

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: P319380

Luminaire Tested: **GAN-SA6D-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319380
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-SA6D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 45462 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

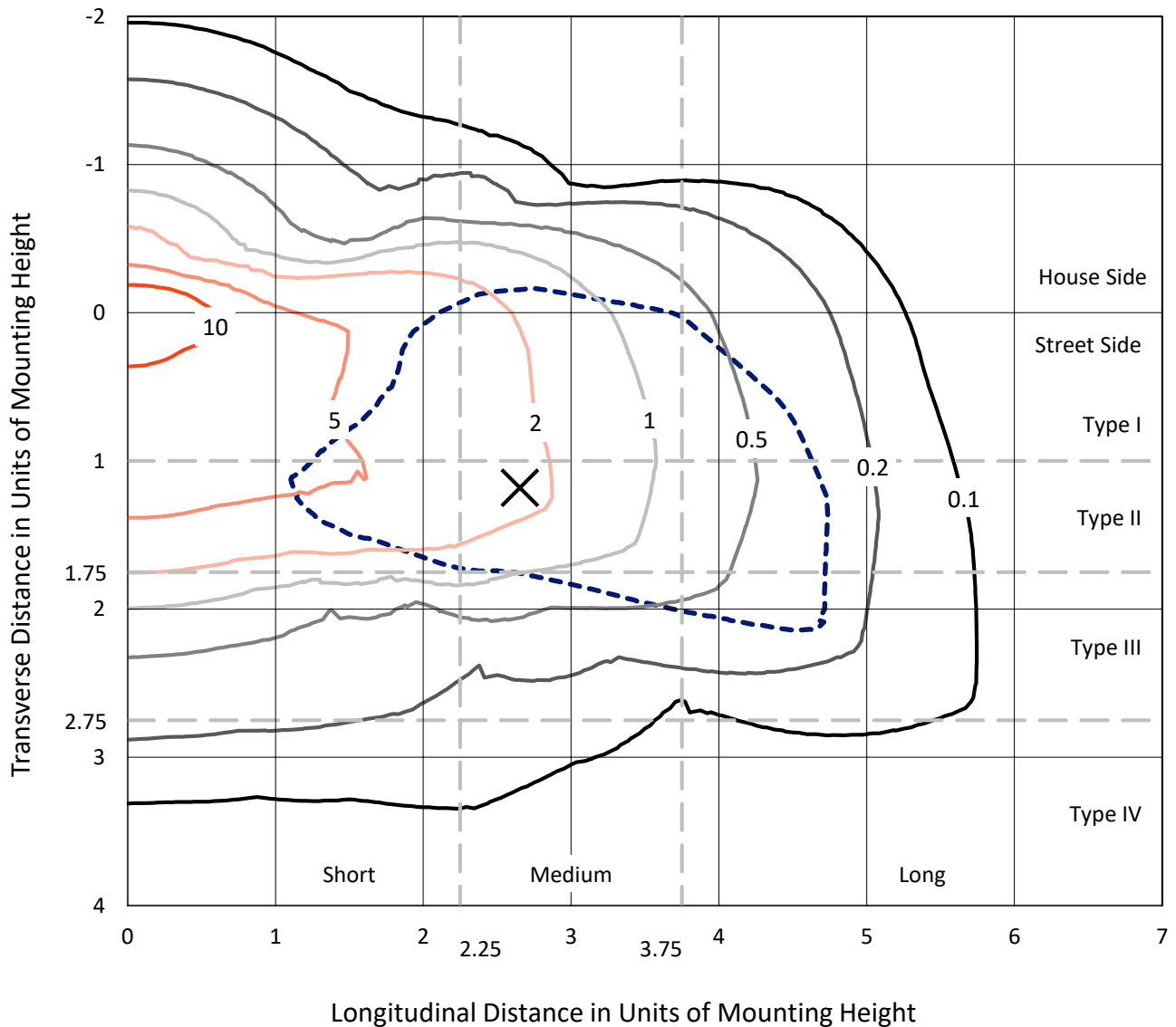
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

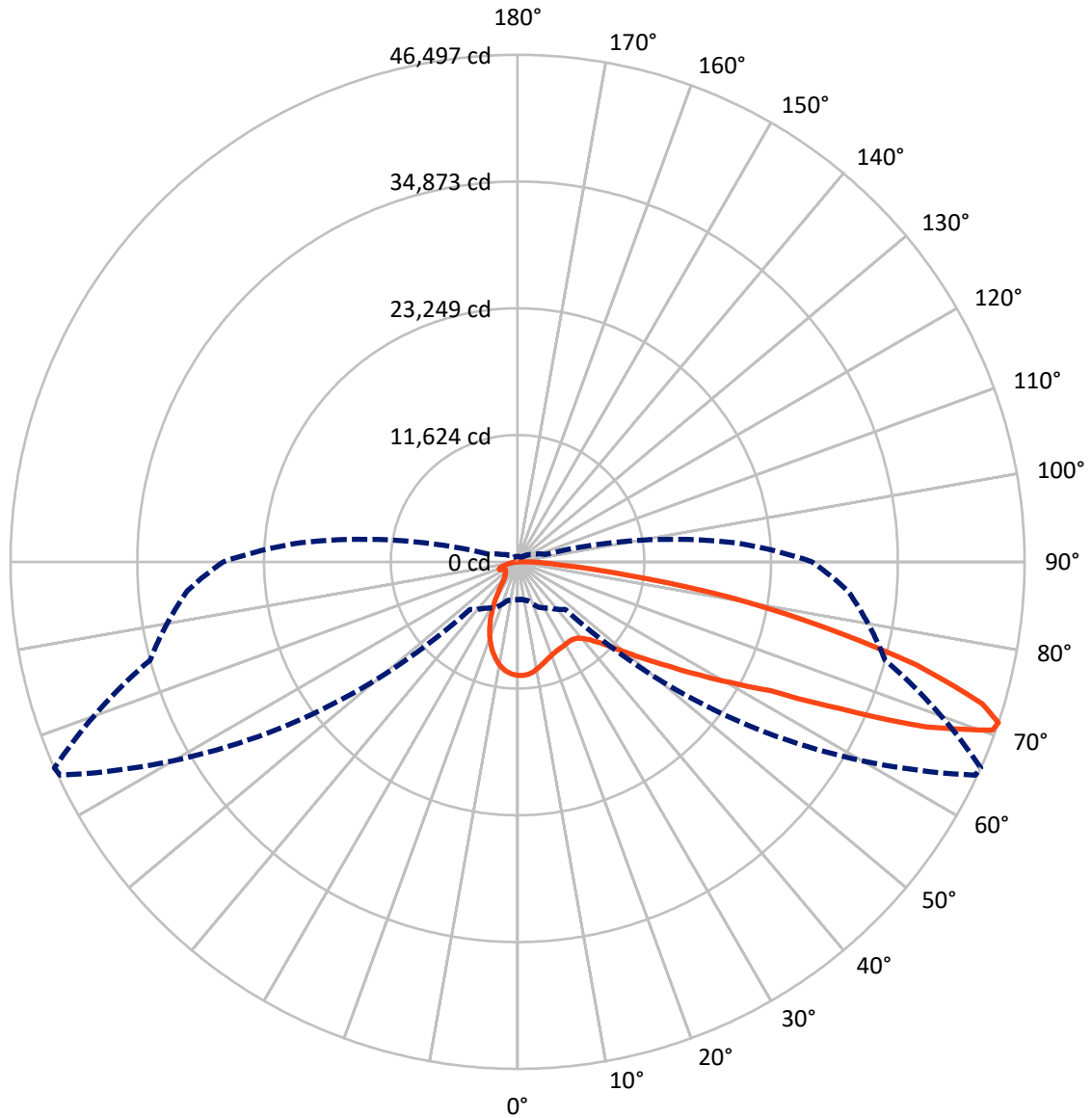
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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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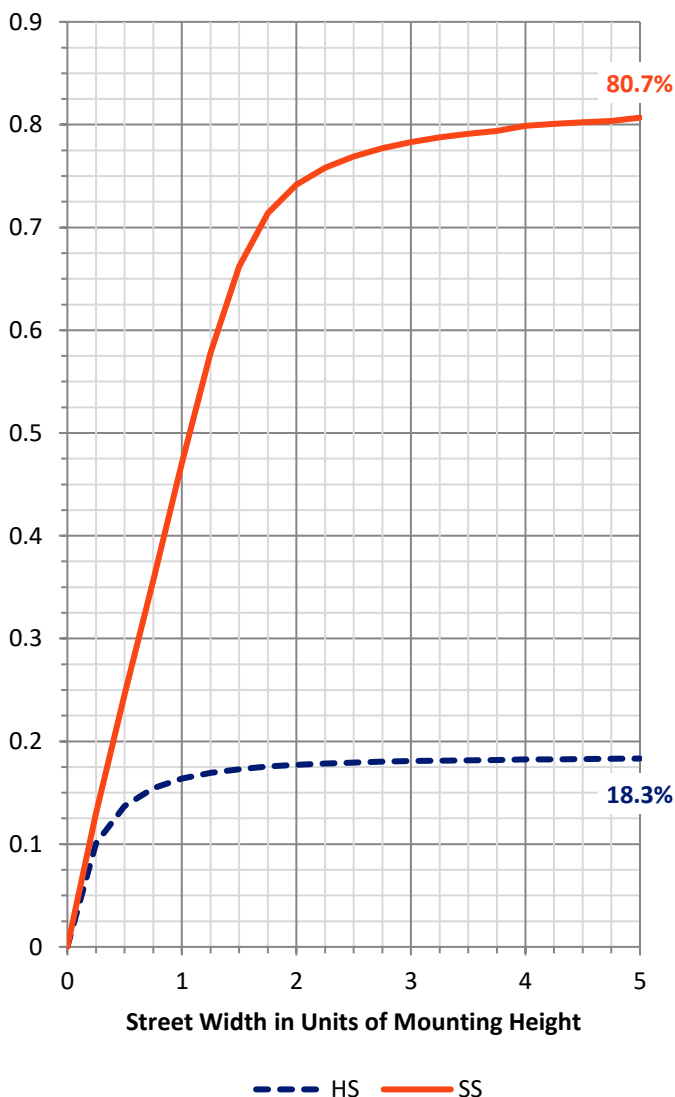
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8425.4	0.0	8425.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37036.7	0.0	37036.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	45462.0	0.0	45462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.7	2.0
10°-20°	2198.7	4.8
20°-30°	2953.4	6.5
30°-40°	3885.1	8.5
40°-50°	5651.9	12.4
50°-60°	8828.8	19.4
60°-70°	11059.5	24.3
70°-80°	8436.0	18.6
80°-90°	1531.9	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°	45462.0	100.0
0°-180°	45462.0	100.0

Coefficient of Utilization

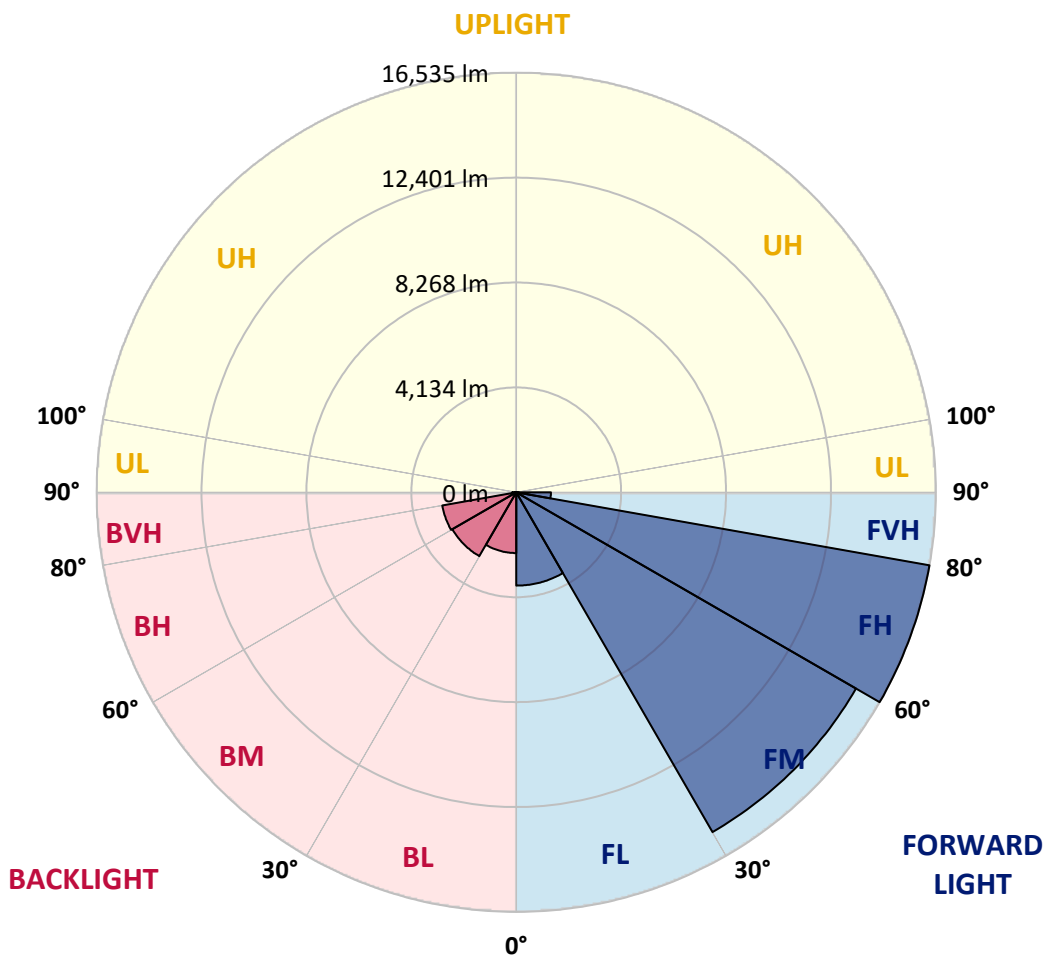


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3676.2	8.1			
FM (30°-60°)	15459.4	34.0			
FH (60°-80°)	16535.0	36.4			G5
FVH (80°-90°)	1366.1	3.0			G5
BL (0°-30°)	2392.6	5.3	B3/2500		
BM (30°-60°)	2906.5	6.4	B3/5000		
BH (60°-80°)	2960.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	165.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5
2.5°	10221.4	10205.7	10252.8	10301.5	10320.3	10351.7	10398.8	10425.5	10423.9	10428.6	10412.9
5°	9543.3	9522.9	9617.1	9694.0	9841.6	10007.9	10210.4	10354.8	10358.0	10439.6	10461.6
7.5°	8901.3	8887.2	8995.5	9119.5	9290.6	9544.9	9872.9	10183.7	10202.6	10423.9	10500.8
10°	8386.5	8383.4	8488.5	8623.5	8822.9	9107.0	9483.7	9938.9	9967.1	10348.5	10507.1
12.5°	7984.7	7991.0	8082.0	8235.8	8446.2	8742.8	9150.9	9664.2	9709.7	10229.2	10471.0
15°	7688.0	7713.1	7786.9	7942.3	8149.5	8450.9	8870.0	9409.9	9479.0	10095.8	10450.6
17.5°	7518.5	7546.8	7598.6	7727.3	7921.9	8212.3	8609.4	9201.1	9263.9	9993.8	10452.1
20°	7468.3	7491.8	7521.6	7600.1	7764.9	8028.6	8403.8	9012.8	9080.3	9912.2	10467.8
22.5°	7567.2	7584.4	7587.6	7581.3	7681.7	7896.8	8254.7	8874.7	8946.9	9858.8	10478.8
25°	7779.1	7802.6	7785.3	7727.3	7694.3	7826.2	8177.7	8783.6	8855.8	9819.6	10456.8
27.5°	8097.7	8100.8	8086.7	8011.4	7856.0	7834.0	8154.2	8730.3	8799.3	9774.1	10411.3
30°	8530.9	8551.3	8526.2	8424.2	8169.9	7959.6	8182.5	8678.5	8741.2	9716.0	10337.6
32.5°	9037.9	9088.1	9086.6	8979.8	8615.7	8240.5	8298.6	8647.1	8695.7	9654.8	10248.1
35°	9563.7	9632.8	9761.5	9716.0	9265.5	8684.7	8521.5	8697.3	8730.3	9646.9	10185.3
37.5°	10110.0	10179.0	10444.3	10566.7	10039.3	9320.4	8873.1	8874.7	8890.4	9742.7	10180.6
40°	10681.3	10755.1	11153.8	11472.4	11042.3	10125.7	9439.7	9245.1	9227.8	9978.1	10273.2
42.5°	11481.8	11547.7	12026.5	12433.0	12155.2	11156.9	10223.0	9816.4	9780.3	10439.6	10569.9
45°	12494.2	12550.7	13059.3	13494.1	13351.2	12334.1	11207.1	10602.8	10596.5	11208.7	11171.0
47.5°	13698.1	13742.1	14198.8	14619.5	14671.3	13688.7	12444.0	11816.1	11714.1	12263.5	12101.8
50°	14952.3	15000.9	15311.7	15763.7	16148.3	15501.6	14035.6	13302.6	13166.0	13655.7	13420.3
52.5°	15782.6	15846.9	16116.9	16689.8	17809.0	17488.8	15917.6	15104.5	14897.3	15343.1	15162.6
55°	15412.2	15556.6	15969.4	16887.6	19136.9	20524.4	18239.0	17206.2	16972.4	17342.8	17236.1
57.5°	13727.9	13925.7	14489.2	15906.6	19323.7	23199.1	21748.7	19681.5	19516.7	19410.0	19458.6
60°	10649.9	10839.8	11538.3	13385.8	18022.4	25151.7	27030.5	22732.9	22494.3	21485.0	21529.0
62.5°	7537.3	7441.6	7920.3	9271.8	14644.6	25380.8	33040.6	26813.9	26029.1	23676.2	23483.2
65°	5748.0	5726.0	5941.0	6371.1	8870.0	22638.7	36620.9	33673.2	32447.3	26253.6	25798.4
67.5°	4723.0	4683.8	4895.7	5521.9	5711.9	14605.4	36699.4	41631.2	40427.3	29461.9	28476.1
70°	3883.3	3839.3	4037.1	4845.4	5278.6	7407.1	30887.1	46291.4	46227.0	33524.1	30497.8
71°	3481.4	3450.0	3687.0	4584.9	5186.0	6173.3	26667.9	46303.9	46497.0	34899.0	30378.5
72.5°	2834.7	2845.7	3096.9	4081.0	5117.0	5451.3	19599.9	44145.7	44553.8	36209.7	29293.9
75°	1883.6	1893.0	2222.6	3139.3	4961.6	5333.6	10772.3	37043.2	37793.4	35424.9	26730.7
77.5°	1265.1	1262.0	1486.4	2153.5	4322.7	5333.6	6316.2	27705.5	28529.5	28187.3	20607.6
80°	871.1	864.9	1023.4	1486.4	3272.7	5397.9	4883.1	19416.3	19665.8	15222.2	8375.5
82.5°	533.7	538.4	668.7	1050.1	2227.3	4858.0	4610.0	10587.1	10315.6	4269.4	2092.3
85°	306.1	304.5	426.9	711.0	1429.9	4099.9	4495.4	4556.6	4179.9	1285.5	756.6
87.5°	109.9	117.7	229.2	394.0	819.3	2855.1	3814.2	2370.1	2136.3	580.8	342.2
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°	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5	10414.5
2.5°	10401.9	10411.3	10400.3	10337.6	10284.2	10197.9	10149.2	10081.7	10061.3	10051.9	10077.0
5°	10441.1	10444.3	10351.7	10186.9	10001.7	9783.5	9626.5	9433.4	9342.4	9303.2	9328.3
7.5°	10477.2	10463.1	10260.6	9945.1	9603.0	9223.1	8885.6	8576.4	8395.9	8322.2	8328.4
10°	10482.0	10422.3	10097.4	9609.2	9078.7	8521.5	8003.5	7526.4	7225.0	7028.8	7088.4
12.5°	10433.3	10332.8	9857.2	9174.5	8438.3	7678.6	6978.6	6262.8	5832.7	5633.4	5639.7
15°	10395.6	10213.6	9562.2	8662.8	7673.9	6667.8	5711.9	4870.5	4412.2	4208.2	4112.4
17.5°	10364.2	10084.8	9220.0	8086.7	6771.4	5495.3	4346.3	3596.0	3344.9	3285.2	3260.1
20°	10320.3	9948.3	8838.6	7419.6	5743.3	4183.1	3173.8	2803.4	2804.9	2874.0	2883.4
22.5°	10259.1	9792.9	8432.0	6670.9	4639.8	3046.6	2487.9	2381.1	2489.4	2621.3	2644.8
25°	10168.0	9609.2	7980.0	5843.7	3537.9	2341.9	2125.3	2120.6	2252.4	2390.5	2410.9
27.5°	10039.3	9369.1	7477.7	4955.3	2607.1	1990.3	1904.0	1936.9	2034.2	2134.7	2142.5
30°	9866.7	9089.7	6923.6	4018.2	2043.7	1772.1	1762.7	1792.5	1852.2	1922.8	1929.1
32.5°	9676.7	8805.6	6331.9	3111.0	1750.1	1654.4	1663.8	1677.9	1706.2	1734.4	1740.7
35°	9504.1	8515.2	5726.0	2363.9	1610.4	1577.5	1571.2	1568.1	1571.2	1561.8	1563.3
37.5°	9392.6	8275.1	5095.0	1882.0	1530.4	1510.0	1491.1	1467.6	1440.9	1425.2	1428.4
40°	9351.8	8096.1	4456.2	1626.1	1464.5	1450.3	1414.2	1364.0	1332.6	1323.2	1323.2
42.5°	9461.7	8003.5	3839.3	1497.4	1409.5	1386.0	1326.3	1268.3	1244.7	1243.1	1241.6
45°	9797.6	8041.2	3252.3	1426.8	1359.3	1313.8	1235.3	1186.6	1170.9	1174.1	1172.5
47.5°	10400.3	8278.2	2750.0	1379.7	1309.1	1249.4	1161.5	1122.3	1103.4	1103.4	1105.0
50°	11425.3	8832.3	2349.7	1340.5	1266.7	1189.8	1108.2	1059.5	1034.4	1032.8	1032.8
52.5°	12918.0	9824.3	2100.2	1307.5	1219.6	1136.4	1054.8	993.6	963.7	957.5	954.3
55°	14789.0	11246.4	2031.1	1285.5	1156.8	1078.3	990.4	929.2	896.3	882.1	880.6
57.5°	16881.3	12976.1	2167.7	1258.8	1092.5	1009.3	919.8	861.7	827.2	809.9	808.4
60°	18998.7	14864.4	2724.9	1221.2	1039.1	933.9	847.6	794.2	759.7	740.9	737.7
62.5°	21119.3	16854.6	3862.8	1218.0	1001.4	861.7	773.8	728.3	695.3	674.9	670.2
65°	23511.4	19033.3	5156.2	1301.2	988.9	795.8	698.5	662.4	634.1	615.3	613.7
67.5°	26258.3	21492.9	5032.2	1472.3	1031.2	736.2	627.9	599.6	579.2	563.5	561.9
70°	27546.9	21108.3	3128.3	1593.2	1090.9	678.1	560.4	540.0	524.3	513.3	508.6
71°	27007.0	20042.5	2622.8	1579.0	1084.6	653.0	533.7	518.0	502.3	492.9	488.2
72.5°	25534.7	18278.3	2188.1	1469.2	1014.0	607.4	499.1	483.4	469.3	458.3	455.2
75°	22913.4	16324.1	1751.7	1174.1	808.4	513.3	437.9	420.7	409.7	403.4	397.1
77.5°	16843.6	11649.8	1354.6	927.6	594.9	419.1	373.6	361.0	350.0	340.6	335.9
80°	6452.7	4512.7	912.0	692.2	436.4	331.2	301.4	295.1	284.1	277.8	277.8
82.5°	1737.6	1348.3	486.6	419.1	292.0	241.7	230.7	227.6	218.2	205.6	207.2
85°	703.2	594.9	273.1	230.7	178.9	142.8	155.4	157.0	146.0	130.3	131.8
87.5°	309.2	252.7	152.3	102.0	78.5	54.9	70.6	70.6	64.4	53.4	48.7
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)