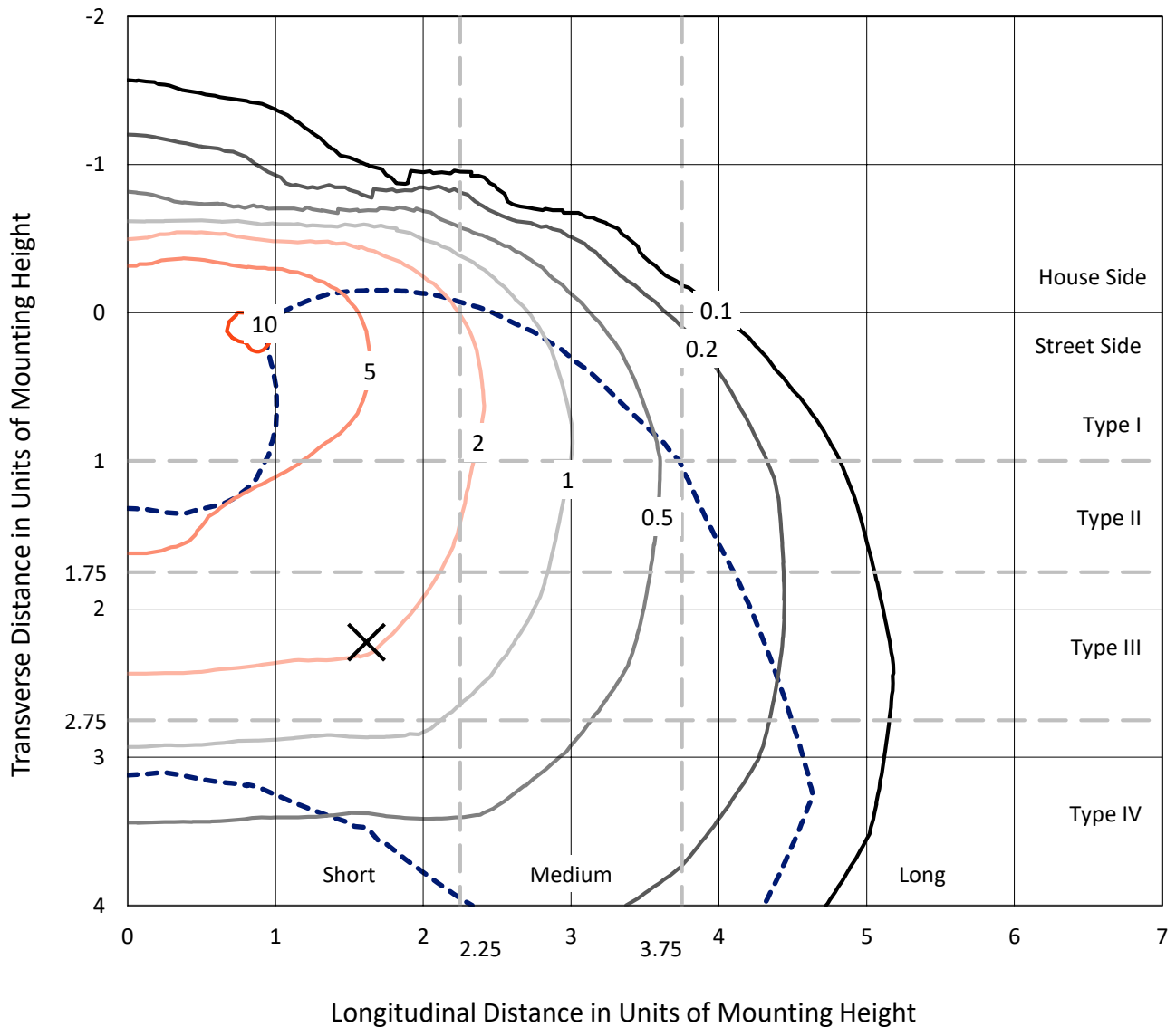
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

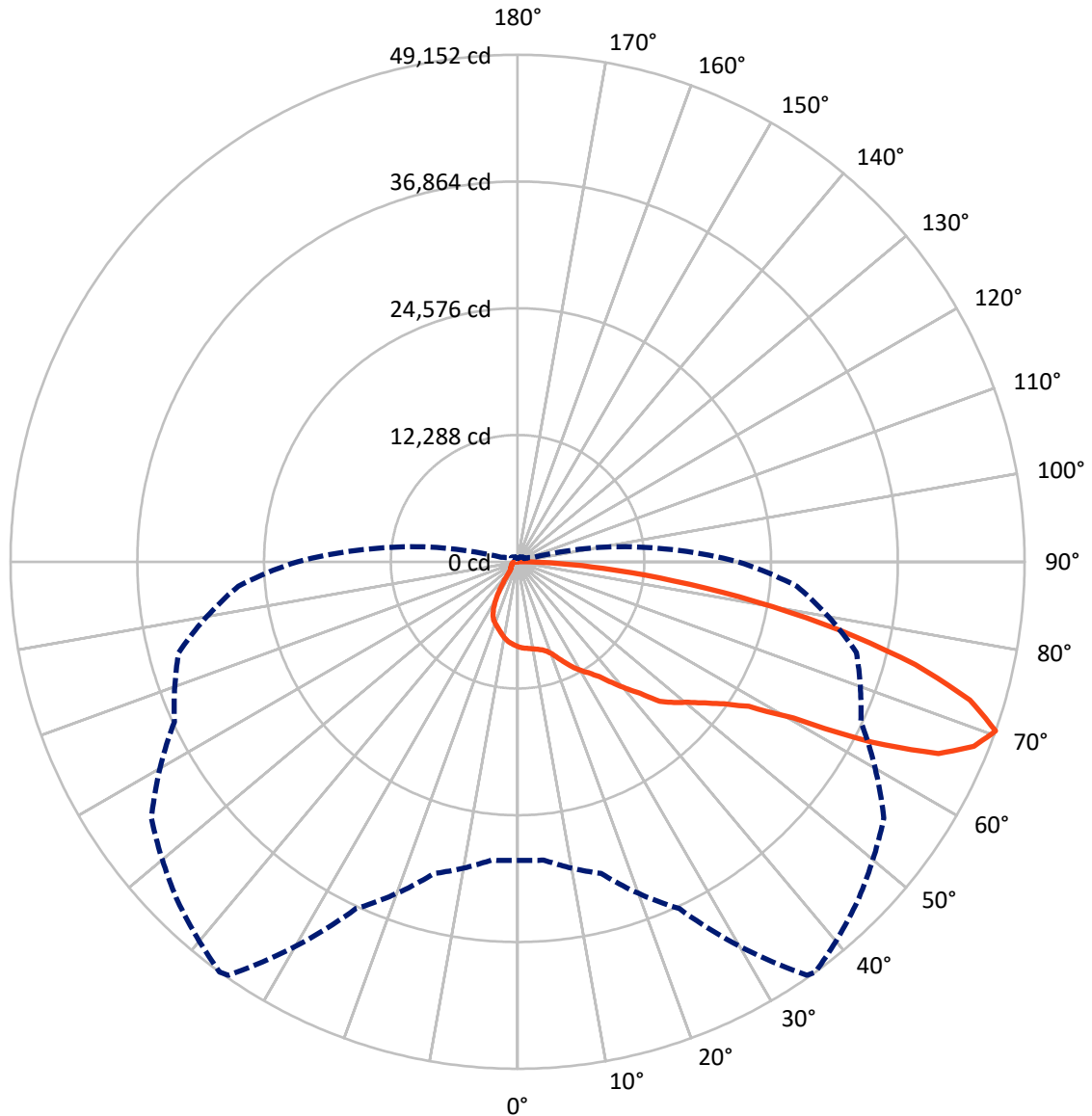
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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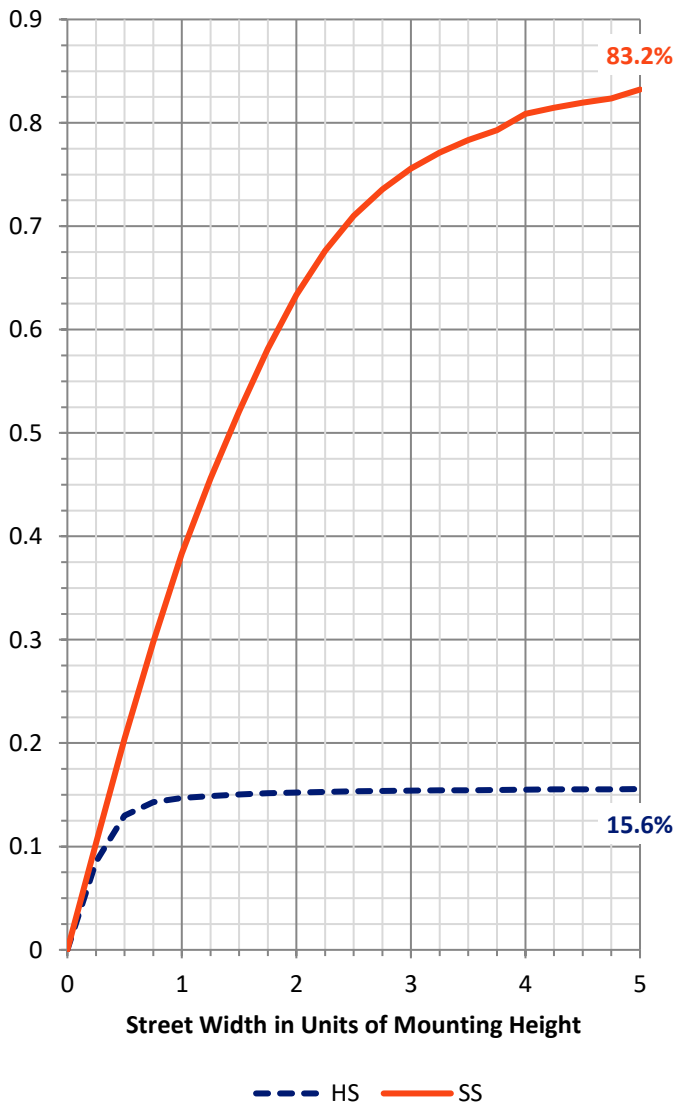
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12124.2	0.0	12124.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	64704.8	0.0	64704.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	76829.0	0.0	76829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.7	1.0
10°-20°	2321.7	3.0
20°-30°	4175.1	5.4
30°-40°	6607.0	8.6
40°-50°	10325.5	13.4
50°-60°	14827.3	19.3
60°-70°	20111.8	26.2
70°-80°	14884.9	19.4
80°-90°	2794.9	3.6
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°	76829.0	100.0
0°-180°	76829.0	100.0

Coefficient of Utilization



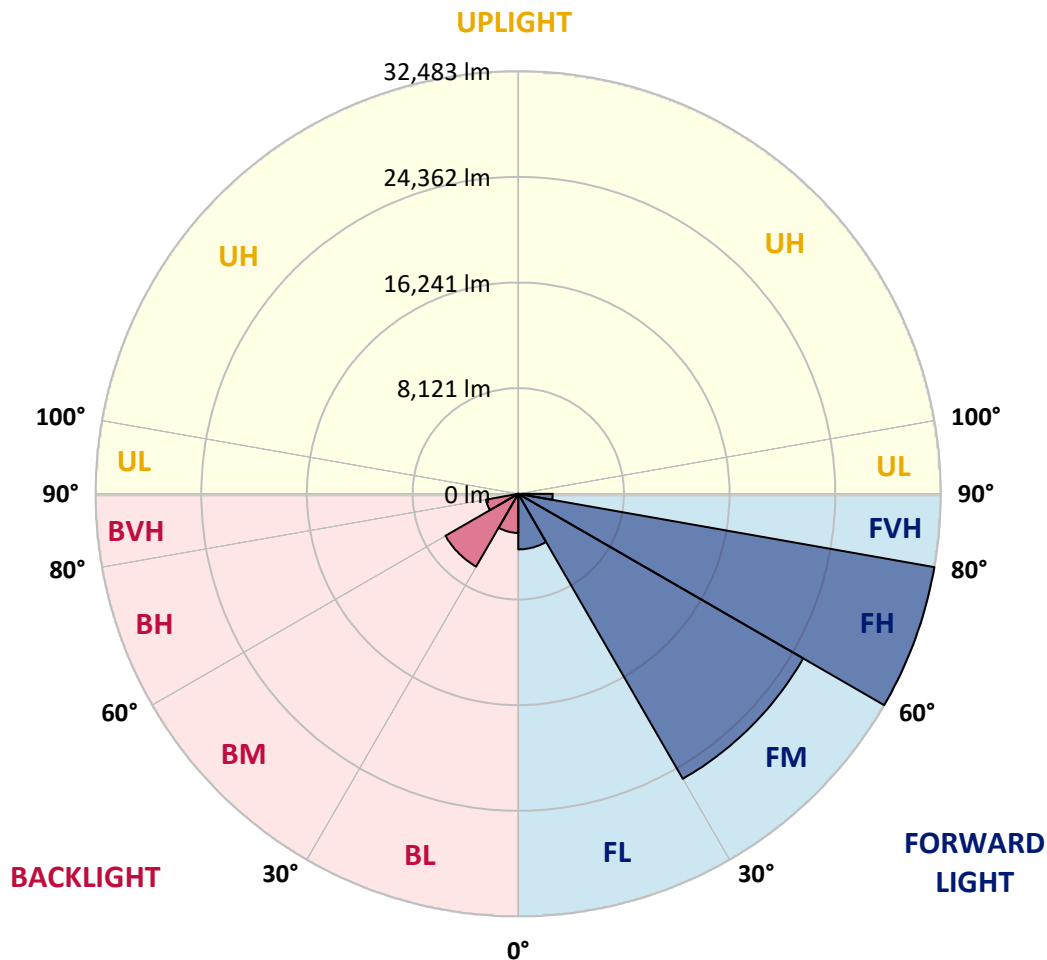
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4273.2	5.6			
FM (30°-60°)	25299.1	32.9			
FH (60°-80°)	32482.5	42.3			G5
FVH (80°-90°)	2650.0	3.4			G5
BL (0°-30°)	3004.3	3.9	B4/5000		
BM (30°-60°)	6460.7	8.4	B4/8500		
BH (60°-80°)	2514.2	3.3	B4/5000		G4/5000
BVH (80°-90°)	145.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8
2.5°	8398.6	8380.8	8366.6	8372.0	8361.3	8368.4	8352.5	8332.9	8286.8	8267.3	8258.5
5°	8473.1	8467.7	8453.6	8442.9	8423.4	8416.3	8398.6	8414.5	8389.7	8325.9	8288.6
7.5°	8517.4	8515.6	8499.7	8476.6	8487.3	8496.1	8513.9	8489.0	8457.1	8427.0	8350.7
10°	8536.9	8536.9	8517.4	8529.8	8584.8	8590.1	8599.0	8615.0	8584.8	8540.5	8464.2
12.5°	8586.6	8583.0	8590.1	8630.9	8687.7	8700.1	8744.5	8744.5	8748.0	8721.4	8632.7
15°	8710.7	8710.7	8726.7	8764.0	8861.5	8868.6	8934.2	8992.8	8999.9	8960.8	8893.4
17.5°	8998.1	8991.0	8982.1	9005.2	9109.8	9113.4	9226.9	9301.4	9320.9	9363.5	9352.8
20°	9544.4	9537.3	9535.5	9537.3	9530.2	9519.6	9631.3	9711.1	9810.5	9885.0	9922.2
22.5°	10326.6	10310.6	10310.6	10223.7	10156.3	10167.0	10184.7	10229.1	10360.3	10491.6	10631.7
25°	11169.1	11158.5	11167.4	10945.6	10855.2	10890.7	10867.6	10936.8	11108.8	11222.3	11371.3
27.5°	11857.3	11873.3	11823.6	11651.6	11593.0	11619.7	11566.4	11765.1	11954.9	12153.5	12378.8
30°	12714.0	12628.9	12506.5	12297.2	12275.9	12279.5	12275.9	12595.2	12989.0	13272.8	13584.9
32.5°	13833.3	13847.4	13572.5	13079.4	12898.5	12873.7	12944.6	13412.9	13945.0	14574.7	14986.2
35°	14964.9	14988.0	14787.5	14273.1	13757.0	13678.9	13574.3	14182.7	14950.7	16213.6	16834.4
37.5°	16165.7	16247.3	16009.6	15550.2	14938.3	14865.6	14370.7	14968.4	16103.6	18154.0	18968.2
40°	17772.7	17685.8	17398.4	16814.9	16245.5	16128.5	15553.8	15867.7	17586.5	20584.0	21174.7
42.5°	18957.5	18932.7	18689.7	18113.3	17540.3	17446.3	16983.4	17323.9	19454.2	23047.7	23312.0
45°	19897.6	20050.2	20044.8	19683.0	19360.2	19307.0	19033.8	19535.8	21712.1	25373.1	25243.6
47.5°	20733.0	20827.0	20676.3	20518.4	20367.7	20385.4	20587.6	21619.9	24019.7	27404.0	26831.1
50°	22100.6	21980.0	21304.2	21183.6	21396.4	21405.3	22020.8	23610.0	26561.5	29160.0	28175.6
52.5°	23924.0	23792.7	22403.9	22198.1	22701.9	22739.1	23762.6	25593.0	29183.1	30837.9	29513.0
55°	26637.8	26332.7	24844.5	23922.2	24152.8	24303.5	25543.4	27499.8	31235.2	32317.2	30525.8
57.5°	29970.6	30192.3	29429.6	27345.5	26385.9	26442.6	27581.4	29324.9	33046.2	33612.0	31118.2
60°	33493.2	33440.0	33759.3	32881.3	31043.7	30738.6	30158.6	31187.4	34449.2	34702.9	31728.3
62.5°	35423.0	35733.4	36797.6	36973.2	38631.7	38470.3	34516.6	33496.7	36070.4	35387.5	31895.1
65°	35412.4	35547.2	37528.4	39706.5	44887.6	44841.5	43003.9	36836.7	37278.3	35752.9	31561.6
67.5°	33124.3	33333.6	35650.0	39905.2	47778.8	47723.8	46453.8	41531.7	37657.9	35313.0	30006.1
70°	28952.5	29023.4	31283.1	37108.0	48940.5	49151.6	46572.6	43333.8	36714.3	34005.8	27169.9
72.5°	23884.9	23737.7	25947.8	31689.3	45982.0	45856.0	44603.8	41182.3	35125.0	31467.6	22159.1
75°	17586.5	17996.2	19979.2	25444.0	39369.5	39830.7	40385.9	37890.3	31196.2	25933.6	15323.2
77.5°	11612.6	12134.0	14138.3	19078.2	31167.8	31884.4	33322.9	32226.8	25378.4	18602.8	7297.1
80°	6000.5	6394.3	8198.1	12659.1	22343.6	23377.7	26015.2	24408.2	17992.6	8411.0	1633.6
82.5°	2270.4	2218.9	3673.4	7245.7	14326.4	15266.4	17183.8	14636.8	6403.1	1477.5	759.2
85°	996.8	1055.4	1521.9	3304.4	8191.0	8313.4	9734.2	5706.1	938.3	705.9	516.2
87.5°	431.0	494.9	638.5	950.7	2763.5	3190.9	3948.3	1812.7	283.8	244.8	259.0
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°	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8	8231.8
2.5°	8242.5	8231.8	8214.1	8169.8	8097.0	8088.2	8081.1	8074.0	8059.8	8066.9	8107.7
5°	8260.2	8240.7	8176.9	8113.0	8049.2	7992.4	7923.2	7896.6	7861.1	7838.1	7880.6
7.5°	8320.5	8279.7	8185.7	8098.8	7925.0	7841.6	7752.9	7648.3	7573.8	7525.9	7568.5
10°	8421.6	8370.2	8253.1	8074.0	7870.0	7641.2	7485.1	7311.3	7169.4	7130.4	7169.4
12.5°	8586.6	8510.3	8373.7	8130.7	7768.9	7469.1	7172.9	6944.1	6715.3	6649.7	6669.2
15°	8854.4	8794.1	8584.8	8249.6	7770.7	7313.1	6873.2	6504.2	6204.5	6099.8	6092.7
17.5°	9283.7	9219.8	8978.6	8485.5	7834.5	7190.7	6578.7	6016.5	5562.4	5331.8	5294.6
20°	9899.1	9810.5	9445.1	8833.1	7972.9	7137.5	6305.6	5550.0	4844.0	4411.2	4345.6
22.5°	10583.8	10489.8	9950.6	9101.0	8072.2	7032.8	6044.8	5033.8	4104.4	3575.8	3501.3
25°	11435.2	11229.4	10434.8	9354.6	8049.2	6812.9	5620.9	4333.2	3325.7	2868.1	2818.4
27.5°	12275.9	12015.2	10927.9	9487.6	7948.0	6463.4	5000.1	3513.7	2603.8	2279.2	2238.4
30°	13318.9	12815.1	11366.0	9549.7	7692.6	5940.2	4168.2	2671.2	1949.3	1725.8	1686.8
32.5°	14558.7	13796.0	11777.5	9480.5	7266.9	5142.0	3240.6	1956.4	1449.1	1309.0	1307.2
35°	16194.1	14998.6	12229.8	9253.5	6614.2	4281.8	2272.1	1337.4	1129.9	1082.0	1090.8
37.5°	18106.2	16626.9	12689.2	8881.0	5876.3	3276.1	1514.8	1030.5	993.3	995.1	996.8
40°	20122.9	18425.4	13308.2	8357.8	4980.6	2371.5	1090.8	925.9	924.1	941.8	947.2
42.5°	22049.1	20172.5	14070.9	7660.7	4042.3	1568.0	945.4	883.3	860.3	867.4	872.7
45°	23838.8	21671.3	14720.1	6981.4	3036.6	1119.2	927.7	833.6	798.2	794.6	798.2
47.5°	25280.9	22872.1	15115.7	6183.2	2163.9	929.4	890.4	787.5	737.9	727.2	721.9
50°	26378.8	23764.3	15259.3	5278.6	1463.3	886.9	840.7	734.3	674.0	675.8	675.8
52.5°	27450.1	24574.9	15092.6	4366.9	1076.6	849.6	807.0	691.8	627.9	661.6	670.5
55°	28221.7	24915.5	14606.6	3380.7	897.5	803.5	769.8	642.1	597.7	652.7	670.5
57.5°	28672.2	25183.3	13714.4	2440.6	823.0	759.2	721.9	596.0	555.2	569.4	578.2
60°	28952.5	24809.1	12534.9	1669.1	784.0	723.7	674.0	565.8	510.8	477.1	471.8
62.5°	28798.2	23872.5	10981.1	1147.6	743.2	684.7	633.2	537.4	464.7	420.4	416.8
65°	27540.6	22139.6	8430.5	929.4	718.4	666.9	608.4	510.8	432.8	390.2	384.9
67.5°	25208.1	19024.9	4923.9	826.6	707.7	649.2	588.9	486.0	415.1	368.9	361.8
70°	21375.1	14310.4	1649.6	737.9	705.9	647.4	572.9	468.3	395.5	347.6	340.6
72.5°	15420.7	8634.5	803.5	649.2	659.8	620.8	560.5	454.1	383.1	322.8	310.4
75°	8764.0	2811.3	725.5	560.5	613.7	592.4	553.4	455.8	388.4	292.7	278.5
77.5°	2493.9	821.2	700.6	477.1	580.0	611.9	517.9	411.5	397.3	271.4	253.6
80°	842.5	730.8	675.8	370.7	468.3	505.5	448.8	361.8	400.9	246.5	228.8
82.5°	675.8	734.3	567.6	296.2	356.5	383.1	356.5	324.6	324.6	219.9	205.8
85°	541.0	681.1	360.1	235.9	266.1	294.4	251.9	243.0	227.0	184.5	179.1
87.5°	313.9	212.8	149.0	120.6	111.7	113.5	97.6	117.1	143.7	125.9	124.2
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)