

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: P319658

Luminaire Tested: **GAN-SA4D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28506 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

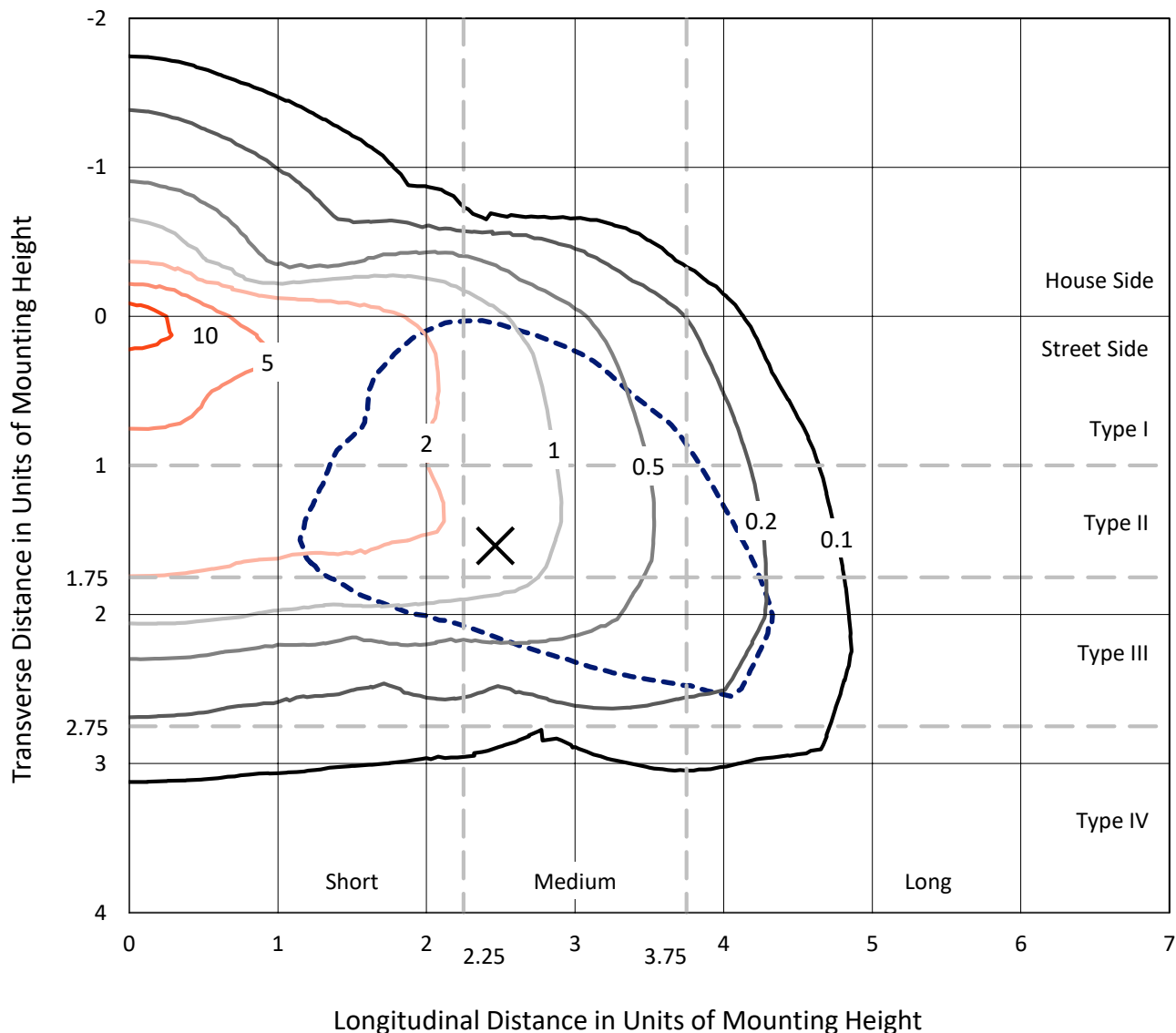
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

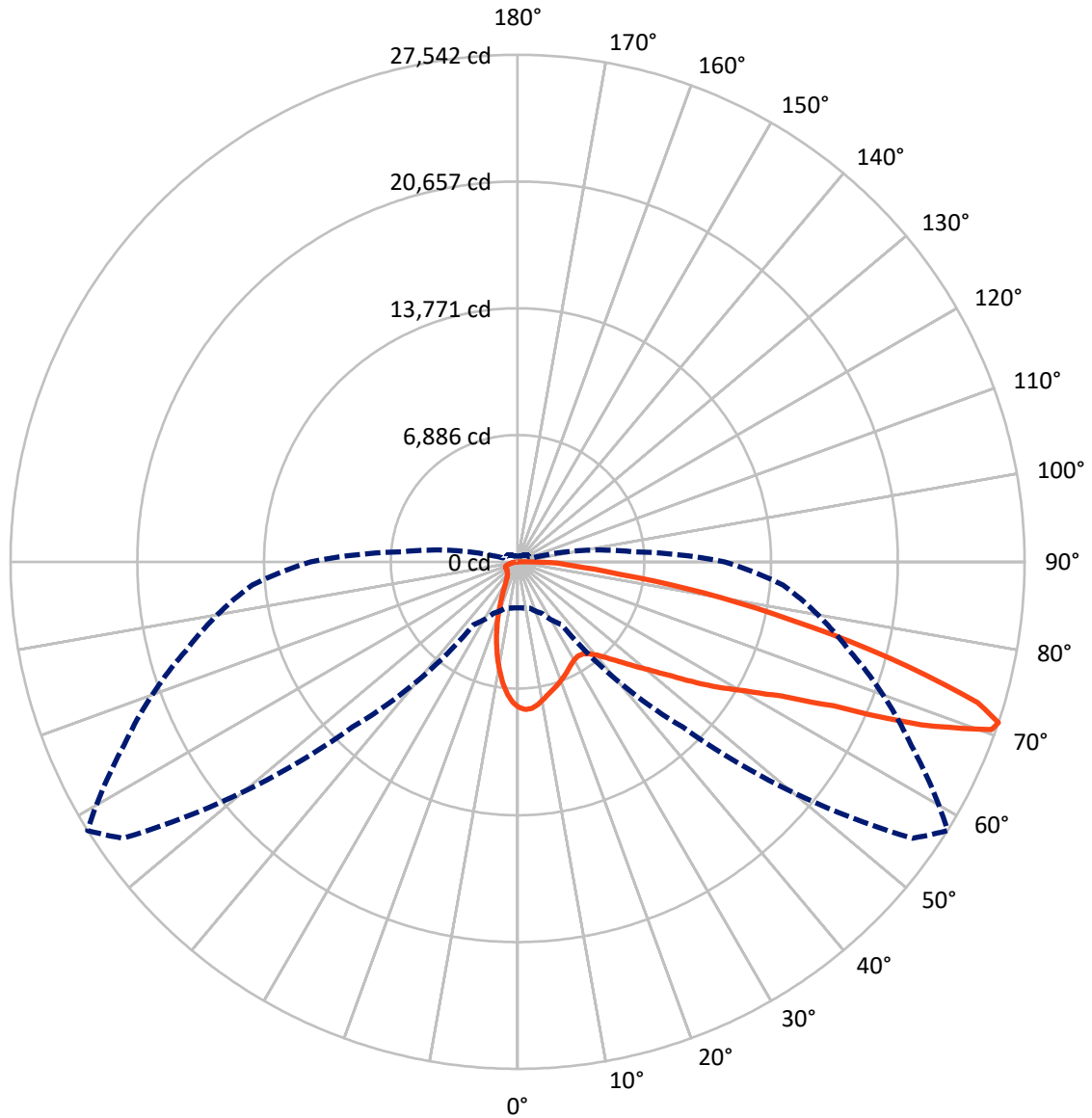
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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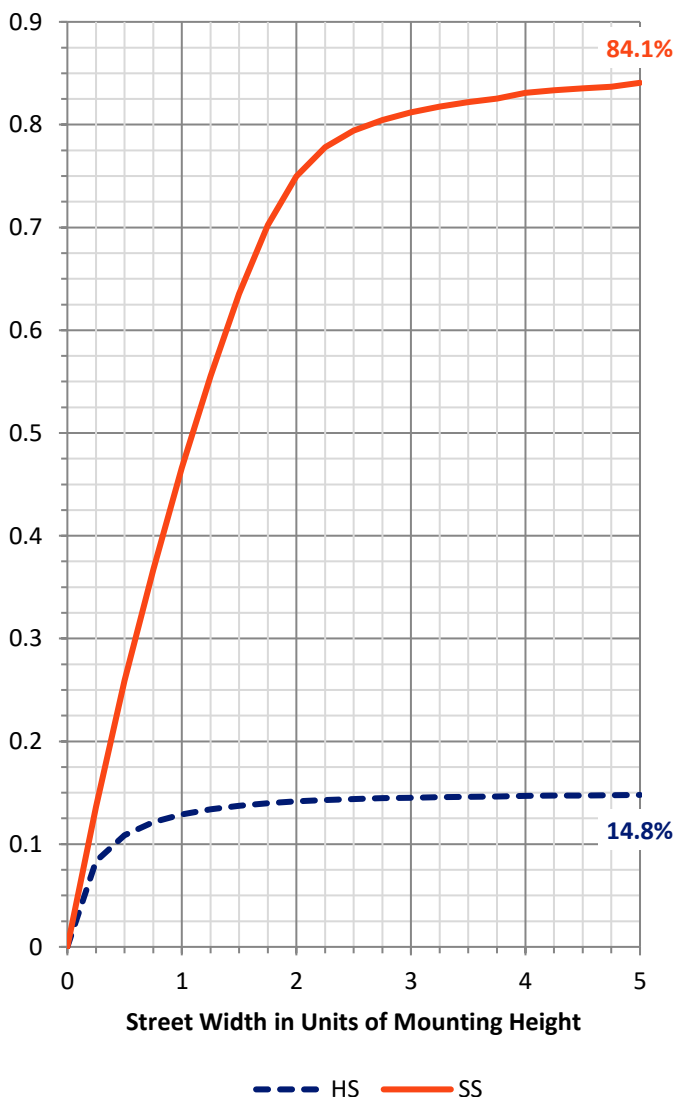
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4261.8	0.0	4261.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24244.2	0.0	24244.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	28506.0	0.0	28506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.4	2.4
10°-20°	1515.1	5.3
20°-30°	1925.5	6.8
30°-40°	2452.7	8.6
40°-50°	3478.1	12.2
50°-60°	5382.5	18.9
60°-70°	7327.6	25.7
70°-80°	4888.4	17.1
80°-90°	854.7	3.0
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°	28506.0	100.0
0°-180°	28506.0	100.0

Coefficient of Utilization

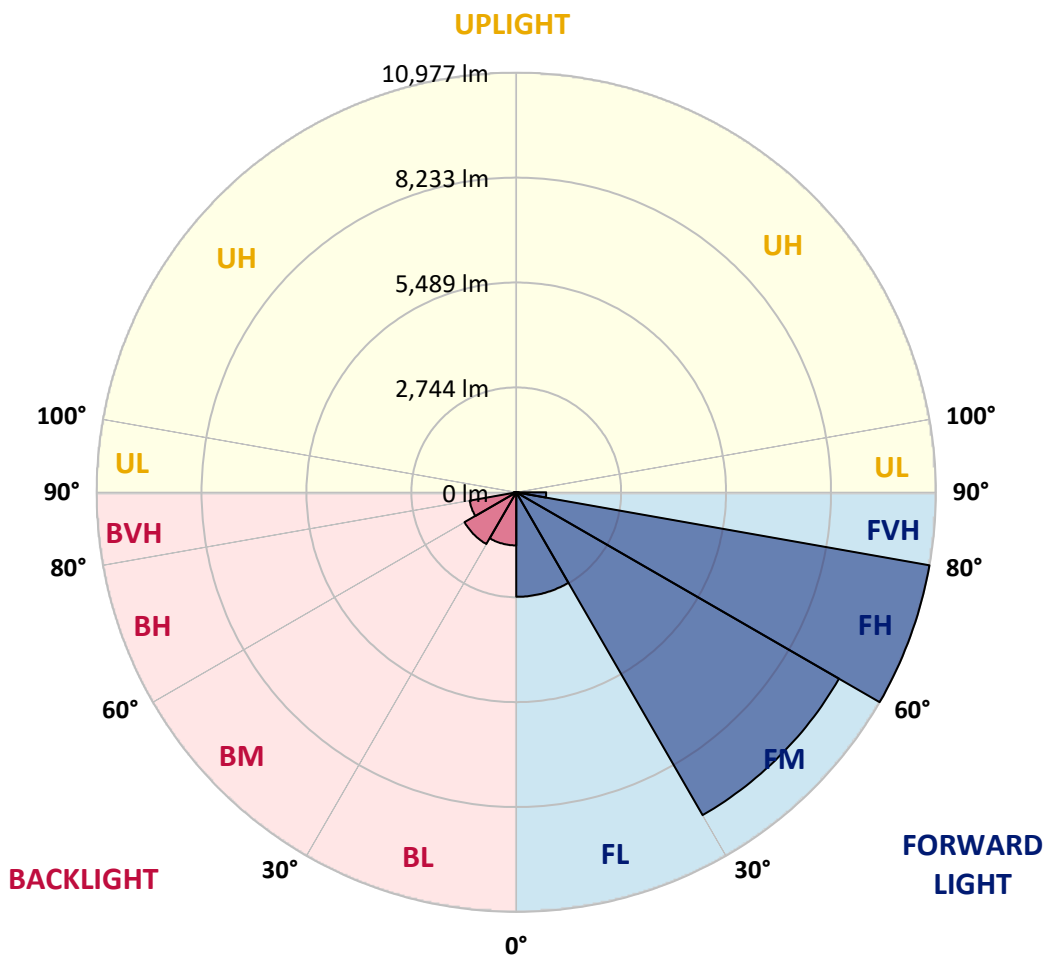


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.8	9.6			
FM (30°-60°)	9750.4	34.2			
FH (60°-80°)	10977.3	38.5			G4/12000
FVH (80°-90°)	783.6	2.7			G5
BL (0°-30°)	1389.2	4.9	B3/2500		
BM (30°-60°)	1562.9	5.5	B2/2500		
BH (60°-80°)	1238.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.0	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1
2.5°	8107.6	8096.7	8100.6	8092.7	8073.8	8055.0	8027.2	8032.1	7993.4	7935.8	7864.3
5°	7954.7	7950.7	7980.5	7997.4	8011.3	8000.3	7992.4	8002.3	7945.7	7866.3	7742.2
7.5°	7633.9	7590.2	7628.0	7684.6	7738.2	7778.9	7832.5	7839.5	7803.7	7720.3	7557.5
10°	7178.2	7136.5	7192.1	7280.4	7387.7	7485.0	7593.2	7613.1	7620.0	7544.6	7347.0
12.5°	6705.5	6673.7	6729.3	6853.5	7031.2	7181.1	7353.9	7383.7	7445.3	7394.6	7152.3
15°	6282.5	6270.6	6338.1	6460.2	6664.8	6894.2	7143.4	7198.0	7302.3	7285.4	7000.4
17.5°	5917.1	5914.1	5965.8	6093.8	6320.2	6610.2	6933.9	7026.2	7181.1	7201.0	6875.3
20°	5645.0	5639.1	5674.8	5769.1	6002.5	6331.2	6707.5	6834.6	7058.0	7127.5	6746.2
22.5°	5499.1	5498.1	5499.1	5543.7	5734.4	6040.2	6487.1	6642.0	6937.9	7068.9	6603.2
25°	5474.2	5471.3	5449.4	5444.4	5552.7	5796.9	6268.6	6439.4	6823.7	7028.2	6467.2
27.5°	5538.8	5542.7	5514.0	5467.3	5489.1	5637.1	6079.0	6261.7	6732.3	7020.3	6372.9
30°	5672.8	5670.8	5646.0	5597.4	5554.7	5577.5	5943.9	6126.6	6670.8	7055.0	6308.3
32.5°	5820.8	5831.7	5826.7	5799.9	5736.4	5645.0	5903.2	6081.9	6652.9	7138.4	6280.5
35°	5998.5	6010.4	6046.2	6067.0	5992.6	5845.6	5990.6	6145.5	6704.5	7295.3	6325.2
37.5°	6167.3	6198.1	6298.4	6386.8	6323.2	6159.4	6222.9	6333.2	6864.4	7542.6	6445.4
40°	6361.9	6388.8	6552.6	6740.3	6730.3	6560.5	6597.3	6670.8	7146.4	7897.1	6662.8
42.5°	6553.6	6607.2	6844.5	7110.6	7187.1	7037.2	7095.7	7134.5	7543.6	8366.7	7042.1
45°	6808.8	6866.4	7196.0	7516.8	7695.5	7611.1	7704.4	7719.3	8043.0	9006.2	7593.2
47.5°	7195.0	7260.6	7644.9	7981.5	8254.5	8263.5	8417.4	8411.4	8666.6	9738.0	8287.3
50°	7796.8	7891.1	8205.9	8520.7	8852.3	9037.0	9242.5	9213.8	9414.3	10517.5	9086.7
52.5°	8585.2	8628.9	8862.2	9094.6	9506.7	9920.7	10215.7	10189.8	10262.3	11318.8	9994.2
55°	9402.4	9435.2	9531.5	9658.6	10212.7	10887.9	11511.5	11470.8	11287.1	12150.9	10890.9
57.5°	10137.2	10203.7	10270.3	10322.9	10923.6	11898.7	12837.1	12840.1	12399.2	13048.6	11817.3
60°	10251.4	10310.0	10749.9	11164.9	12140.0	13247.2	14256.0	14226.3	13550.0	14022.7	12850.0
62.5°	9061.8	9193.9	9928.7	11032.9	13311.7	15713.7	16066.2	16029.5	14926.3	15223.2	14052.5
65°	6494.0	6643.9	7530.7	9189.9	12743.8	18431.5	19333.1	18838.6	16803.0	16699.7	15460.5
67.5°	3746.5	3782.2	4166.5	5499.1	9703.3	18573.5	24316.8	23624.7	19717.4	18374.9	16149.6
70°	2770.4	2769.4	2860.7	3384.0	5250.8	15158.6	26687.0	27307.6	22785.6	18926.0	15175.5
71°	2505.3	2508.2	2610.5	3080.2	4158.6	12688.1	26183.6	27542.0	23593.9	18653.9	14470.5
72.5°	2142.8	2152.8	2294.7	2762.4	3498.2	8750.0	24014.9	26135.9	23977.2	17982.7	13367.3
75°	1625.5	1648.3	1844.9	2328.5	3197.4	4437.6	17625.2	20870.2	21300.2	15867.6	9932.7
77.5°	1159.8	1185.6	1408.0	1958.1	3039.5	3344.3	11803.4	15223.2	15675.0	10169.0	4480.3
80°	732.8	763.6	931.4	1558.0	2855.8	3175.5	7417.5	10232.5	8547.5	3254.0	1139.9
82.5°	430.0	453.8	577.9	1017.8	2332.5	3058.3	4364.1	5671.8	3326.4	983.0	518.3
85°	249.2	260.2	360.4	648.4	1694.0	2886.6	3206.3	3170.5	1443.8	480.6	245.3
87.5°	116.2	129.1	213.5	338.6	940.3	2092.2	2534.1	2189.5	897.6	225.4	115.2
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°	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1	7898.1
2.5°	7829.6	7812.7	7742.2	7679.6	7614.1	7528.7	7434.4	7422.4	7364.8	7375.8	7355.9
5°	7674.6	7632.0	7462.2	7308.2	7126.5	6963.7	6786.9	6705.5	6588.3	6580.4	6550.6
7.5°	7453.2	7373.8	7110.6	6818.7	6526.8	6248.7	5973.7	5793.0	5608.3	5529.8	5522.9
10°	7204.0	7068.9	6681.7	6249.7	5828.7	5422.6	5029.4	4738.4	4476.3	4352.2	4347.2
12.5°	6967.7	6768.1	6236.8	5649.0	5073.1	4546.8	4007.6	3625.3	3296.7	3186.4	3139.8
15°	6767.1	6486.1	5803.9	5052.2	4353.2	3622.3	3008.7	2606.5	2302.7	2197.4	2177.6
17.5°	6572.5	6211.0	5360.0	4449.5	3604.5	2801.2	2186.5	1887.6	1725.8	1683.1	1682.1
20°	6378.8	5928.0	4896.3	3832.9	2880.6	2095.2	1681.1	1547.0	1492.4	1487.5	1479.5
22.5°	6159.4	5628.1	4408.8	3214.2	2248.1	1647.3	1428.9	1375.3	1368.3	1386.2	1386.2
25°	5953.8	5330.3	3914.3	2608.5	1748.6	1374.3	1276.0	1265.0	1283.9	1315.7	1318.7
27.5°	5762.2	5043.3	3431.7	2070.3	1401.1	1210.4	1169.7	1182.6	1216.4	1253.1	1254.1
30°	5604.3	4772.2	2963.0	1631.4	1183.6	1088.3	1081.3	1107.2	1143.9	1172.7	1179.6
32.5°	5482.2	4540.8	2510.2	1311.7	1041.6	996.9	1002.9	1024.7	1047.6	1063.5	1074.4
35°	5425.6	4342.2	2092.2	1106.2	951.3	926.4	934.4	946.3	956.2	968.1	977.1
37.5°	5435.5	4188.3	1718.8	978.1	890.7	877.8	877.8	877.8	877.8	883.7	884.7
40°	5527.9	4100.0	1415.0	896.7	850.0	836.1	825.2	815.2	807.3	811.3	809.3
42.5°	5764.2	4092.0	1192.6	845.0	817.2	794.4	772.5	758.6	748.7	752.7	754.7
45°	6165.3	4191.3	1042.6	808.3	786.4	751.7	723.9	709.0	702.0	714.9	716.9
47.5°	6684.7	4407.8	951.3	781.5	757.6	712.0	682.2	668.3	670.3	689.1	694.1
50°	7353.9	4759.3	907.6	764.6	737.8	678.2	647.4	635.5	641.5	668.3	674.2
52.5°	8088.7	5265.7	912.5	759.6	724.9	653.4	620.6	606.7	616.6	641.5	646.4
55°	8936.7	5874.4	995.0	766.6	706.0	637.5	598.8	574.9	582.9	605.7	609.7
57.5°	9879.0	6571.5	1160.8	764.6	682.2	622.6	575.9	540.2	546.1	560.0	564.0
60°	10860.1	7413.5	1418.0	770.5	671.2	604.7	545.1	500.5	498.5	510.4	512.4
62.5°	12037.8	8387.6	1711.9	774.5	678.2	581.9	504.4	460.7	454.8	457.8	459.7
65°	13251.2	9092.6	1601.7	758.6	700.0	563.0	468.7	422.0	411.1	409.1	410.1
67.5°	13288.9	8337.0	1123.0	726.9	709.0	553.1	441.9	389.2	371.4	364.4	363.4
70°	11917.6	6773.0	874.8	693.1	673.2	537.2	417.0	362.4	335.6	324.7	323.7
71°	11248.3	6234.8	829.1	676.2	646.4	521.3	406.1	350.5	322.7	310.8	308.8
72.5°	10198.8	5589.4	773.5	649.4	594.8	480.6	385.3	333.6	304.8	290.9	288.0
75°	7319.2	3655.1	664.3	578.9	492.5	383.3	337.6	299.9	275.1	258.2	256.2
77.5°	2820.0	1454.7	502.4	481.6	377.3	299.9	278.0	259.2	241.3	224.4	223.4
80°	871.8	650.4	366.4	362.4	273.1	223.4	216.5	211.5	204.6	186.7	182.7
82.5°	465.7	373.4	252.2	234.3	178.7	148.9	156.9	158.9	159.9	141.0	139.0
85°	222.4	197.6	142.0	133.1	104.3	83.4	96.3	104.3	105.3	86.4	80.4
87.5°	106.2	103.3	66.5	50.6	38.7	27.8	33.8	41.7	45.7	32.8	28.8
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)