

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: P319648

Luminaire Tested: **GAN-SA4C-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319648
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-SA4C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 25985 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

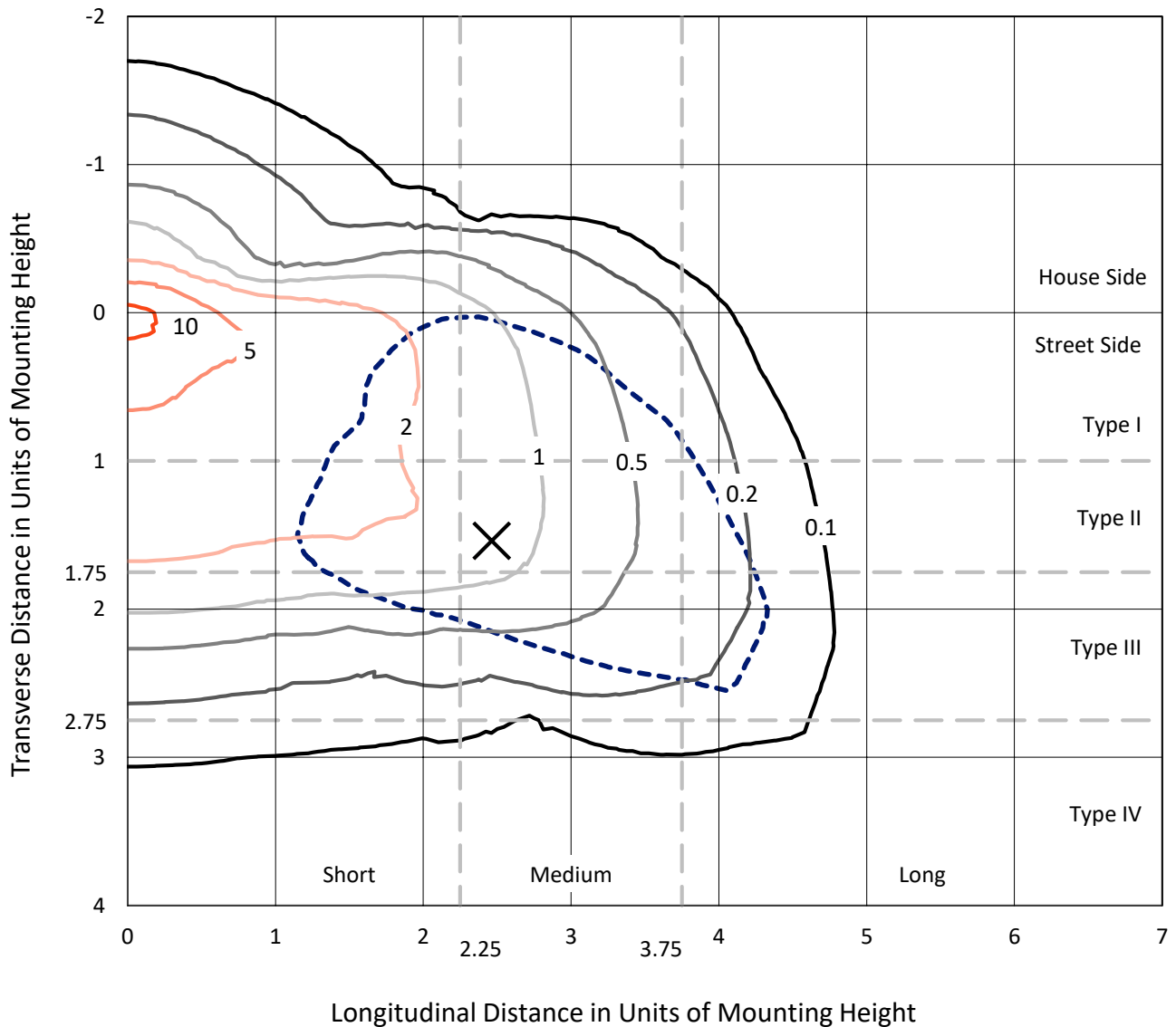
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

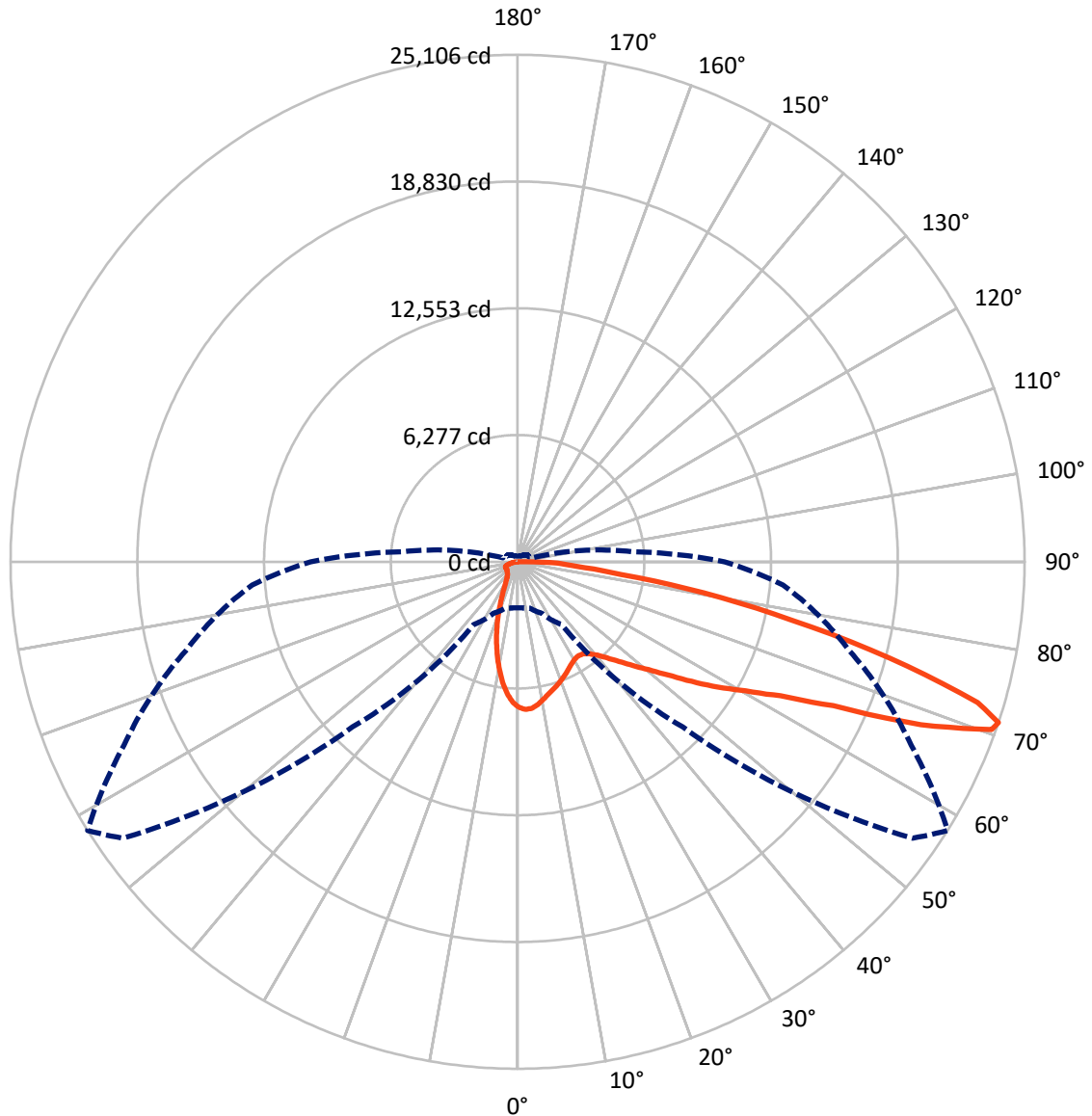
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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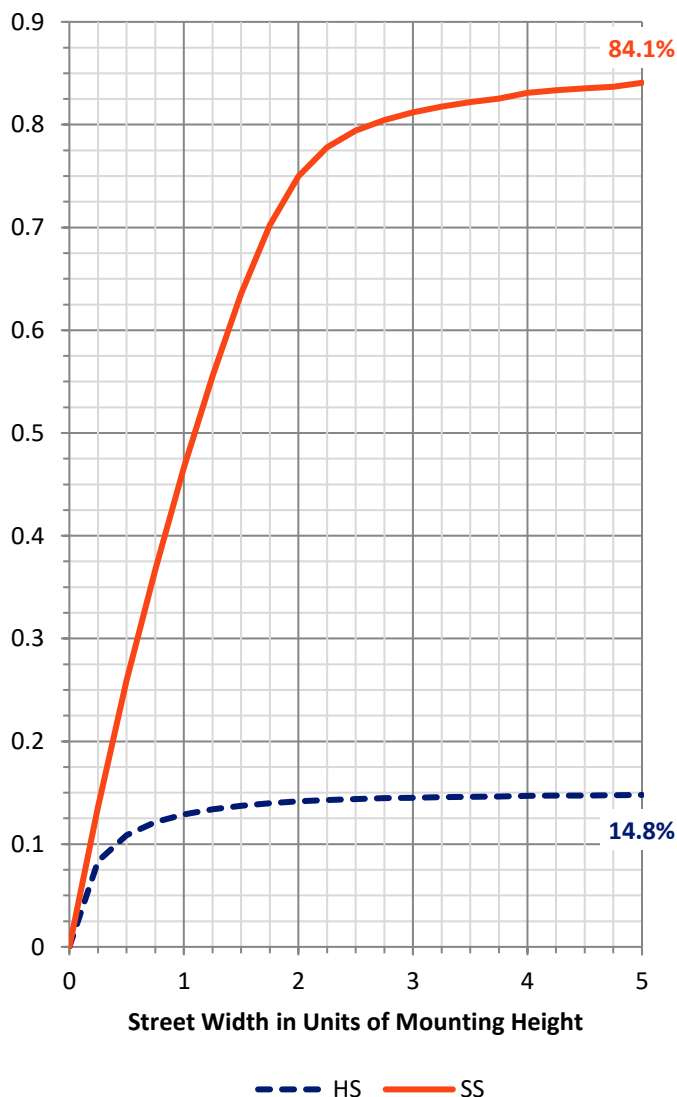
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3884.9	0.0	3884.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22100.1	0.0	22100.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	25985.0	0.0	25985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.1	2.4
10°-20°	1381.1	5.3
20°-30°	1755.2	6.8
30°-40°	2235.8	8.6
40°-50°	3170.5	12.2
50°-60°	4906.5	18.9
60°-70°	6679.6	25.7
70°-80°	4456.1	17.1
80°-90°	779.1	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°	25985.0	100.0
0°-180°	25985.0	100.0

Coefficient of Utilization

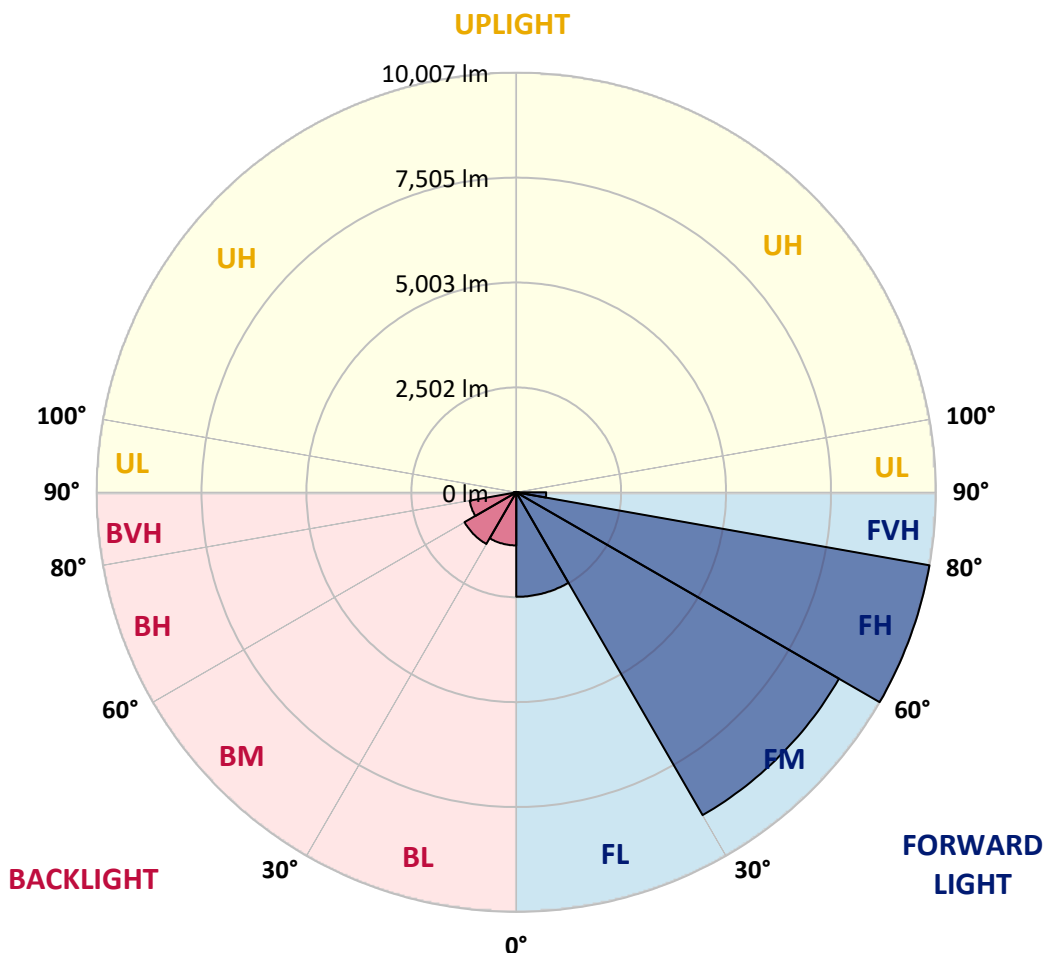


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.1	9.6			
FM (30°-60°)	8888.1	34.2			
FH (60°-80°)	10006.5	38.5			G4/12000
FVH (80°-90°)	714.3	2.7			G4/750
BL (0°-30°)	1266.4	4.9	B3/2500		
BM (30°-60°)	1424.7	5.5	B2/2500		
BH (60°-80°)	1129.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6
2.5°	7390.6	7380.6	7384.2	7377.0	7359.8	7342.6	7317.3	7321.8	7286.5	7234.0	7168.8
5°	7251.2	7247.6	7274.7	7290.1	7302.8	7292.8	7285.6	7294.6	7243.0	7170.6	7057.5
7.5°	6958.8	6919.0	6953.4	7005.0	7053.9	7091.0	7139.8	7146.2	7113.6	7037.6	6889.1
10°	6543.3	6505.3	6556.0	6636.6	6734.3	6823.0	6921.7	6939.8	6946.1	6877.3	6697.2
12.5°	6112.5	6083.5	6134.2	6247.4	6409.4	6546.1	6703.6	6730.7	6786.8	6740.7	6519.8
15°	5726.9	5716.0	5777.6	5888.9	6075.4	6284.5	6511.7	6561.4	6656.5	6641.1	6381.3
17.5°	5393.8	5391.1	5438.2	5554.9	5761.3	6025.6	6320.7	6404.9	6546.1	6564.2	6267.3
20°	5145.8	5140.4	5172.9	5258.9	5471.6	5771.3	6114.3	6230.2	6433.8	6497.2	6149.6
22.5°	5012.7	5011.8	5012.7	5053.5	5227.3	5506.0	5913.4	6054.6	6324.3	6443.8	6019.3
25°	4990.1	4987.4	4967.5	4963.0	5061.6	5284.3	5714.2	5869.9	6220.2	6406.7	5895.3
27.5°	5048.9	5052.6	5026.3	4983.8	5003.7	5138.6	5541.3	5707.9	6136.9	6399.4	5809.3
30°	5171.1	5169.3	5146.7	5102.3	5063.4	5084.2	5418.2	5584.8	6080.8	6431.1	5750.4
32.5°	5306.0	5316.0	5311.4	5287.0	5229.1	5145.8	5381.1	5544.1	6064.5	6507.1	5725.1
35°	5468.0	5478.9	5511.5	5530.5	5462.6	5328.6	5460.8	5602.0	6111.6	6650.2	5765.8
37.5°	5621.9	5650.0	5741.4	5821.9	5764.0	5614.7	5672.6	5773.1	6257.3	6875.5	5875.3
40°	5799.3	5823.8	5973.1	6144.2	6135.1	5980.3	6013.8	6080.8	6514.4	7198.7	6073.6
42.5°	5974.0	6022.9	6239.2	6481.8	6551.5	6414.8	6468.2	6503.5	6876.4	7626.8	6419.3
45°	6206.6	6259.1	6559.6	6852.0	7014.9	6938.0	7023.1	7036.7	7331.7	8209.7	6921.7
47.5°	6558.7	6618.5	6968.8	7275.6	7524.5	7532.7	7673.0	7667.5	7900.2	8876.8	7554.4
50°	7107.3	7193.2	7480.2	7767.1	8069.4	8237.8	8425.2	8398.9	8581.7	9587.4	8283.0
52.5°	7825.9	7865.8	8078.5	8290.3	8665.9	9043.4	9312.2	9288.7	9354.7	10317.8	9110.4
55°	8570.9	8600.8	8688.6	8804.4	9309.5	9925.0	10493.4	10456.3	10288.9	11076.3	9927.7
57.5°	9240.7	9301.3	9362.0	9410.0	9957.6	10846.4	11701.8	11704.5	11302.6	11894.6	10772.2
60°	9344.8	9398.2	9799.2	10177.5	11066.4	12075.6	12995.3	12968.1	12351.7	12782.6	11713.6
62.5°	8260.4	8380.8	9050.6	10057.1	12134.5	14324.0	14645.4	14611.9	13606.3	13876.9	12809.7
65°	5919.7	6056.4	6864.7	8377.2	11616.7	16801.4	17623.3	17172.6	15317.0	15222.9	14093.2
67.5°	3415.1	3447.7	3798.0	5012.7	8845.1	16930.9	22166.3	21535.4	17973.6	16749.8	14721.4
70°	2525.4	2524.5	2607.7	3084.8	4786.4	13818.1	24326.9	24892.6	20770.5	17252.2	13833.4
71°	2283.7	2286.4	2379.6	2807.8	3790.8	11566.0	23868.0	25106.2	21507.3	17004.2	13190.8
72.5°	1953.3	1962.4	2091.8	2518.1	3188.9	7976.2	21891.1	23824.5	21856.7	16392.3	12185.2
75°	1481.7	1502.6	1681.8	2122.6	2914.6	4045.1	16066.5	19024.5	19416.4	14464.3	9054.2
77.5°	1057.2	1080.8	1283.5	1785.0	2770.7	3048.6	10759.5	13876.9	14288.7	9269.7	4084.0
80°	668.0	696.1	849.0	1420.2	2603.2	2894.7	6761.5	9327.6	7791.6	2966.2	1039.1
82.5°	391.9	413.7	526.8	927.8	2126.2	2787.9	3978.1	5170.2	3032.3	896.1	472.5
85°	227.2	237.1	328.6	591.1	1544.2	2631.3	2922.7	2890.2	1316.1	438.1	223.6
87.5°	105.9	117.7	194.6	308.7	857.2	1907.2	2309.9	1995.9	818.3	205.5	105.0
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°	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6	7199.6
2.5°	7137.1	7121.7	7057.5	7000.4	6940.7	6862.9	6776.9	6766.0	6713.5	6723.5	6705.4
5°	6995.9	6957.0	6802.2	6661.9	6496.3	6347.8	6186.7	6112.5	6005.7	5998.4	5971.3
7.5°	6794.1	6721.7	6481.8	6215.7	5949.6	5696.1	5445.4	5280.7	5112.3	5040.8	5034.5
10°	6566.9	6443.8	6090.8	5697.0	5313.2	4943.0	4584.6	4319.4	4080.4	3967.3	3962.8
12.5°	6351.5	6169.5	5685.3	5149.4	4624.4	4144.7	3653.2	3304.7	3005.1	2904.6	2862.1
15°	6168.6	5912.5	5290.6	4605.4	3968.2	3302.0	2742.6	2376.0	2099.0	2003.1	1985.0
17.5°	5991.2	5661.7	4886.0	4056.0	3285.7	2553.4	1993.1	1720.7	1573.2	1534.2	1533.3
20°	5814.7	5403.8	4463.3	3493.9	2625.8	1909.9	1532.4	1410.2	1360.4	1355.9	1348.7
22.5°	5614.7	5130.4	4018.9	2930.0	2049.3	1501.6	1302.5	1253.6	1247.3	1263.6	1263.6
25°	5427.3	4858.9	3568.1	2377.8	1594.0	1252.7	1163.1	1153.2	1170.4	1199.3	1202.0
27.5°	5252.6	4597.3	3128.2	1887.2	1277.2	1103.4	1066.3	1078.0	1108.8	1142.3	1143.2
30°	5108.7	4350.2	2701.0	1487.2	1078.9	992.0	985.7	1009.2	1042.7	1069.0	1075.3
32.5°	4997.3	4139.3	2288.2	1195.7	949.5	908.8	914.2	934.1	954.9	969.4	979.4
35°	4945.8	3958.2	1907.2	1008.3	867.1	844.5	851.7	862.6	871.7	882.5	890.7
37.5°	4954.8	3817.9	1566.8	891.6	811.9	800.2	800.2	800.2	800.2	805.6	806.5
40°	5039.0	3737.4	1289.8	817.4	774.8	762.1	752.2	743.1	735.9	739.5	737.7
42.5°	5254.4	3730.1	1087.1	770.3	744.9	724.1	704.2	691.5	682.5	686.1	687.9
45°	5620.1	3820.6	950.4	736.8	716.9	685.2	659.9	646.3	639.9	651.7	653.5
47.5°	6093.5	4018.0	867.1	712.4	690.6	649.0	621.8	609.2	611.0	628.2	632.7
50°	6703.6	4338.4	827.3	697.0	672.5	618.2	590.2	579.3	584.7	609.2	614.6
52.5°	7373.4	4800.0	831.8	692.4	660.8	595.6	565.7	553.0	562.1	584.7	589.3
55°	8146.4	5354.9	907.0	698.8	643.6	581.1	545.8	524.1	531.3	552.1	555.8
57.5°	9005.4	5990.3	1058.1	697.0	621.8	567.5	525.0	492.4	497.8	510.5	514.1
60°	9899.7	6757.9	1292.6	702.4	611.9	551.2	496.9	456.2	454.4	465.2	467.1
62.5°	10973.2	7645.8	1560.5	706.0	618.2	530.4	459.8	420.0	414.6	417.3	419.1
65°	12079.3	8288.5	1460.0	691.5	638.1	513.2	427.2	384.7	374.7	372.9	373.8
67.5°	12113.7	7599.7	1023.7	662.6	646.3	504.2	402.8	354.8	338.5	332.2	331.3
70°	10863.6	6174.0	797.4	631.8	613.7	489.7	380.2	330.4	305.9	296.0	295.1
71°	10253.6	5683.5	755.8	616.4	589.3	475.2	370.2	319.5	294.2	283.3	281.5
72.5°	9296.8	5095.1	705.1	592.0	542.2	438.1	351.2	304.1	277.9	265.2	262.5
75°	6671.9	3331.9	605.5	527.7	449.0	349.4	307.8	273.4	250.7	235.3	233.5
77.5°	2570.6	1326.0	458.0	439.0	344.0	273.4	253.4	236.2	220.0	204.6	203.7
80°	794.7	592.9	334.0	330.4	248.9	203.7	197.3	192.8	186.5	170.2	166.5
82.5°	424.5	340.3	229.9	213.6	162.9	135.8	143.0	144.8	145.7	128.5	126.7
85°	202.8	180.1	129.4	121.3	95.0	76.0	87.8	95.0	95.9	78.7	73.3
87.5°	96.9	94.1	60.6	46.2	35.3	25.3	30.8	38.0	41.6	29.9	26.2
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)