

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: P319377

Luminaire Tested: **GAN-SA3D-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23206 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

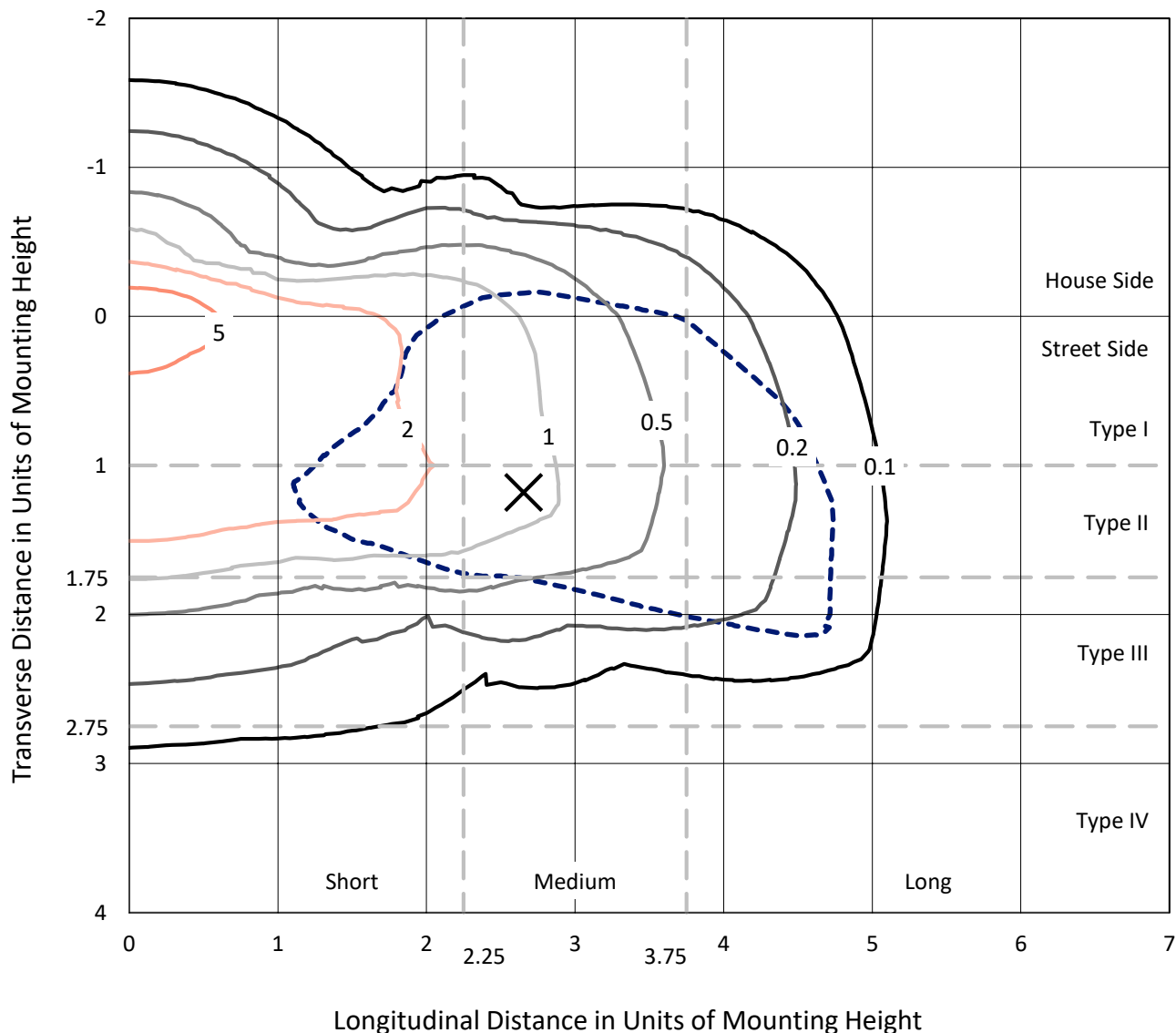
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

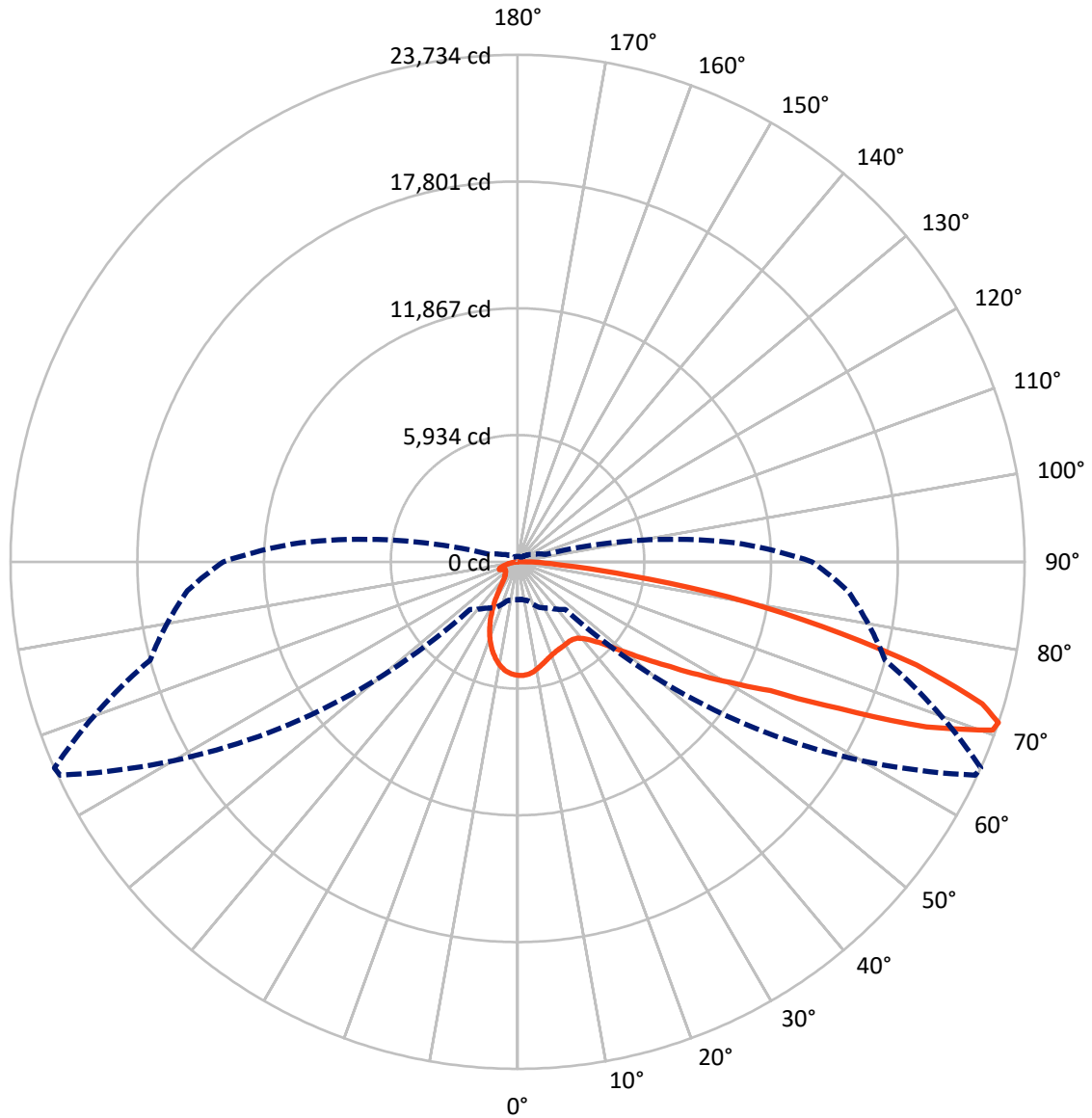
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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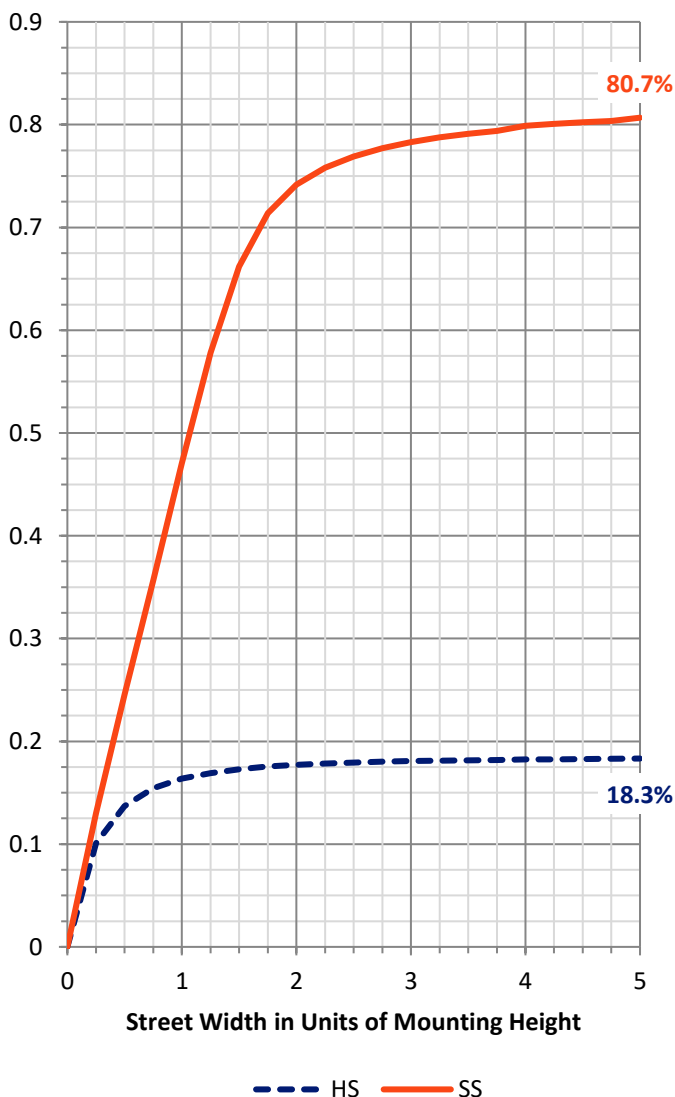
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4300.7	0.0	4300.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18905.3	0.0	18905.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	23206.0	0.0	23206.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.9	2.0
10°-20°	1122.3	4.8
20°-30°	1507.6	6.5
30°-40°	1983.2	8.5
40°-50°	2885.0	12.4
50°-60°	4506.7	19.4
60°-70°	5645.3	24.3
70°-80°	4306.1	18.6
80°-90°	781.9	3.4
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°	23206.0	100.0
0°-180°	23206.0	100.0

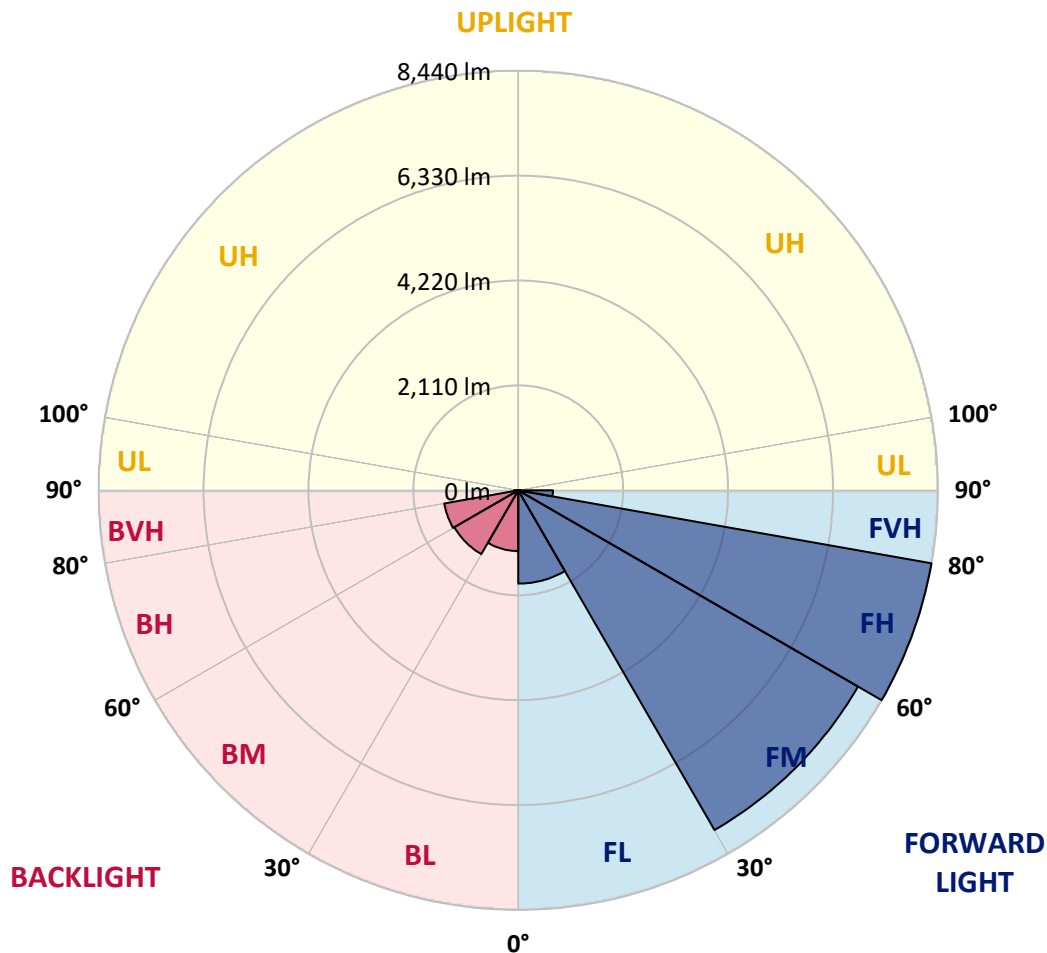


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.5	8.1			
FM (30°-60°)	7891.2	34.0			
FH (60°-80°)	8440.3	36.4			G4/12000
FVH (80°-90°)	697.3	3.0			G4/750
BL (0°-30°)	1221.3	5.3	B3/2500		
BM (30°-60°)	1483.6	6.4	B2/2500		
BH (60°-80°)	1511.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	84.6	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0
2.5°	5217.5	5209.5	5233.5	5258.4	5268.0	5284.0	5308.0	5321.7	5320.9	5323.3	5315.2
5°	4871.4	4861.0	4909.0	4948.3	5023.6	5108.5	5211.9	5285.6	5287.2	5328.9	5340.1
7.5°	4543.7	4536.5	4591.7	4655.0	4742.4	4872.2	5039.6	5198.3	5207.9	5320.9	5360.1
10°	4280.9	4279.3	4333.0	4401.9	4503.6	4648.6	4840.9	5073.3	5087.7	5282.4	5363.3
12.5°	4075.8	4079.0	4125.4	4204.0	4311.3	4462.8	4671.1	4933.1	4956.3	5221.5	5344.9
15°	3924.3	3937.2	3974.8	4054.1	4159.9	4313.7	4527.7	4803.3	4838.5	5153.4	5334.5
17.5°	3837.8	3852.2	3878.7	3944.4	4043.7	4191.9	4394.7	4696.7	4728.8	5101.3	5335.3
20°	3812.2	3824.2	3839.4	3879.5	3963.6	4098.2	4289.7	4600.6	4635.0	5059.7	5343.3
22.5°	3862.6	3871.5	3873.1	3869.9	3921.1	4030.9	4213.6	4530.1	4566.9	5032.4	5348.9
25°	3970.8	3982.8	3974.0	3944.4	3927.5	3994.8	4174.3	4483.6	4520.4	5012.4	5337.7
27.5°	4133.5	4135.1	4127.8	4089.4	4010.1	3998.9	4162.3	4456.3	4491.6	4989.2	5314.4
30°	4354.6	4365.0	4352.2	4300.1	4170.3	4062.9	4176.7	4429.9	4462.0	4959.5	5276.8
32.5°	4613.4	4639.0	4638.2	4583.7	4397.9	4206.4	4236.0	4413.9	4438.7	4928.3	5231.1
35°	4881.8	4917.0	4982.7	4959.5	4729.6	4433.1	4349.8	4439.5	4456.3	4924.3	5199.1
37.5°	5160.6	5195.9	5331.3	5393.8	5124.6	4757.6	4529.3	4530.1	4538.1	4973.1	5196.7
40°	5452.3	5489.9	5693.4	5856.1	5636.5	5168.6	4818.5	4719.1	4710.3	5093.3	5243.9
42.5°	5860.9	5894.5	6138.9	6346.4	6204.6	5695.0	5218.3	5010.8	4992.4	5328.9	5395.4
45°	6377.7	6406.5	6666.1	6888.0	6815.1	6295.9	5720.7	5412.2	5409.0	5721.5	5702.2
47.5°	6992.2	7014.6	7247.8	7462.5	7488.9	6987.4	6352.0	6031.5	5979.4	6259.9	6177.3
50°	7632.4	7657.2	7815.8	8046.6	8242.9	7912.8	7164.4	6790.3	6720.6	6970.5	6850.4
52.5°	8056.2	8089.0	8226.9	8519.3	9090.6	8927.1	8125.1	7710.1	7604.3	7831.9	7739.7
55°	7867.1	7940.8	8151.5	8620.2	9768.4	10476.7	9310.1	8782.9	8663.5	8852.6	8798.1
57.5°	7007.4	7108.4	7396.0	8119.5	9863.7	11841.9	11101.6	10046.4	9962.3	9907.8	9932.6
60°	5436.2	5533.2	5889.7	6832.7	9199.5	12838.6	13797.7	11604.0	11482.2	10967.0	10989.4
62.5°	3847.4	3798.5	4042.9	4732.8	7475.3	12955.6	16865.5	13687.1	13286.5	12085.5	11986.9
65°	2934.0	2922.8	3032.6	3252.1	4527.7	11555.9	18693.1	17188.4	16562.7	13401.1	13168.7
67.5°	2410.8	2390.8	2499.0	2818.7	2915.6	7455.3	18733.2	21250.6	20636.0	15038.8	14535.6
70°	1982.2	1959.8	2060.7	2473.3	2694.5	3780.9	15766.3	23629.4	23596.5	17112.3	15567.6
71°	1777.1	1761.1	1882.0	2340.3	2647.2	3151.2	13612.6	23635.8	23734.3	17814.2	15506.7
72.5°	1447.0	1452.6	1580.8	2083.2	2612.0	2782.6	10004.7	22534.1	22742.4	18483.2	14953.0
75°	961.5	966.3	1134.5	1602.4	2532.6	2722.5	5498.7	18908.6	19291.6	18082.6	13644.6
77.5°	645.8	644.2	758.7	1099.3	2206.5	2722.5	3224.1	14142.2	14562.8	14388.2	10519.1
80°	444.7	441.5	522.4	758.7	1670.5	2755.4	2492.6	9911.0	10038.4	7770.2	4275.3
82.5°	272.4	274.8	341.3	536.0	1136.9	2479.8	2353.2	5404.2	5265.6	2179.3	1068.0
85°	156.2	155.4	217.9	362.9	729.9	2092.8	2294.7	2325.9	2133.6	656.2	386.2
87.5°	56.1	60.1	117.0	201.1	418.2	1457.4	1946.9	1209.8	1090.5	296.4	174.7
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°	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0	5316.0
2.5°	5309.6	5314.4	5308.8	5276.8	5249.5	5205.5	5180.6	5146.2	5135.8	5131.0	5143.8
5°	5329.7	5331.3	5284.0	5199.9	5105.3	4994.0	4913.8	4815.3	4768.8	4748.8	4761.6
7.5°	5348.1	5340.9	5237.5	5076.5	4901.8	4707.9	4535.7	4377.8	4285.7	4248.0	4251.2
10°	5350.5	5320.1	5154.2	4905.0	4634.2	4349.8	4085.4	3841.8	3688.0	3587.8	3618.3
12.5°	5325.7	5274.4	5031.6	4683.1	4307.3	3919.5	3562.2	3196.8	2977.3	2875.6	2878.8
15°	5306.4	5213.5	4881.0	4421.9	3917.1	3403.6	2915.6	2486.2	2252.2	2148.1	2099.2
17.5°	5290.4	5147.8	4706.3	4127.8	3456.4	2805.0	2218.6	1835.6	1707.4	1676.9	1664.1
20°	5268.0	5078.1	4511.6	3787.3	2931.6	2135.2	1620.1	1431.0	1431.8	1467.0	1471.8
22.5°	5236.7	4998.8	4304.1	3405.2	2368.4	1555.2	1269.9	1215.4	1270.7	1338.0	1350.0
25°	5190.3	4905.0	4073.4	2982.9	1805.9	1195.4	1084.8	1082.4	1149.7	1220.2	1230.7
27.5°	5124.6	4782.4	3817.0	2529.4	1330.8	1015.9	971.9	988.7	1038.4	1089.6	1093.7
30°	5036.4	4639.8	3534.1	2051.1	1043.2	904.6	899.8	915.0	945.4	981.5	984.7
32.5°	4939.5	4494.8	3232.1	1588.0	893.4	844.5	849.3	856.5	870.9	885.3	888.5
35°	4851.3	4346.6	2922.8	1206.6	822.0	805.2	802.0	800.4	802.0	797.2	798.0
37.5°	4794.5	4224.0	2600.7	960.7	781.2	770.8	761.2	749.1	735.5	727.5	729.1
40°	4773.6	4132.7	2274.6	830.1	747.5	740.3	721.9	696.3	680.2	675.4	675.4
42.5°	4829.7	4085.4	1959.8	764.4	719.5	707.5	677.0	647.4	635.4	634.6	633.8
45°	5001.2	4104.6	1660.1	728.3	693.9	670.6	630.6	605.7	597.7	599.3	598.5
47.5°	5308.8	4225.6	1403.7	704.3	668.2	637.8	592.9	572.9	563.3	563.3	564.1
50°	5832.0	4508.4	1199.4	684.2	646.6	607.3	565.7	540.8	528.0	527.2	527.2
52.5°	6594.0	5014.8	1072.0	667.4	622.5	580.1	538.4	507.2	491.9	488.7	487.1
55°	7549.0	5740.7	1036.8	656.2	590.5	550.4	505.6	474.3	457.5	450.3	449.5
57.5°	8617.0	6623.6	1106.5	642.6	557.6	515.2	469.5	439.9	422.2	413.4	412.6
60°	9697.9	7587.5	1390.9	623.3	530.4	476.7	432.7	405.4	387.8	378.2	376.6
62.5°	10780.3	8603.4	1971.8	621.7	511.2	439.9	395.0	371.8	354.9	344.5	342.1
65°	12001.4	9715.5	2632.0	664.2	504.8	406.2	356.5	338.1	323.7	314.1	313.3
67.5°	13403.5	10971.0	2568.7	751.5	526.4	375.8	320.5	306.1	295.6	287.6	286.8
70°	14061.3	10774.7	1596.8	813.2	556.8	346.1	286.0	275.6	267.6	262.0	259.6
71°	13785.7	10230.7	1338.8	806.0	553.6	333.3	272.4	264.4	256.4	251.6	249.2
72.5°	13034.1	9330.1	1116.9	749.9	517.6	310.1	254.8	246.8	239.6	234.0	232.4
75°	11696.1	8332.6	894.2	599.3	412.6	262.0	223.5	214.7	209.1	205.9	202.7
77.5°	8597.8	5946.6	691.4	473.5	303.7	213.9	190.7	184.3	178.7	173.9	171.5
80°	3293.8	2303.5	465.5	353.3	222.7	169.1	153.8	150.6	145.0	141.8	141.8
82.5°	886.9	688.2	248.4	213.9	149.0	123.4	117.8	116.2	111.4	105.0	105.8
85°	358.9	303.7	139.4	117.8	91.3	72.9	79.3	80.1	74.5	66.5	67.3
87.5°	157.8	129.0	77.7	52.1	40.1	28.0	36.1	36.1	32.8	27.2	24.8
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)