

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: P510638

Luminaire Tested: **CST-CA6-230-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510638
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-CA6-230-722-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26189 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

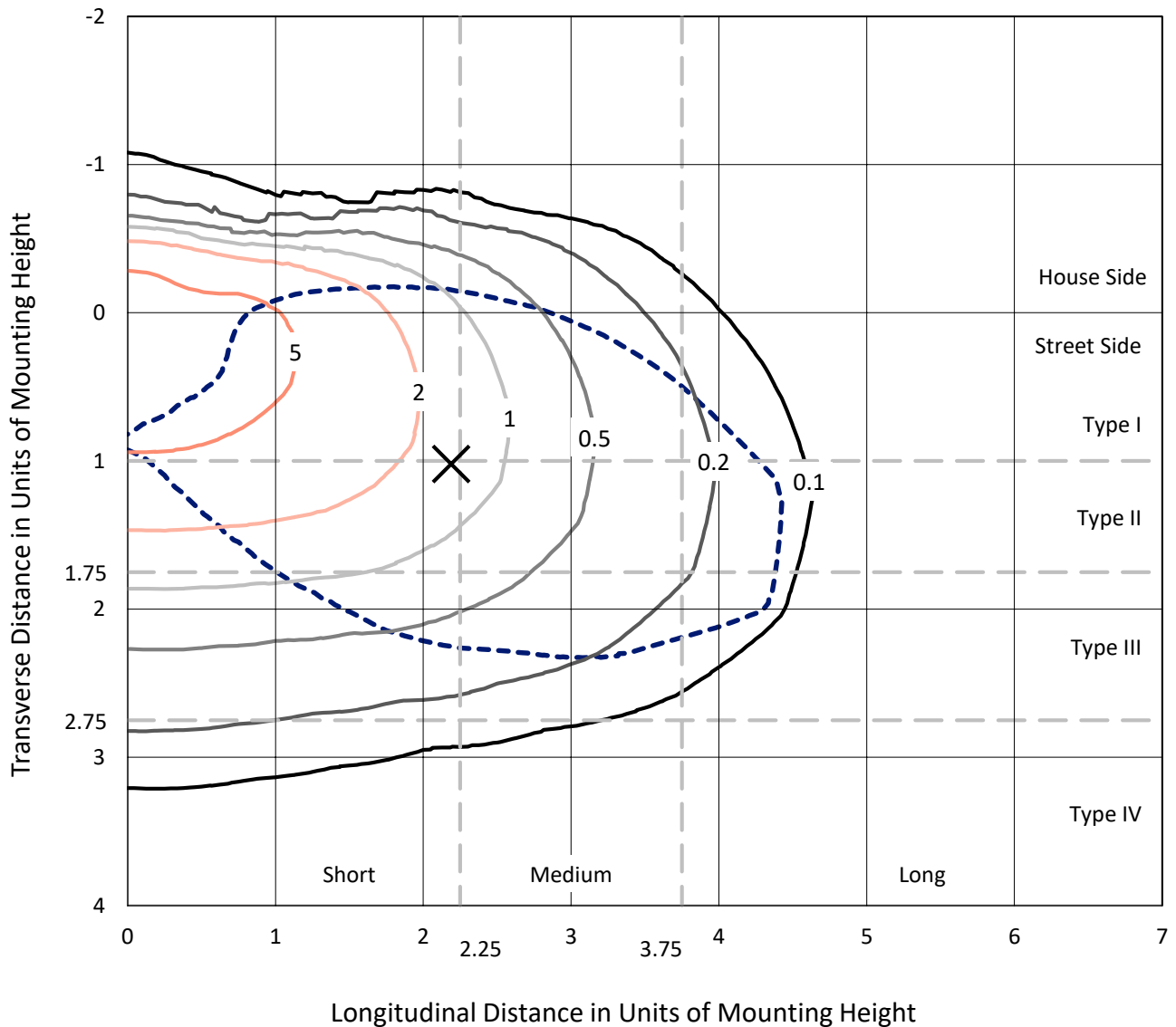
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

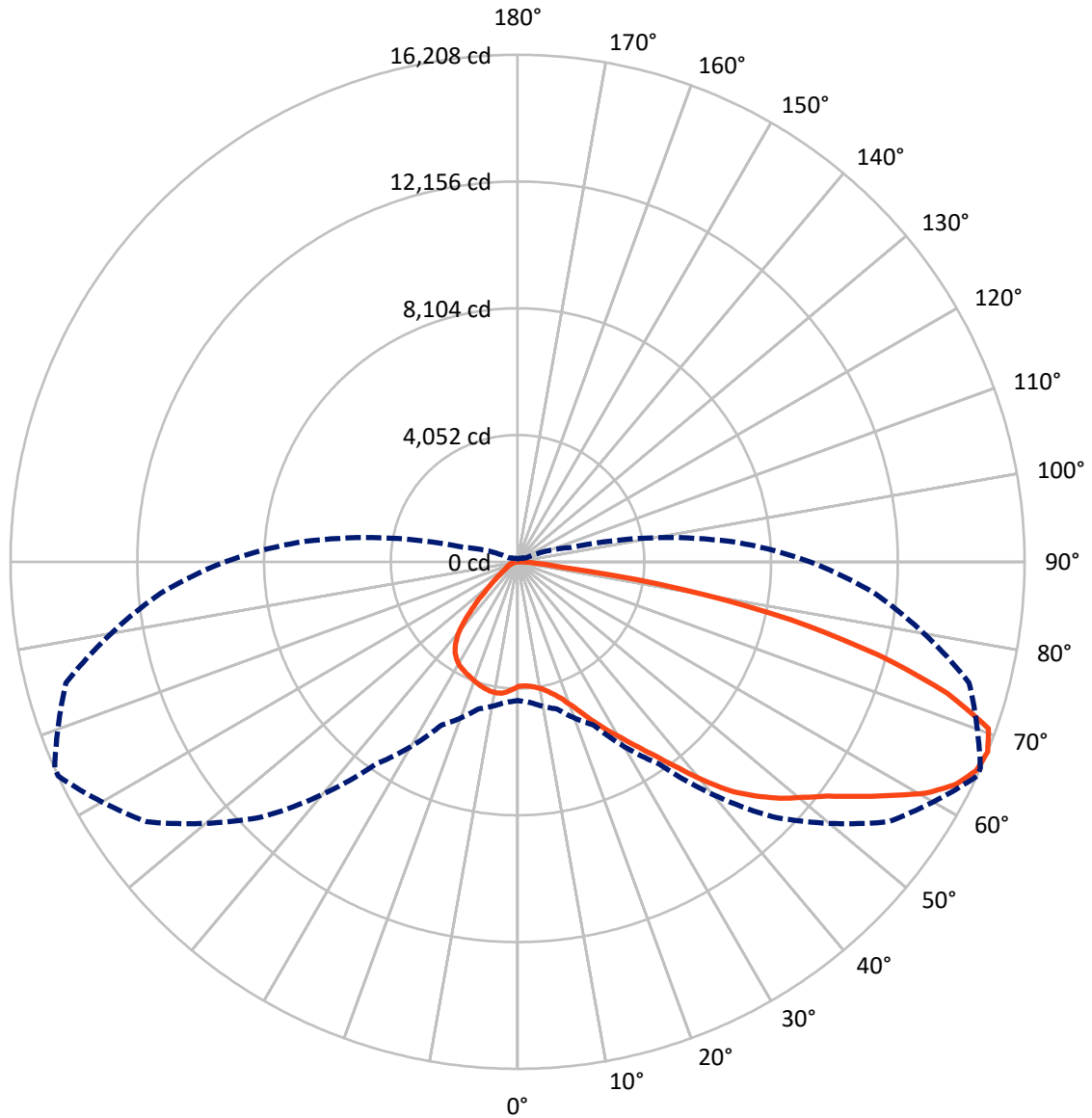
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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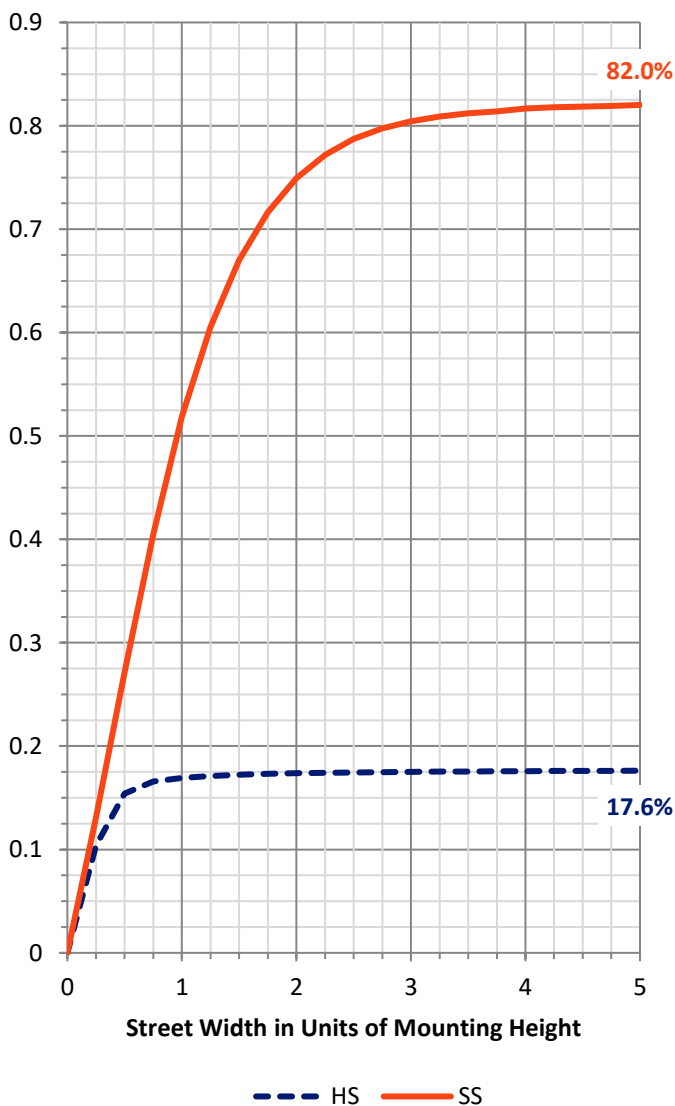
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4680.6	0.0	4680.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	21508.4	0.0	21508.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	26189.0	0.0	26189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.7	1.5
10°-20°	1215.5	4.6
20°-30°	2108.7	8.1
30°-40°	3181.0	12.1
40°-50°	4410.6	16.8
50°-60°	5444.3	20.8
60°-70°	5800.9	22.1
70°-80°	3319.3	12.7
80°-90°	314.9	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°	26189.0	100.0
0°-180°	26189.0	100.0

Coefficient of Utilization



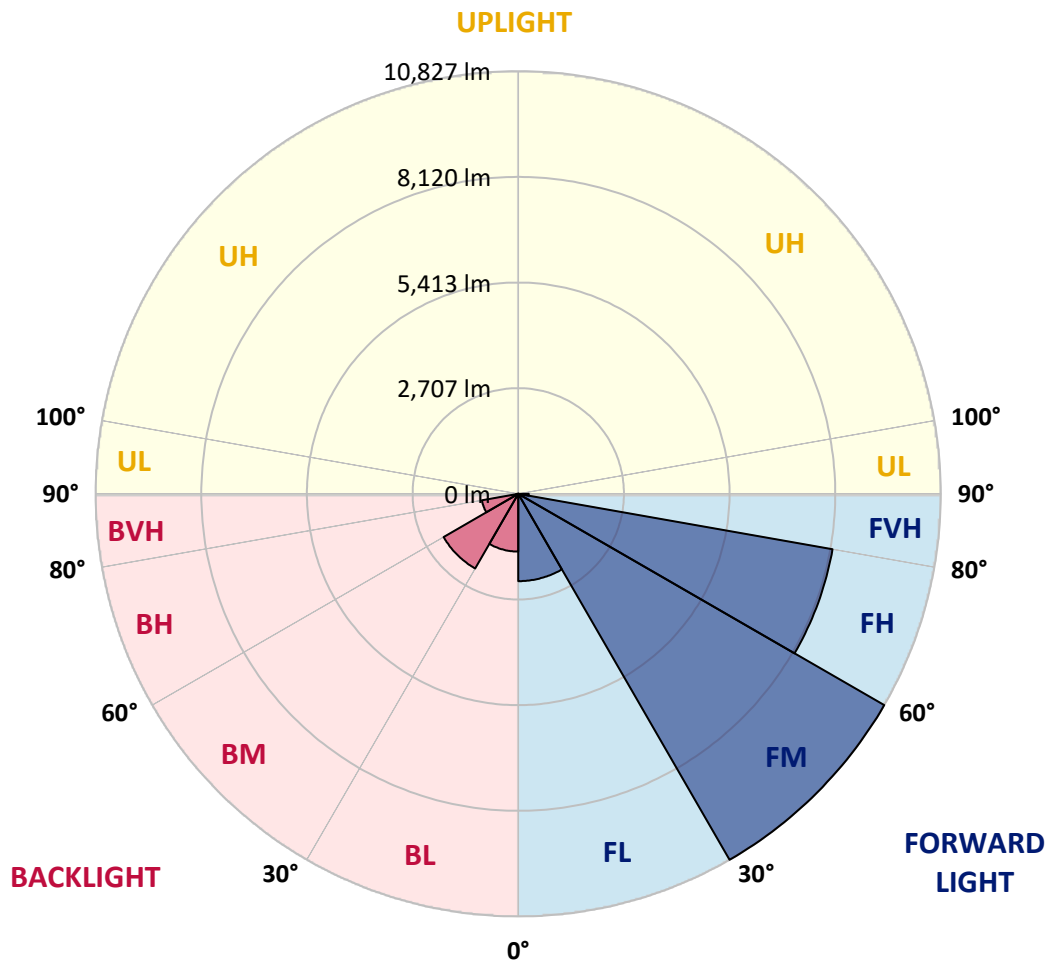
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.9	8.5			
FM (30°-60°)	10826.9	41.3			
FH (60°-80°)	8175.5	31.2			G4/12000
FVH (80°-90°)	269.1	1.0			G3/500
BL (0°-30°)	1481.1	5.7	B3/2500		
BM (30°-60°)	2209.0	8.4	B2/2500		
BH (60°-80°)	944.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	3941.2	3936.0	3931.4	3939.4	3944.0	3951.5	3962.4	3969.8	3972.1	3979.0	3987.6
5°	4004.3	4003.7	3997.4	3993.9	3984.2	3980.7	3983.0	3992.2	3992.8	4001.4	4028.4
7.5°	4128.2	4127.0	4111.5	4104.7	4084.0	4061.1	4043.8	4045.6	4045.0	4053.6	4089.7
10°	4315.2	4306.0	4284.2	4263.0	4222.8	4179.8	4148.3	4119.6	4119.6	4132.2	4172.3
12.5°	4526.3	4538.9	4509.1	4477.0	4409.8	4332.4	4277.3	4245.2	4241.8	4248.1	4276.8
15°	4788.5	4788.5	4768.4	4722.5	4663.4	4555.6	4442.0	4401.2	4395.5	4408.7	4407.0
17.5°	5083.9	5092.5	5054.7	5031.7	4941.1	4821.7	4679.5	4608.9	4608.9	4600.3	4560.7
20°	5460.8	5413.8	5417.8	5379.9	5313.4	5140.1	4995.6	4892.9	4891.7	4874.5	4763.2
22.5°	5870.4	5844.6	5822.2	5789.0	5697.2	5542.3	5341.5	5240.0	5237.7	5195.2	5030.0
25°	6274.3	6293.8	6269.1	6208.3	6141.2	5972.5	5751.1	5651.3	5650.7	5580.1	5346.1
27.5°	6689.6	6710.9	6702.8	6647.8	6558.3	6426.3	6216.9	6086.7	6078.7	6032.8	5738.5
30°	7148.6	7129.6	7154.3	7130.8	7086.0	6870.9	6681.6	6530.2	6549.7	6535.9	6184.2
32.5°	7482.5	7494.5	7575.4	7577.7	7530.6	7371.2	7140.0	7047.0	7078.0	7059.7	6732.1
35°	7784.2	7803.7	7908.1	8010.8	8045.2	7870.8	7635.6	7629.9	7670.0	7781.9	7487.0
37.5°	8043.5	8057.3	8203.6	8337.2	8448.5	8329.2	8158.2	8361.9	8421.0	8649.9	8266.1
40°	8199.0	8216.8	8406.1	8594.2	8792.7	8750.3	8734.2	9216.1	9271.7	9473.1	8834.6
42.5°	8111.2	8146.2	8461.7	8805.9	9097.9	9182.8	9402.5	10022.1	10085.8	10103.0	9393.4
45°	7954.6	7998.2	8351.0	8908.0	9384.2	9656.7	10074.9	10679.0	10714.0	10665.2	9856.3
47.5°	7785.9	7832.4	8226.5	8877.6	9614.2	10208.0	10675.5	11297.4	11322.1	11172.3	10322.7
50°	7594.3	7637.3	8061.3	8806.5	9787.5	10728.3	11292.8	11832.1	11924.4	11628.4	10685.3
52.5°	7361.4	7407.3	7857.1	8695.2	9939.5	11114.4	11837.2	12436.1	12442.5	12198.6	11093.7
55°	7059.7	7139.4	7600.6	8502.4	10019.2	11446.0	12311.7	13235.3	13276.0	13040.2	11435.7
57.5°	6724.1	6793.5	7292.0	8245.4	9947.5	11697.8	13074.6	14092.3	14087.2	13613.9	11734.5
60°	6280.6	6329.9	6889.8	7909.3	9716.3	12002.4	13869.2	15010.8	15001.6	14176.1	11926.7
62.5°	5711.5	5760.9	6287.5	7382.1	9376.7	12206.7	14408.4	15698.6	15672.3	14585.1	11985.8
65°	5051.8	5140.1	5597.4	6697.7	8776.1	12072.4	14668.9	16103.7	16061.2	14897.2	11844.7
67.5°	4433.4	4508.5	4870.5	5755.7	7889.8	11528.0	14485.3	16208.1	16195.4	14942.5	11446.0
70°	3557.9	3585.5	3917.1	4674.9	6564.6	10362.3	13850.8	15967.1	15972.9	14524.9	10645.1
72.5°	2435.3	2502.4	2649.8	3248.2	4777.0	8240.9	11938.2	14370.0	14371.2	13024.2	9274.6
75°	1309.7	1413.5	1585.6	1882.2	2670.5	5288.1	9587.3	11923.9	11946.2	10859.1	7371.7
77.5°	649.4	686.7	786.5	1006.8	1224.2	2494.9	6165.9	8950.5	9003.8	8335.5	5027.7
80°	297.2	303.5	310.9	309.2	468.7	1094.6	2646.9	5375.3	5391.4	4957.7	2295.3
82.5°	232.3	231.2	234.6	213.4	214.6	422.2	916.2	1407.8	1501.3	1181.8	728.0
85°	140.6	140.0	150.9	117.0	144.0	228.3	462.4	561.6	568.5	462.4	376.9
87.5°	53.4	51.6	47.6	41.9	48.2	64.3	160.1	206.5	201.9	143.4	130.2
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°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	3995.1	4013.4	4047.3	4073.1	4081.7	4109.2	4135.6	4140.2	4159.1	4166.6	4191.3
5°	4045.0	4076.0	4128.7	4163.7	4179.2	4225.1	4255.0	4269.9	4264.7	4267.6	4295.1
7.5°	4117.8	4147.1	4189.6	4232.0	4239.5	4247.5	4244.6	4242.3	4222.3	4205.0	4230.9
10°	4184.4	4211.9	4238.3	4244.6	4206.8	4185.5	4147.7	4118.4	4079.4	4061.6	4082.3
12.5°	4277.9	4283.6	4257.8	4223.4	4141.9	4066.2	4004.8	3951.5	3903.3	3870.0	3897.6
15°	4376.6	4354.2	4279.0	4178.7	4052.4	3944.0	3843.6	3754.7	3675.0	3655.5	3662.9
17.5°	4507.4	4446.6	4295.1	4126.5	3930.3	3761.6	3632.5	3520.1	3415.7	3372.1	3368.1
20°	4666.9	4568.8	4327.8	4060.5	3785.7	3561.4	3361.7	3193.7	3049.7	2931.5	2934.4
22.5°	4874.5	4732.3	4377.1	3991.6	3625.6	3326.7	3036.5	2750.8	2513.8	2411.7	2386.5
25°	5148.7	4936.5	4447.1	3929.1	3446.6	3028.4	2618.3	2215.0	1964.3	1865.0	1854.1
27.5°	5490.1	5210.7	4553.8	3859.7	3255.0	2674.5	2084.7	1689.5	1459.4	1355.0	1320.0
30°	5877.9	5548.6	4663.4	3787.4	3023.3	2219.6	1589.7	1202.4	966.6	873.1	861.1
32.5°	6379.8	5976.6	4826.3	3673.8	2684.8	1744.5	1108.9	750.4	590.3	550.2	538.7
35°	7092.9	6555.4	5027.7	3530.4	2250.0	1218.5	687.3	439.4	354.0	333.9	329.9
37.5°	7757.8	7123.3	5230.8	3292.3	1708.4	760.7	393.0	281.7	262.7	263.3	264.5
40°	8285.0	7511.7	5394.8	2979.1	1123.8	432.0	273.1	234.1	234.6	232.9	231.8
42.5°	8754.3	7821.5	5468.9	2516.1	651.1	289.1	236.9	215.7	210.5	212.3	211.1
45°	9142.7	8137.6	5325.4	1995.8	383.8	259.3	223.7	200.2	194.5	203.7	204.8
47.5°	9551.1	8437.6	5105.7	1503.6	311.5	246.7	211.7	188.7	185.9	197.3	198.5
50°	9894.8	8655.0	4731.1	1133.0	297.2	232.9	200.8	177.3	176.7	187.0	187.0
52.5°	10182.2	8786.4	4286.5	874.9	287.4	220.9	189.9	166.4	166.4	169.8	170.4
55°	10384.7	8760.0	4021.5	688.4	277.1	209.4	178.4	156.0	149.2	146.9	148.0
57.5°	10421.4	8690.0	3714.0	537.0	265.0	198.5	168.1	144.0	131.4	129.7	129.1
60°	10397.9	8536.3	3362.9	448.6	251.3	188.2	157.8	131.4	118.8	114.7	115.9
62.5°	10299.8	8263.8	2957.3	393.5	237.5	180.1	146.3	122.8	111.3	106.1	106.1
65°	10003.8	7873.7	2354.9	344.8	220.3	171.5	137.1	119.3	106.7	101.0	99.8
67.5°	9353.2	7064.2	1769.8	302.3	203.7	162.4	136.0	118.8	104.4	96.4	95.2
70°	8480.7	6068.3	1208.2	265.6	185.3	153.7	135.4	119.3	102.1	91.8	90.6
72.5°	7079.7	4783.9	695.9	231.2	166.9	145.7	133.1	119.9	98.1	85.5	83.8
75°	5319.7	3355.4	408.5	198.5	149.2	133.7	126.8	116.5	91.8	78.0	76.3
77.5°	3199.4	1566.7	307.5	164.6	127.9	117.6	113.0	106.7	83.8	72.3	70.6
80°	1173.7	594.9	241.5	131.9	101.5	102.1	97.5	93.5	76.3	66.5	65.4
82.5°	511.7	363.7	178.4	100.4	79.7	91.2	80.3	76.9	65.4	59.7	57.4
85°	310.4	216.8	114.7	68.3	55.1	62.0	56.2	59.1	50.5	47.0	45.3
87.5°	102.7	64.8	51.1	33.3	27.5	25.8	25.2	30.4	28.7	26.4	26.4
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)