

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: P510678

Luminaire Tested: **CST-CA6-230-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA6-230-750-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32723 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

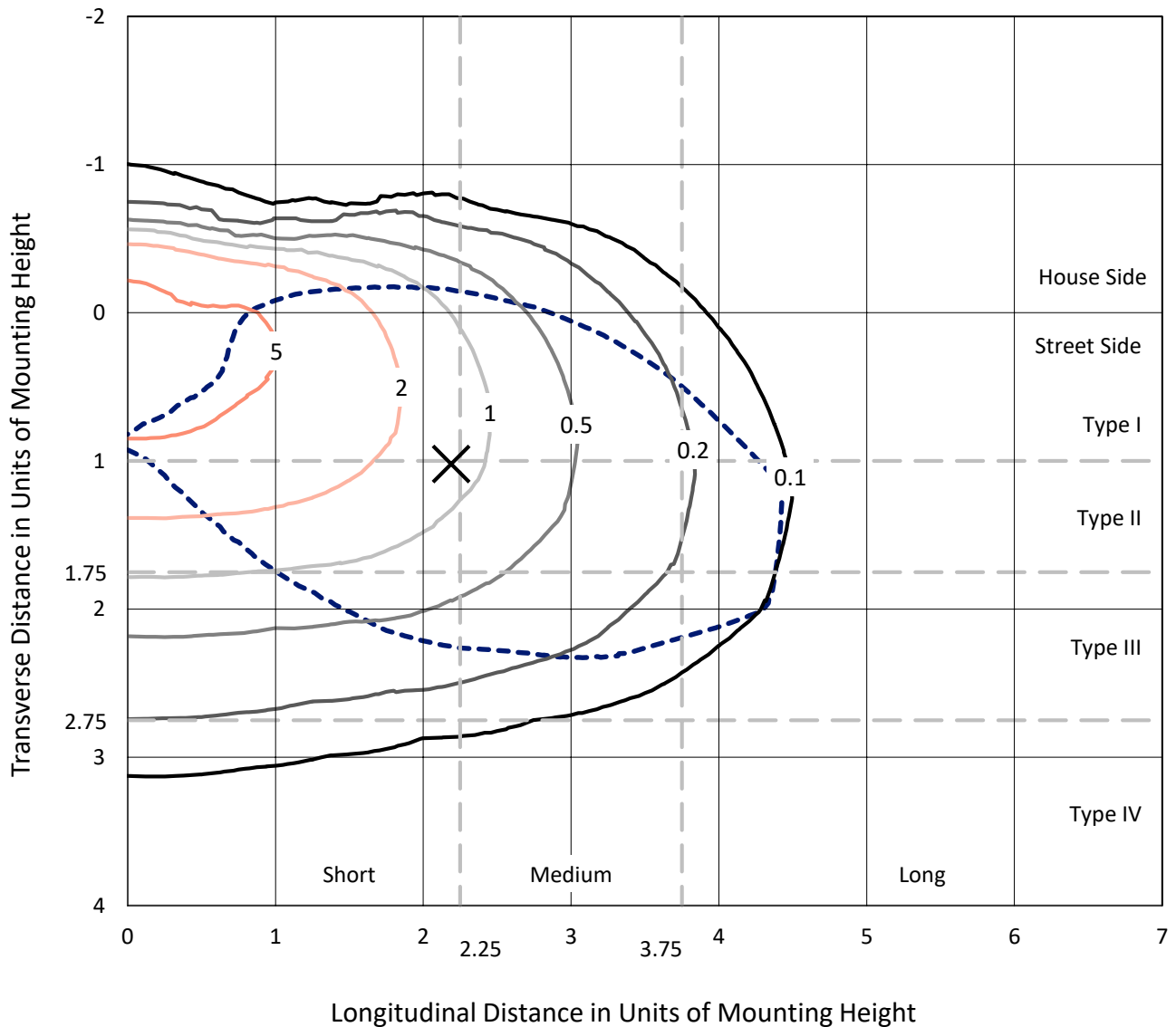
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

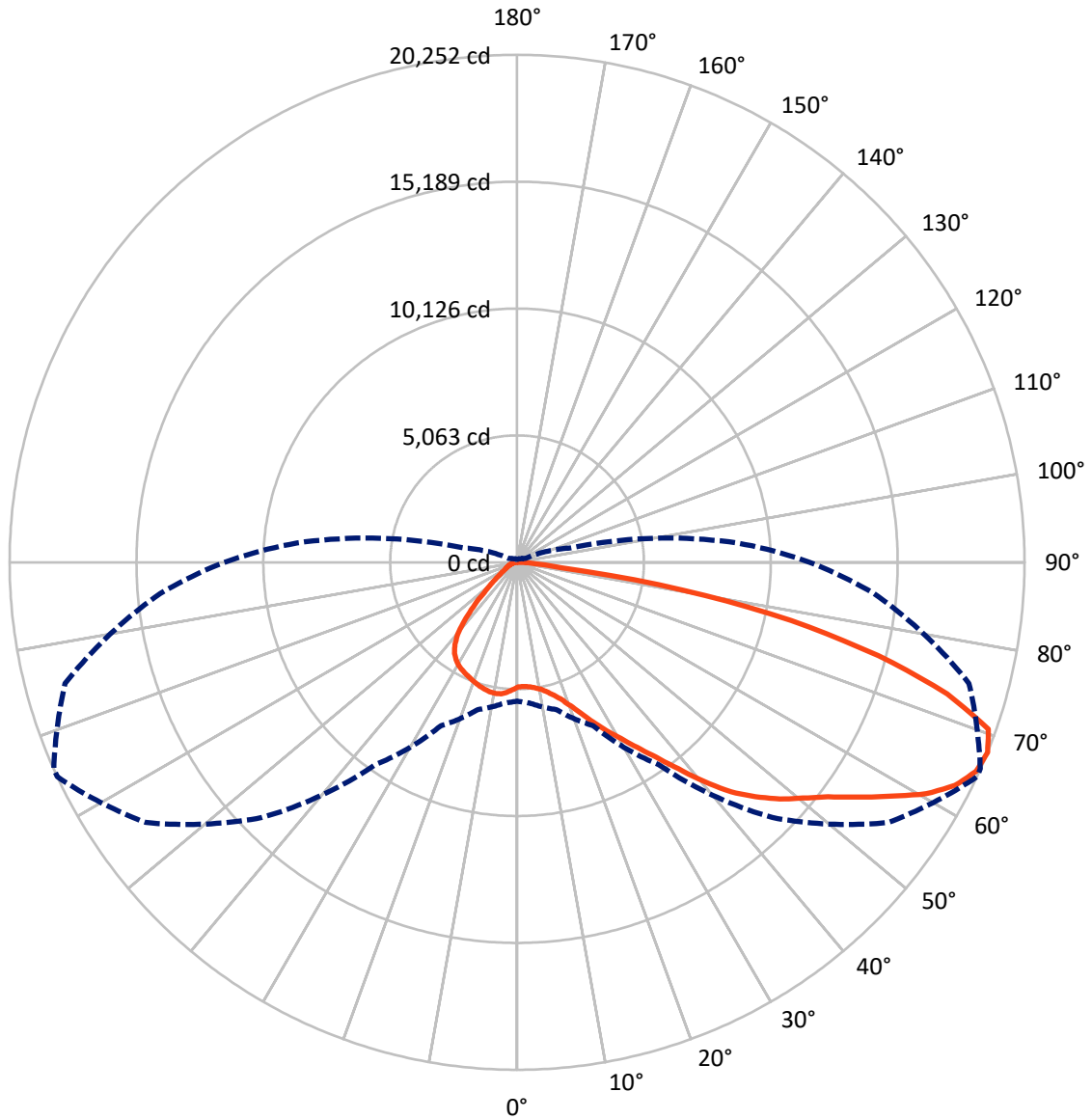
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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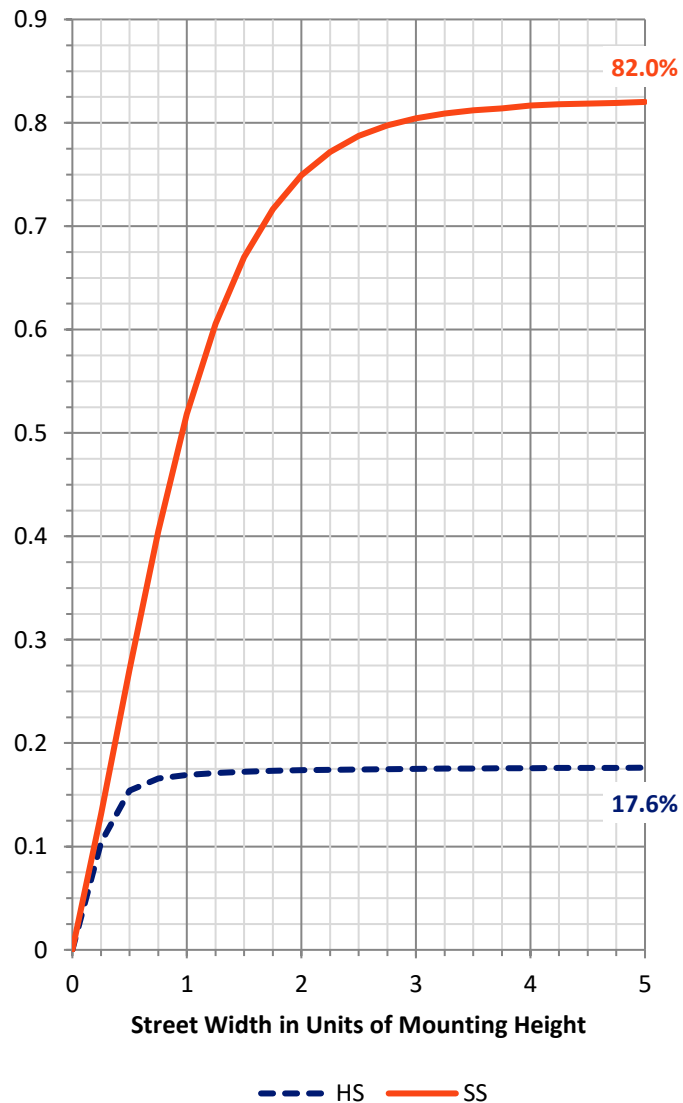
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5848.4	0.0	5848.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	26874.6	0.0	26874.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	32723.0	0.0	32723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	1.5
10°-20°	1518.8	4.6
20°-30°	2634.8	8.1
30°-40°	3974.6	12.1
40°-50°	5511.0	16.8
50°-60°	6802.7	20.8
60°-70°	7248.1	22.1
70°-80°	4147.5	12.7
80°-90°	393.5	1.2
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°	32723.0	100.0
0°-180°	32723.0	100.0

Coefficient of Utilization

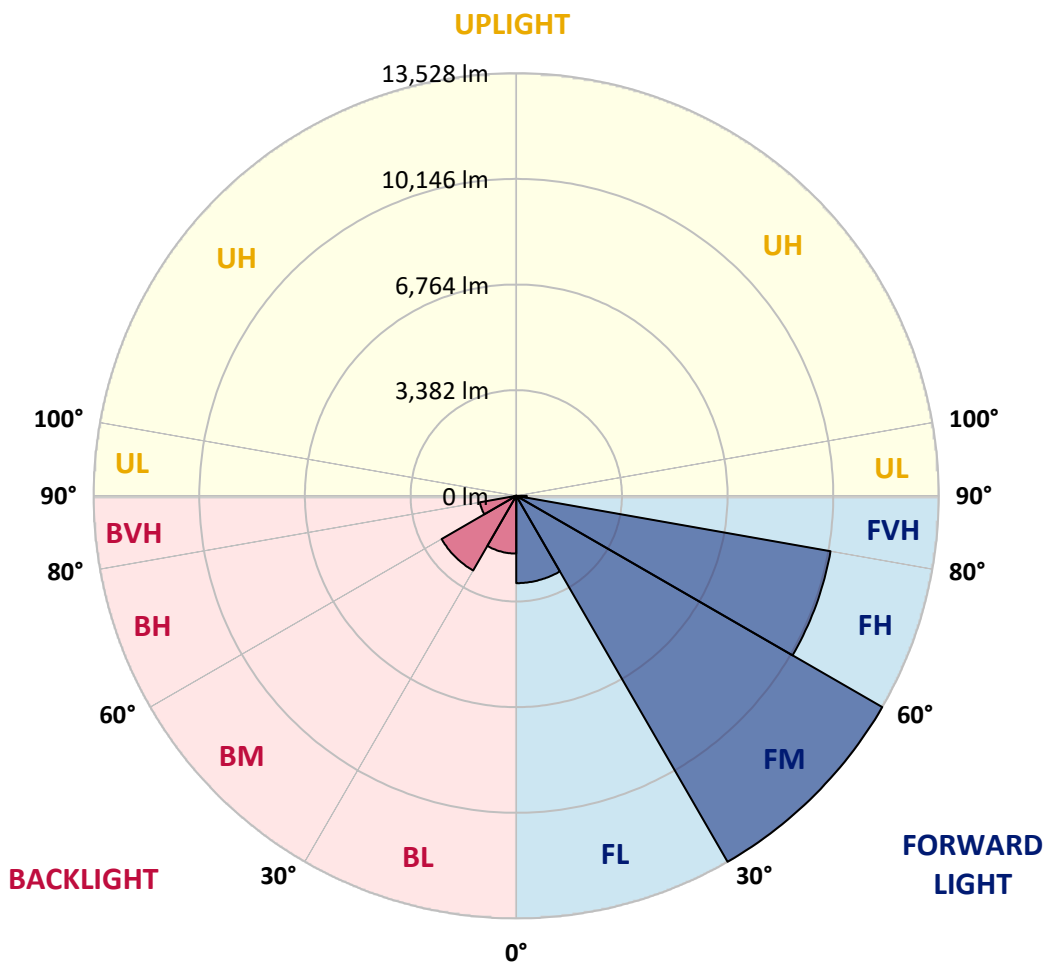


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.0	8.5			
FM (30°-60°)	13528.2	41.3			
FH (60°-80°)	10215.2	31.2			G4/12000
FVH (80°-90°)	336.2	1.0			G3/500
BL (0°-30°)	1850.6	5.7	B3/2500		
BM (30°-60°)	2760.1	8.4	B3/5000		
BH (60°-80°)	1180.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	57.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5
2.5°	4924.4	4918.0	4912.3	4922.3	4928.0	4937.3	4951.0	4960.3	4963.2	4971.8	4982.5
5°	5003.3	5002.6	4994.7	4990.4	4978.2	4973.9	4976.8	4988.2	4989.0	4999.7	5033.4
7.5°	5158.1	5156.7	5137.3	5128.7	5102.9	5074.3	5052.8	5054.9	5054.2	5064.9	5110.1
10°	5391.8	5380.3	5353.1	5326.6	5276.4	5222.6	5183.2	5147.4	5147.4	5163.1	5213.3
12.5°	5655.6	5671.4	5634.1	5593.9	5510.1	5413.3	5344.5	5304.4	5300.1	5307.9	5343.8
15°	5983.2	5983.2	5958.1	5900.7	5826.9	5692.1	5550.2	5499.3	5492.2	5508.6	5506.5
17.5°	6352.3	6363.1	6315.8	6287.1	6173.8	6024.7	5847.0	5758.8	5758.8	5748.1	5698.6
20°	6823.3	6764.5	6769.5	6722.2	6639.0	6422.6	6241.9	6113.6	6112.2	6090.7	5951.6
22.5°	7335.1	7302.8	7274.8	7233.3	7118.6	6925.0	6674.2	6547.3	6544.4	6491.4	6284.9
25°	7839.7	7864.1	7833.2	7757.3	7673.4	7462.7	7186.0	7061.2	7060.5	6972.4	6679.9
27.5°	8358.7	8385.2	8375.1	8306.3	8194.5	8029.6	7768.0	7605.3	7595.3	7537.9	7170.2
30°	8932.1	8908.4	8939.3	8909.9	8854.0	8585.2	8348.6	8159.4	8183.8	8166.6	7727.2
32.5°	9349.3	9364.3	9465.4	9468.3	9409.5	9210.2	8921.3	8805.2	8843.9	8821.0	8411.7
35°	9726.3	9750.7	9881.2	10009.5	10052.5	9834.6	9540.7	9533.5	9583.7	9723.5	9355.0
37.5°	10050.3	10067.5	10250.3	10417.3	10556.4	10407.3	10193.7	10448.1	10522.0	10808.0	10328.4
40°	10244.6	10266.8	10503.3	10738.4	10986.5	10933.4	10913.3	11515.5	11585.0	11836.6	11038.8
42.5°	10134.9	10178.6	10572.9	11003.0	11367.8	11473.9	11748.4	12522.6	12602.1	12623.6	11737.0
45°	9939.2	9993.7	10434.5	11130.5	11725.5	12066.0	12588.5	13343.3	13387.0	13326.1	12315.4
47.5°	9728.5	9786.5	10279.0	11092.6	12012.9	12754.8	13339.0	14116.0	14146.9	13959.8	12898.2
50°	9489.1	9542.8	10072.5	11003.7	12229.4	13405.0	14110.3	14784.1	14899.5	14529.6	13351.2
52.5°	9198.0	9255.4	9817.4	10864.6	12419.4	13887.4	14790.5	15538.9	15546.8	15242.1	13861.6
55°	8821.0	8920.6	9496.9	10623.8	12519.0	14301.7	15383.3	16537.4	16588.3	16293.7	14288.8
57.5°	8401.7	8488.4	9111.3	10302.6	12429.4	14616.4	16336.7	17608.3	17601.9	17010.5	14662.2
60°	7847.6	7909.2	8608.8	9882.6	12140.5	14997.0	17329.5	18755.9	18744.4	17713.0	14902.4
62.5°	7136.5	7198.2	7856.2	9223.8	11716.2	15252.2	18003.3	19615.4	19582.4	18224.0	14976.2
65°	6312.2	6422.6	6993.9	8368.7	10965.7	15084.4	18328.7	20121.4	20068.4	18614.0	14799.9
67.5°	5539.5	5633.4	6085.7	7191.7	9858.2	14404.2	18099.3	20251.9	20236.1	18670.6	14301.7
70°	4445.6	4480.0	4894.3	5841.2	8202.4	12947.6	17306.5	19950.8	19958.0	18148.8	13301.0
72.5°	3042.8	3126.7	3310.9	4058.5	5968.8	10296.9	14916.7	17955.2	17956.7	16273.6	11588.6
75°	1636.5	1766.2	1981.2	2351.8	3336.7	6607.5	11979.2	14898.8	14926.7	13568.4	9210.9
77.5°	811.4	858.0	982.7	1258.0	1529.7	3117.4	7704.2	11183.6	11250.2	10415.2	6282.1
80°	371.3	379.2	388.5	386.4	585.6	1367.7	3307.3	6716.5	6736.5	6194.6	2867.9
82.5°	290.3	288.9	293.2	266.7	268.1	527.6	1144.7	1759.0	1875.9	1476.6	909.6
85°	175.6	174.9	188.5	146.2	179.9	285.3	577.7	701.8	710.4	577.7	470.9
87.5°	66.7	64.5	59.5	52.3	60.2	80.3	200.0	258.0	252.3	179.2	162.7
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°	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5	4972.5
2.5°	4991.8	5014.8	5057.1	5089.3	5100.1	5134.5	5167.4	5173.2	5196.8	5206.2	5237.0
5°	5054.2	5092.9	5158.8	5202.6	5221.9	5279.3	5316.5	5335.2	5328.7	5332.3	5366.7
7.5°	5145.2	5181.8	5234.8	5287.9	5297.2	5307.2	5303.6	5300.8	5275.7	5254.2	5286.4
10°	5228.4	5262.8	5295.8	5303.6	5256.3	5229.8	5182.5	5145.9	5097.2	5075.0	5100.8
12.5°	5345.2	5352.4	5320.1	5277.1	5175.3	5080.7	5004.0	4937.3	4877.1	4835.6	4870.0
15°	5468.5	5440.5	5346.6	5221.2	5063.5	4928.0	4802.6	4691.5	4591.9	4567.5	4576.8
17.5°	5631.9	5556.0	5366.7	5156.0	4910.8	4700.1	4538.8	4398.3	4267.9	4213.4	4208.4
20°	5831.2	5708.6	5407.6	5073.5	4730.2	4449.9	4200.5	3990.5	3810.5	3662.9	3666.5
22.5°	6090.7	5912.9	5469.2	4987.5	4530.2	4156.7	3794.0	3437.1	3141.0	3013.4	2981.9
25°	6433.3	6168.1	5556.7	4909.4	4306.6	3784.0	3271.5	2767.6	2454.3	2330.3	2316.7
27.5°	6859.8	6510.7	5690.0	4822.7	4067.1	3341.7	2604.9	2111.0	1823.6	1693.1	1649.4
30°	7344.4	6932.9	5826.9	4732.3	3777.6	2773.3	1986.3	1502.4	1207.8	1091.0	1075.9
32.5°	7971.6	7467.7	6030.5	4590.4	3354.6	2179.8	1385.6	937.6	737.6	687.4	673.1
35°	8862.6	8190.9	6282.1	4411.2	2811.3	1522.5	858.7	549.1	442.3	417.2	412.2
37.5°	9693.3	8900.6	6535.8	4113.7	2134.6	950.5	491.0	352.0	328.3	329.0	330.4
40°	10352.1	9385.8	6740.8	3722.4	1404.2	539.8	341.2	292.5	293.2	291.0	289.6
42.5°	10938.4	9772.9	6833.3	3143.9	813.6	361.3	296.0	269.5	263.1	265.2	263.8
45°	11423.7	10167.9	6654.1	2493.8	479.5	324.0	279.6	250.2	243.0	254.5	255.9
47.5°	11934.1	10542.8	6379.6	1878.7	389.2	308.2	264.5	235.8	232.2	246.6	248.0
50°	12363.4	10814.4	5911.5	1415.7	371.3	291.0	250.9	221.5	220.8	233.7	233.7
52.5°	12722.6	10978.6	5356.0	1093.1	359.1	276.0	237.3	207.9	207.9	212.2	212.9
55°	12975.6	10945.6	5024.8	860.2	346.2	261.6	222.9	195.0	186.4	183.5	184.9
57.5°	13021.5	10858.2	4640.6	670.9	331.2	248.0	210.0	179.9	164.1	162.0	161.3
60°	12992.1	10666.1	4201.9	560.5	314.0	235.1	197.1	164.1	148.4	143.4	144.8
62.5°	12869.5	10325.6	3695.1	491.7	296.8	225.1	182.8	153.4	139.1	132.6	132.6
65°	12499.6	9838.1	2942.5	430.8	275.3	214.3	171.3	149.1	133.3	126.2	124.7
67.5°	11686.8	8826.7	2211.3	377.8	254.5	202.9	169.9	148.4	130.5	120.4	119.0
70°	10596.5	7582.4	1509.6	331.9	231.5	192.1	169.2	149.1	127.6	114.7	113.3
72.5°	8846.1	5977.4	869.5	288.9	208.6	182.1	166.3	149.8	122.6	106.8	104.7
75°	6646.9	4192.6	510.4	248.0	186.4	167.0	158.4	145.5	114.7	97.5	95.3
77.5°	3997.6	1957.6	384.2	205.7	159.8	146.9	141.2	133.3	104.7	90.3	88.2
80°	1466.6	743.3	301.8	164.9	126.9	127.6	121.9	116.8	95.3	83.1	81.7
82.5°	639.4	454.5	222.9	125.4	99.6	114.0	100.4	96.1	81.7	74.5	71.7
85°	387.8	271.0	143.4	85.3	68.8	77.4	70.2	73.8	63.1	58.8	56.6
87.5°	128.3	81.0	63.8	41.6	34.4	32.3	31.5	38.0	35.8	33.0	33.0
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)