

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: P319358

Luminaire Tested: **GAN-SA4B-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319358
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-SA4B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 22583 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

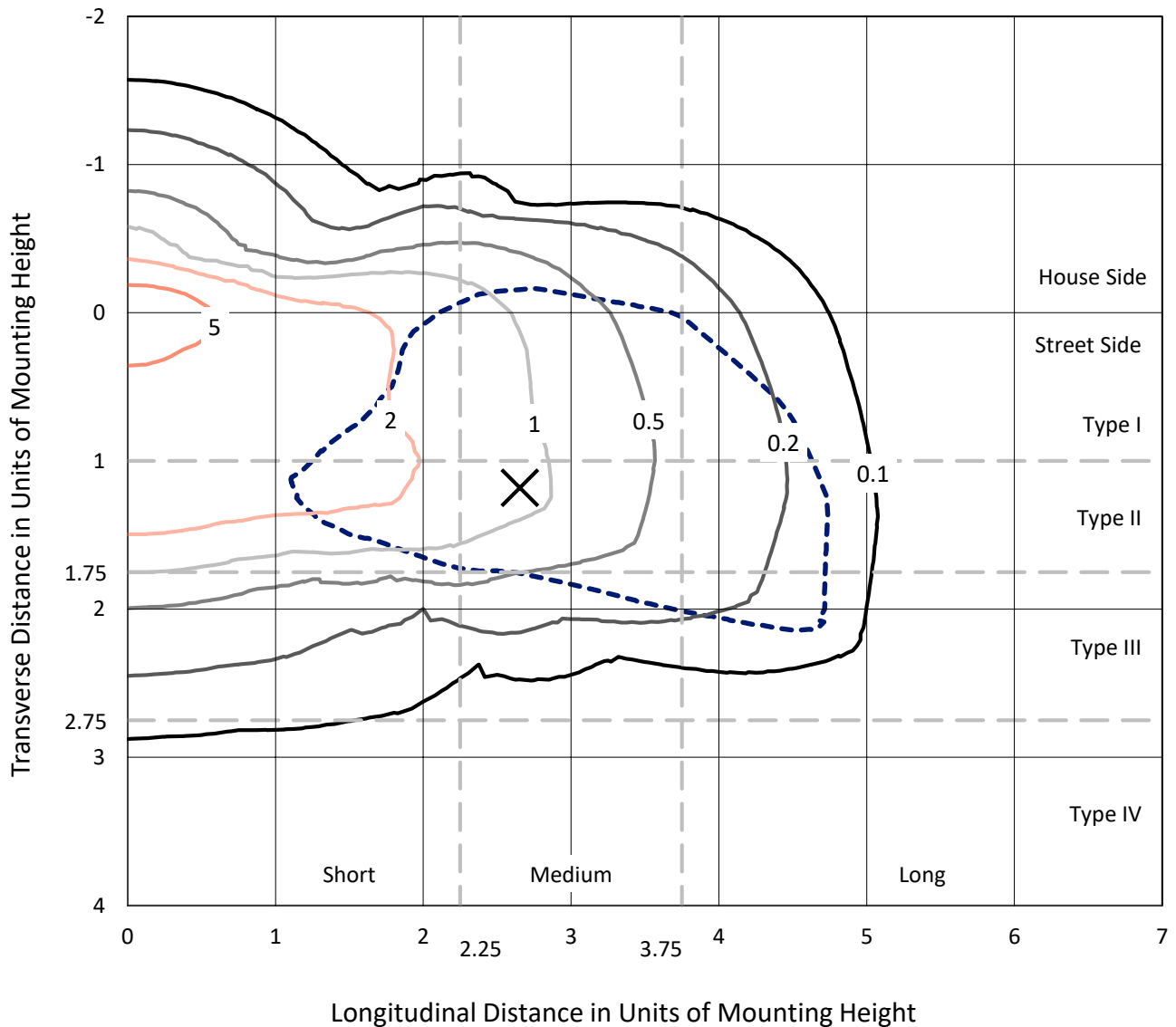
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

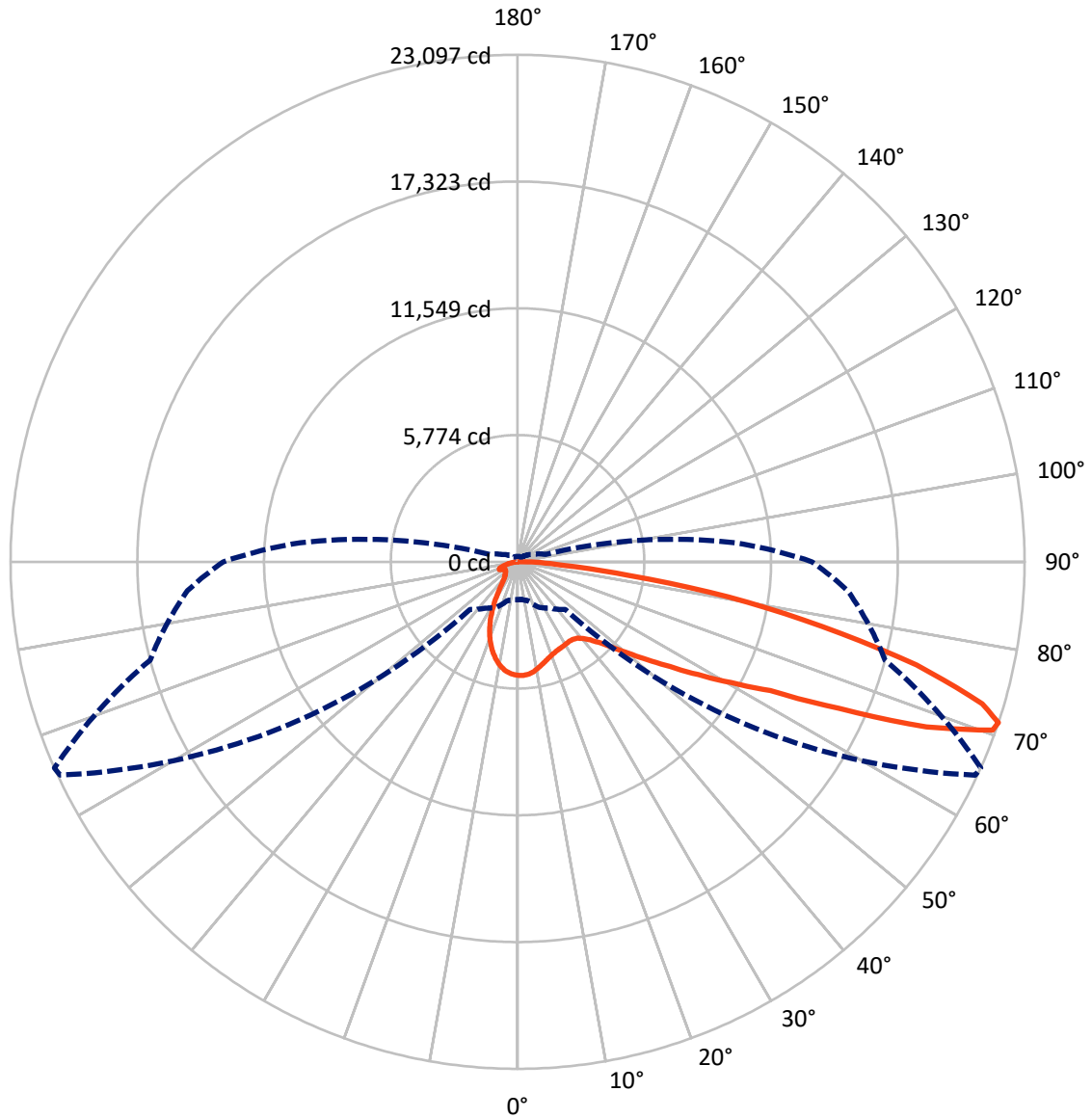
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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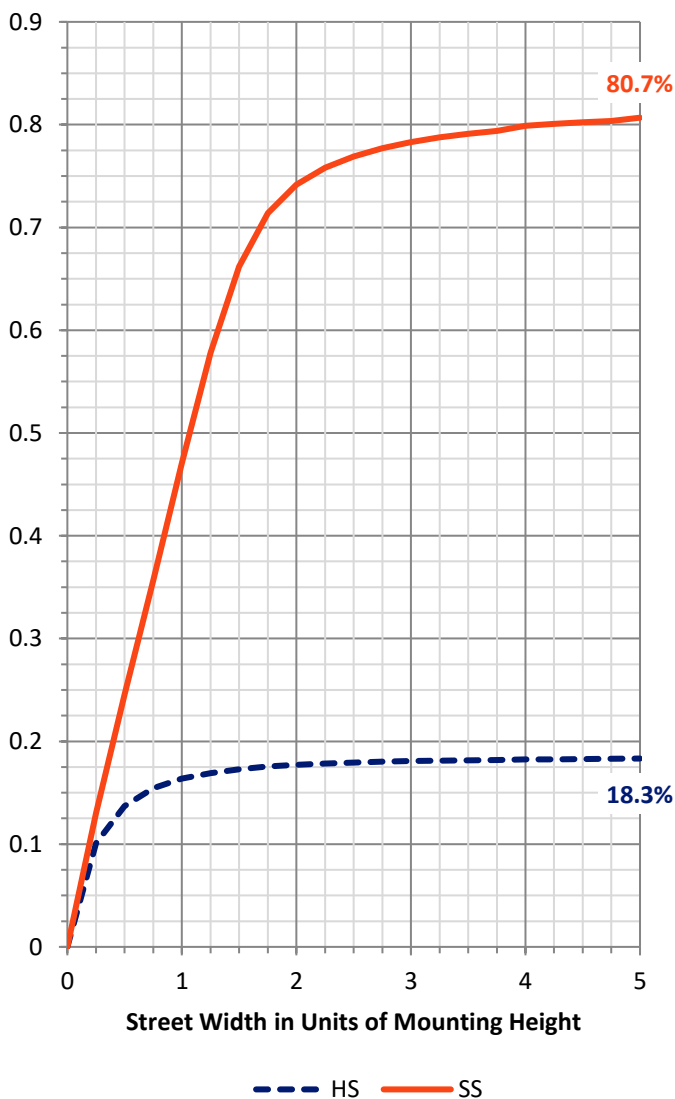
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4185.2	0.0	4185.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18397.8	0.0	18397.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	22583.0	0.0	22583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.4	2.0
10°-20°	1092.2	4.8
20°-30°	1467.1	6.5
30°-40°	1929.9	8.5
40°-50°	2807.5	12.4
50°-60°	4385.7	19.4
60°-70°	5493.8	24.3
70°-80°	4190.5	18.6
80°-90°	761.0	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°	22583.0	100.0
0°-180°	22583.0	100.0

Coefficient of Utilization

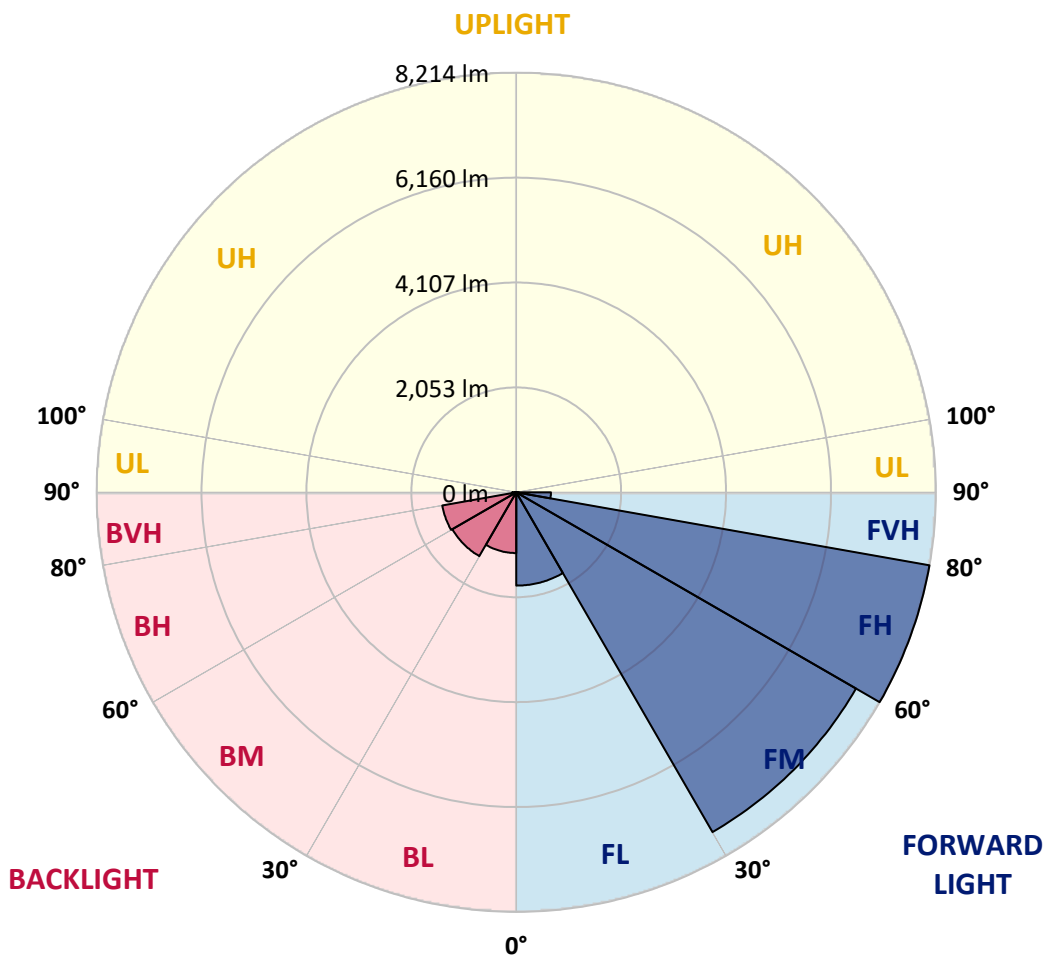


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.1	8.1			
FM (30°-60°)	7679.4	34.0			
FH (60°-80°)	8213.7	36.4			G4/12000
FVH (80°-90°)	678.6	3.0			G4/750
BL (0°-30°)	1188.5	5.3	B3/2500		
BM (30°-60°)	1443.8	6.4	B2/2500		
BH (60°-80°)	1470.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	82.4	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°	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3
2.5°	5077.4	5069.6	5093.0	5117.2	5126.5	5142.1	5165.5	5178.8	5178.0	5180.3	5172.5
5°	4740.6	4730.5	4777.2	4815.4	4888.7	4971.4	5072.0	5143.7	5145.3	5185.8	5196.7
7.5°	4421.7	4414.7	4468.5	4530.1	4615.1	4741.4	4904.3	5058.7	5068.1	5178.0	5216.2
10°	4166.0	4164.4	4216.6	4283.7	4382.7	4523.8	4711.0	4937.1	4951.1	5140.6	5219.3
12.5°	3966.3	3969.5	4014.7	4091.1	4195.6	4342.9	4545.7	4800.6	4823.2	5081.3	5201.4
15°	3819.0	3831.5	3868.1	3945.3	4048.2	4197.9	4406.1	4674.3	4708.6	5015.0	5191.3
17.5°	3734.8	3748.8	3774.5	3838.5	3935.2	4079.4	4276.7	4570.6	4601.8	4964.4	5192.0
20°	3709.8	3721.5	3736.3	3775.3	3857.2	3988.2	4174.5	4477.1	4510.6	4923.8	5199.8
22.5°	3758.9	3767.5	3769.1	3766.0	3815.9	3922.7	4100.5	4408.4	4444.3	4897.3	5205.3
25°	3864.2	3875.9	3867.3	3838.5	3822.1	3887.6	4062.3	4363.2	4399.1	4877.8	5194.4
27.5°	4022.5	4024.0	4017.0	3979.6	3902.4	3891.5	4050.6	4336.7	4371.0	4855.2	5171.8
30°	4237.7	4247.8	4235.3	4184.7	4058.4	3953.9	4064.6	4311.0	4342.2	4826.4	5135.1
32.5°	4489.5	4514.5	4513.7	4460.7	4279.8	4093.4	4122.3	4295.4	4319.6	4796.0	5090.7
35°	4750.7	4785.0	4849.0	4826.4	4602.6	4314.1	4233.0	4320.3	4336.7	4792.1	5059.5
37.5°	5022.1	5056.4	5188.1	5249.0	4987.0	4629.9	4407.7	4408.4	4416.2	4839.6	5057.2
40°	5305.9	5342.5	5540.6	5698.8	5485.2	5029.9	4689.1	4592.4	4583.9	4956.6	5103.2
42.5°	5703.5	5736.3	5974.1	6176.0	6038.0	5542.1	5078.2	4876.3	4858.3	5185.8	5250.5
45°	6206.4	6234.5	6487.1	6703.1	6632.2	6126.9	5567.1	5266.9	5263.8	5567.9	5549.1
47.5°	6804.5	6826.3	7053.2	7262.2	7287.9	6799.8	6181.5	5869.6	5818.9	6091.8	6011.5
50°	7427.4	7451.6	7606.0	7830.6	8021.6	7700.3	6972.1	6608.0	6540.1	6783.4	6666.5
52.5°	7839.9	7871.9	8006.0	8290.6	8846.5	8687.4	7907.0	7503.1	7400.2	7621.6	7531.9
55°	7655.9	7727.6	7932.7	8388.8	9506.1	10195.4	9060.1	8547.1	8430.9	8614.9	8561.9
57.5°	6819.3	6917.5	7197.4	7901.5	9598.9	11524.0	10803.6	9776.7	9694.8	9641.8	9666.0
60°	5290.3	5384.6	5731.6	6649.3	8952.5	12494.0	13427.3	11292.4	11173.9	10672.6	10694.4
62.5°	3744.1	3696.6	3934.4	4605.7	7274.6	12607.8	16412.7	13319.7	12929.8	11761.0	11665.1
65°	2855.3	2844.4	2951.2	3164.8	4406.1	11245.7	18191.2	16727.0	16118.0	13041.3	12815.2
67.5°	2346.1	2326.6	2431.9	2743.0	2837.3	7255.1	18230.2	20680.1	20082.0	14635.0	14145.4
70°	1929.0	1907.2	2005.4	2406.9	2622.1	3679.4	15343.0	22995.0	22963.0	16652.9	15149.6
71°	1729.4	1713.8	1831.5	2277.5	2576.1	3066.6	13247.2	23001.2	23097.1	17335.9	15090.4
72.5°	1408.1	1413.6	1538.4	2027.2	2541.8	2707.9	9736.1	21929.1	22131.9	17987.0	14551.6
75°	935.6	940.3	1104.1	1559.4	2464.6	2649.4	5351.1	18401.0	18773.7	17597.1	13278.3
77.5°	628.4	626.9	738.4	1069.8	2147.3	2649.4	3137.5	13762.5	14171.9	14001.9	10236.7
80°	432.7	429.6	508.4	738.4	1625.7	2681.4	2425.7	9644.9	9768.9	7561.6	4160.5
82.5°	265.1	267.4	332.2	521.6	1106.4	2413.2	2290.0	5259.1	5124.2	2120.8	1039.3
85°	152.0	151.3	212.1	353.2	710.3	2036.6	2233.1	2263.5	2076.3	638.6	375.8
87.5°	54.6	58.5	113.8	195.7	407.0	1418.3	1894.7	1177.4	1061.2	288.5	170.0
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°	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3	5173.3
2.5°	5167.1	5171.8	5166.3	5135.1	5108.6	5065.7	5041.6	5008.0	4997.9	4993.2	5005.7
5°	5186.6	5188.1	5142.1	5060.3	4968.3	4859.9	4781.9	4686.0	4640.8	4621.3	4633.8
7.5°	5204.5	5197.5	5096.9	4940.2	4770.2	4581.5	4413.9	4260.3	4170.6	4134.0	4137.1
10°	5206.9	5177.2	5015.8	4773.3	4509.8	4233.0	3975.7	3738.7	3589.0	3491.5	3521.1
12.5°	5182.7	5132.8	4896.5	4557.4	4191.7	3814.3	3466.6	3111.0	2897.4	2798.4	2801.5
15°	5164.0	5073.5	4749.9	4303.2	3812.0	3312.2	2837.3	2419.4	2191.7	2090.4	2042.8
17.5°	5148.4	5009.6	4580.0	4017.0	3363.6	2729.7	2159.0	1786.3	1661.5	1631.9	1619.4
20°	5126.5	4941.8	4390.5	3685.7	2852.9	2077.9	1576.6	1392.5	1393.3	1427.6	1432.3
22.5°	5096.1	4864.6	4188.6	3313.7	2304.8	1513.4	1235.8	1182.8	1236.6	1302.1	1313.8
25°	5050.9	4773.3	3964.0	2902.8	1757.5	1163.3	1055.7	1053.4	1118.9	1187.5	1197.6
27.5°	4987.0	4654.0	3714.5	2461.5	1295.1	988.7	945.8	962.2	1010.5	1060.4	1064.3
30°	4901.2	4515.3	3439.3	1996.0	1015.2	880.3	875.6	890.4	920.0	955.1	958.3
32.5°	4806.9	4374.1	3145.3	1545.4	869.4	821.8	826.5	833.5	847.5	861.6	864.7
35°	4721.1	4229.9	2844.4	1174.2	800.0	783.6	780.5	778.9	780.5	775.8	776.6
37.5°	4665.7	4110.6	2530.9	934.9	760.2	750.1	740.7	729.0	715.8	708.0	709.5
40°	4645.5	4021.7	2213.6	807.8	727.5	720.4	702.5	677.6	662.0	657.3	657.3
42.5°	4700.0	3975.7	1907.2	743.8	700.2	688.5	658.8	630.0	618.3	617.5	616.7
45°	4866.9	3994.4	1615.5	708.7	675.2	652.6	613.6	589.5	581.7	583.2	582.4
47.5°	5166.3	4112.2	1366.0	685.4	650.3	620.6	577.0	557.5	548.1	548.1	548.9
50°	5675.5	4387.4	1167.2	665.9	629.2	591.0	550.5	526.3	513.8	513.0	513.0
52.5°	6417.0	4880.2	1043.2	649.5	605.8	564.5	524.0	493.6	478.7	475.6	474.1
55°	7346.4	5586.6	1008.9	638.6	574.6	535.7	492.0	461.6	445.2	438.2	437.4
57.5°	8385.7	6445.8	1076.8	625.3	542.7	501.3	456.9	428.1	410.9	402.3	401.5
60°	9437.5	7383.8	1353.6	606.6	516.2	463.9	421.0	394.5	377.4	368.0	366.5
62.5°	10490.9	8372.4	1918.8	605.0	497.5	428.1	384.4	361.8	345.4	335.3	332.9
65°	11679.2	9454.7	2561.3	646.4	491.2	395.3	347.0	329.0	315.0	305.6	304.9
67.5°	13043.6	10676.5	2499.7	731.4	512.3	365.7	311.9	297.8	287.7	279.9	279.1
70°	13683.8	10485.4	1553.9	791.4	541.9	336.8	278.4	268.2	260.4	255.0	252.6
71°	13415.6	9956.0	1302.9	784.4	538.8	324.4	265.1	257.3	249.5	244.8	242.5
72.5°	12684.2	9079.6	1086.9	729.8	503.7	301.7	247.9	240.1	233.1	227.7	226.1
75°	11382.1	8108.9	870.1	583.2	401.5	255.0	217.5	209.0	203.5	200.4	197.3
77.5°	8367.0	5787.0	672.9	460.8	295.5	208.2	185.6	179.3	173.9	169.2	166.9
80°	3205.4	2241.6	453.0	343.8	216.8	164.5	149.7	146.6	141.1	138.0	138.0
82.5°	863.1	669.8	241.7	208.2	145.0	120.1	114.6	113.1	108.4	102.1	102.9
85°	349.3	295.5	135.7	114.6	88.9	71.0	77.2	78.0	72.5	64.7	65.5
87.5°	153.6	125.5	75.6	50.7	39.0	27.3	35.1	35.1	32.0	26.5	24.2
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)