

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: P319420

Luminaire Tested: **GAN-SA6D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319420
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-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 45461 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

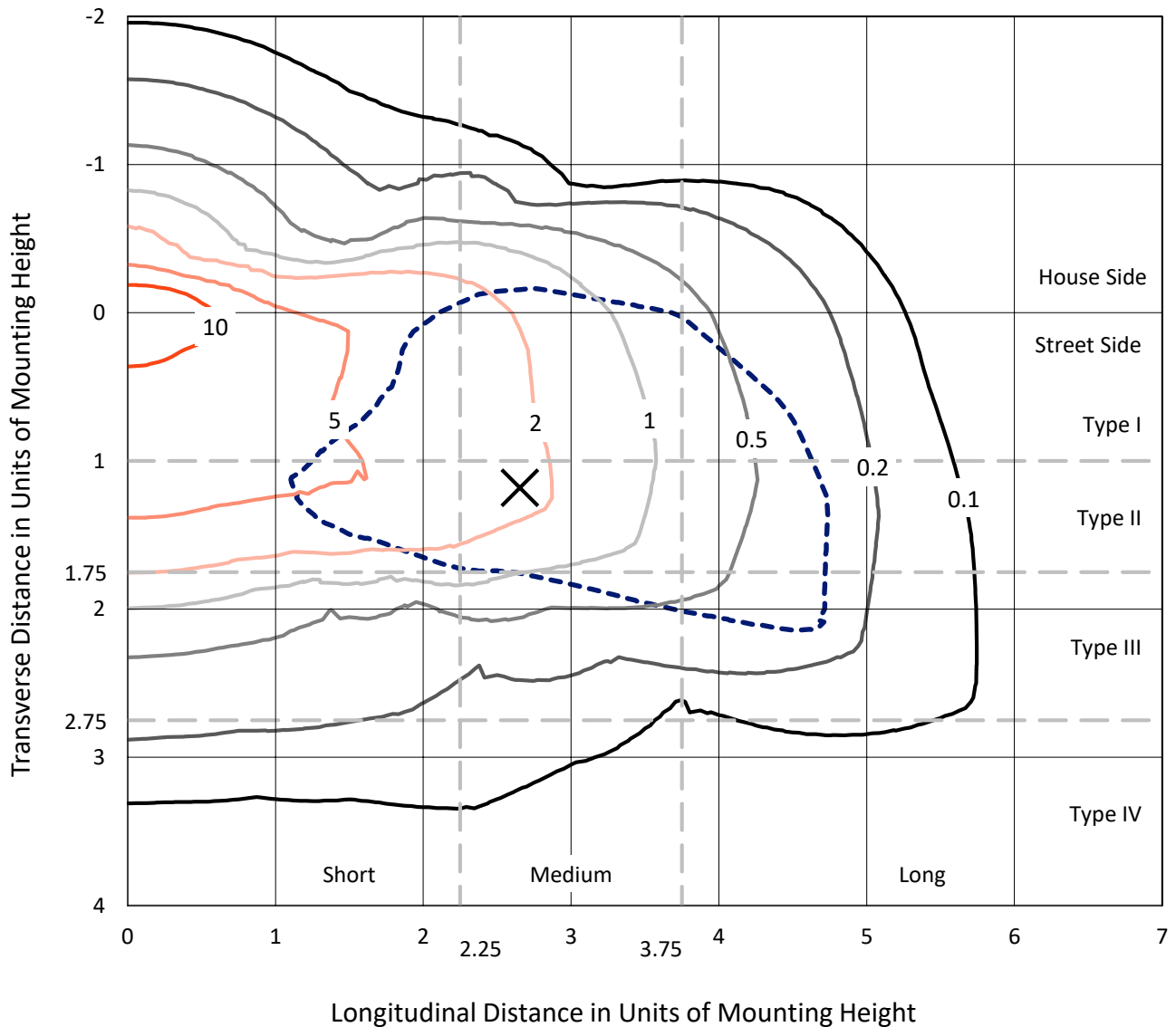
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

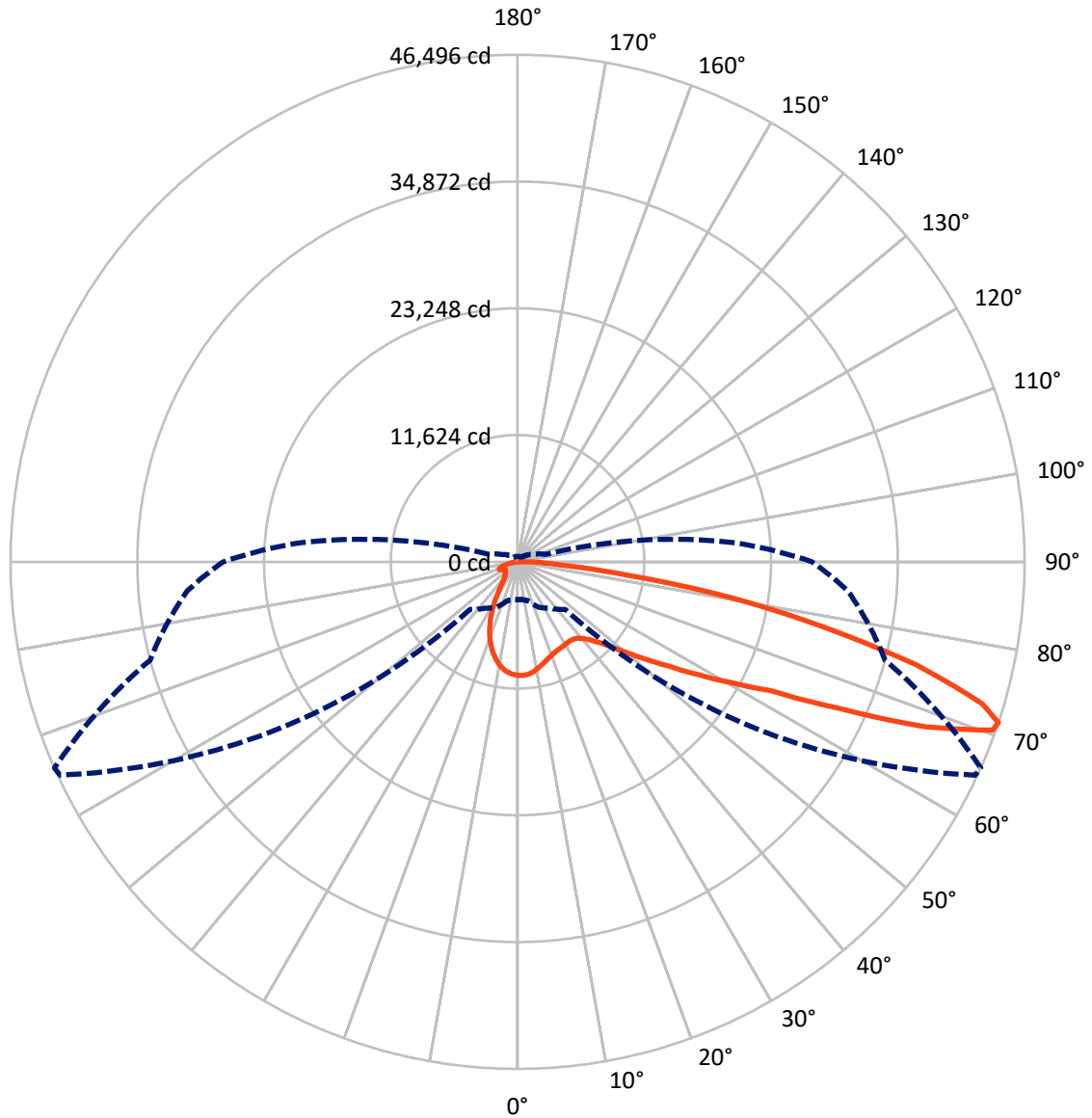
✕ Max cd
 - - - 1/2 Max cd



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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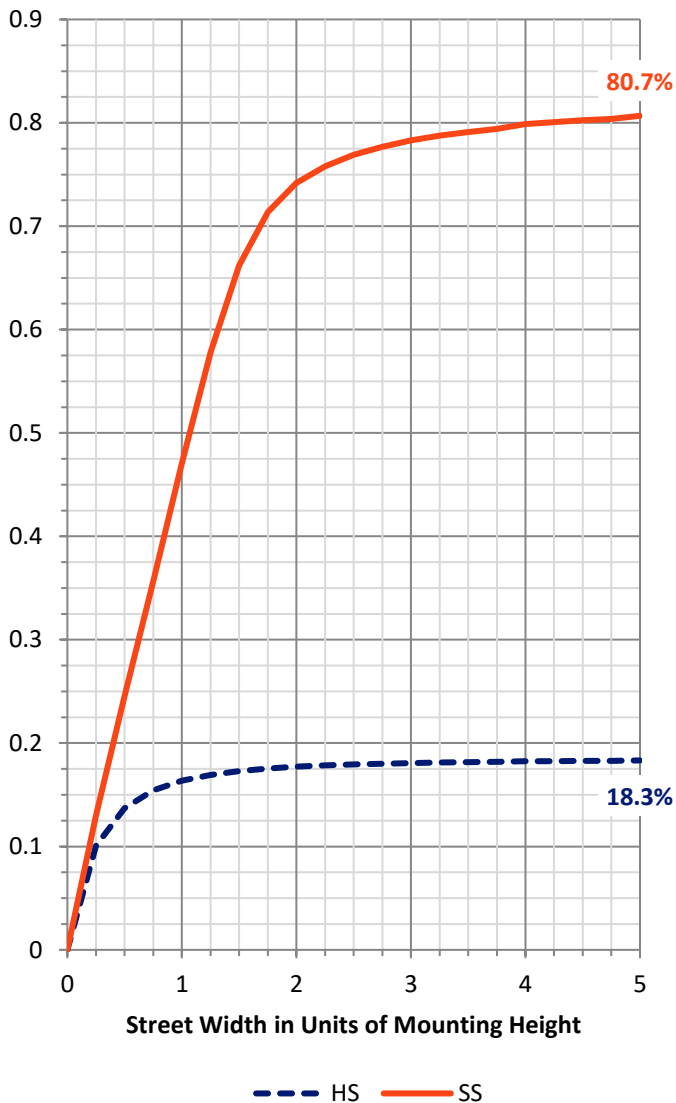
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8425.2	0.0	8425.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37035.8	0.0	37035.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	45461.0	0.0	45461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.7	2.0
10°-20°	2198.6	4.8
20°-30°	2953.3	6.5
30°-40°	3885.1	8.5
40°-50°	5651.7	12.4
50°-60°	8828.6	19.4
60°-70°	11059.3	24.3
70°-80°	8435.8	18.6
80°-90°	1531.8	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°	45461.0	100.0
0°-180°	45461.0	100.0

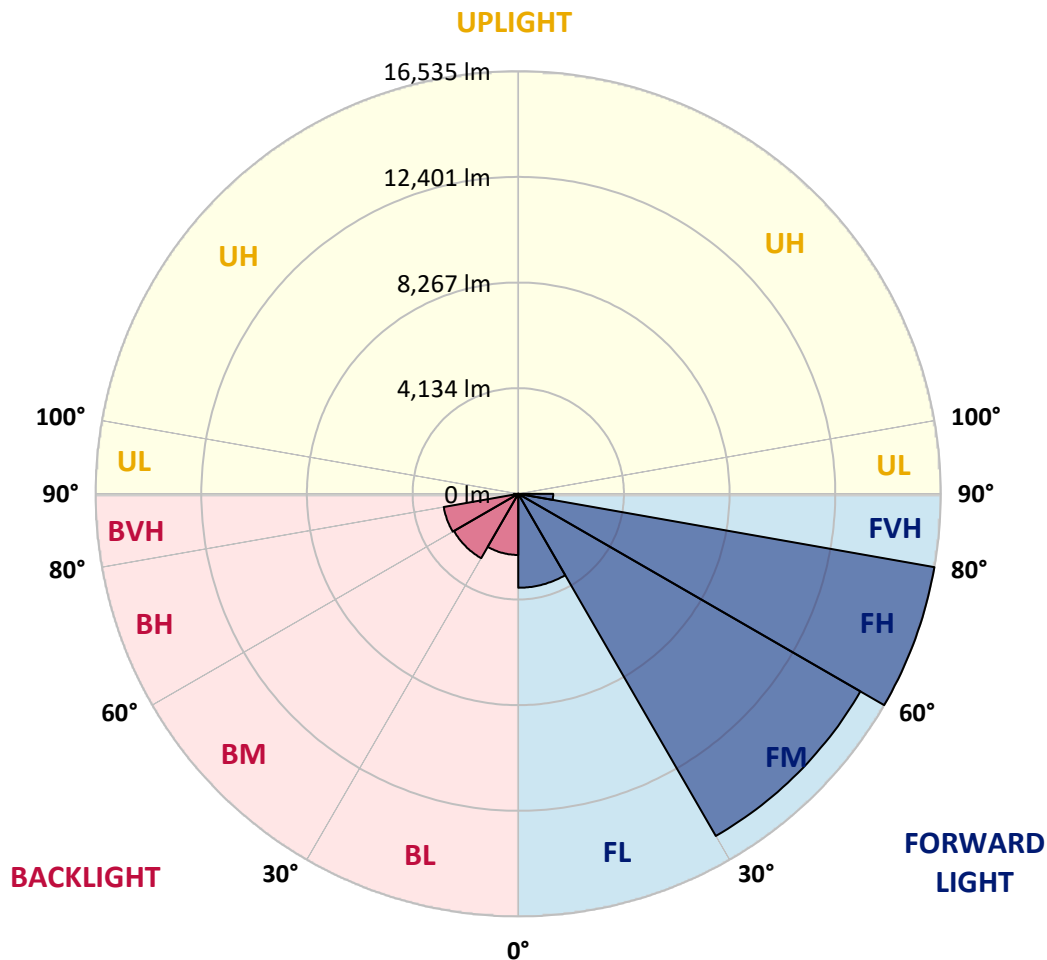


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3676.2	8.1			
FM (30°-60°)	15459.0	34.0			
FH (60°-80°)	16534.6	36.4			G5
FVH (80°-90°)	1366.0	3.0			G5
BL (0°-30°)	2392.5	5.3	B3/2500		
BM (30°-60°)	2906.4	6.4	B3/5000		
BH (60°-80°)	2960.4	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°	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2
2.5°	10221.2	10205.5	10252.6	10301.2	10320.1	10351.5	10398.5	10425.2	10423.7	10428.4	10412.7
5°	9543.1	9522.7	9616.9	9693.8	9841.3	10007.7	10210.2	10354.6	10357.7	10439.3	10461.3
7.5°	8901.1	8887.0	8995.3	9119.3	9290.4	9544.7	9872.7	10183.5	10202.3	10423.7	10500.6
10°	8386.3	8383.2	8488.3	8623.3	8822.7	9106.8	9483.5	9938.6	9966.9	10348.3	10506.8
12.5°	7984.5	7990.8	8081.8	8235.6	8446.0	8742.6	9150.7	9664.0	9709.5	10229.0	10470.7
15°	7687.9	7713.0	7786.7	7942.1	8149.3	8450.7	8869.8	9409.7	9478.8	10095.6	10450.3
17.5°	7518.3	7546.6	7598.4	7727.1	7921.7	8212.1	8609.2	9200.9	9263.7	9993.6	10451.9
20°	7468.1	7491.7	7521.5	7600.0	7764.8	8028.5	8403.6	9012.6	9080.1	9912.0	10467.6
22.5°	7567.0	7584.3	7587.4	7581.1	7681.6	7896.6	8254.5	8874.5	8946.7	9858.6	10478.6
25°	7778.9	7802.4	7785.2	7727.1	7694.1	7826.0	8177.6	8783.4	8855.6	9819.4	10456.6
27.5°	8097.5	8100.7	8086.5	8011.2	7855.8	7833.8	8154.0	8730.1	8799.1	9773.8	10411.1
30°	8530.7	8551.1	8526.0	8424.0	8169.7	7959.4	8182.3	8678.3	8741.1	9715.8	10337.3
32.5°	9037.7	9087.9	9086.4	8979.6	8615.5	8240.4	8298.4	8646.9	8695.5	9654.6	10247.9
35°	9563.5	9632.6	9761.3	9715.8	9265.3	8684.5	8521.3	8697.1	8730.1	9646.7	10185.1
37.5°	10109.7	10178.8	10444.1	10566.5	10039.1	9320.2	8872.9	8874.5	8890.2	9742.5	10180.4
40°	10681.1	10754.8	11153.5	11472.1	11042.1	10125.4	9439.5	9244.9	9227.6	9977.9	10273.0
42.5°	11481.6	11547.5	12026.2	12432.7	12154.9	11156.7	10222.7	9816.2	9780.1	10439.3	10569.6
45°	12493.9	12550.4	13059.0	13493.8	13350.9	12333.8	11206.9	10602.6	10596.3	11208.4	11170.8
47.5°	13697.8	13741.8	14198.5	14619.2	14671.0	13688.4	12443.7	11815.9	11713.9	12263.2	12101.5
50°	14951.9	15000.6	15311.4	15763.4	16148.0	15501.3	14035.3	13302.3	13165.7	13655.4	13420.0
52.5°	15782.2	15846.6	16116.6	16689.5	17808.6	17488.4	15917.2	15104.2	14897.0	15342.8	15162.2
55°	15411.8	15556.2	15969.0	16887.2	19136.5	20524.0	18238.6	17205.9	16972.0	17342.4	17235.7
57.5°	13727.6	13925.4	14488.9	15906.2	19323.2	23198.6	21748.3	19681.1	19516.3	19409.6	19458.2
60°	10649.7	10839.6	11538.1	13385.5	18022.0	25151.1	27029.9	22732.4	22493.8	21484.6	21528.5
62.5°	7537.2	7441.4	7920.2	9271.6	14644.3	25380.3	33039.9	26813.3	26028.5	23675.7	23482.6
65°	5747.8	5725.9	5940.9	6371.0	8869.8	22638.2	36620.1	33672.4	32446.6	26253.0	25797.8
67.5°	4722.9	4683.7	4895.6	5521.8	5711.7	14605.0	36698.6	41630.3	40426.4	29461.2	28475.5
70°	3883.2	3839.2	4037.0	4845.3	5278.5	7406.9	30886.4	46290.4	46226.0	33523.3	30497.1
71°	3481.4	3450.0	3687.0	4584.8	5185.9	6173.2	26667.3	46302.9	46496.0	34898.3	30377.9
72.5°	2834.7	2845.7	3096.8	4080.9	5116.9	5451.2	19599.5	44144.7	44552.8	36208.9	29293.3
75°	1883.5	1892.9	2222.5	3139.2	4961.5	5333.5	10772.1	37042.3	37792.6	35424.1	26730.1
77.5°	1265.1	1262.0	1486.4	2153.5	4322.7	5333.5	6316.0	27704.8	28528.9	28186.7	20607.2
80°	871.1	864.8	1023.4	1486.4	3272.6	5397.8	4883.0	19415.8	19665.4	15221.9	8375.3
82.5°	533.7	538.4	668.6	1050.1	2227.2	4857.9	4609.9	10586.9	10315.4	4269.3	2092.3
85°	306.1	304.5	426.9	711.0	1429.9	4099.8	4495.3	4556.5	4179.8	1285.5	756.5
87.5°	109.9	117.7	229.2	394.0	819.3	2855.1	3814.1	2370.1	2136.2	580.7	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°	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2	10414.2
2.5°	10401.7	10411.1	10400.1	10337.3	10284.0	10197.6	10149.0	10081.5	10061.1	10051.7	10076.8
5°	10440.9	10444.1	10351.5	10186.6	10001.4	9783.3	9626.3	9433.2	9342.2	9303.0	9328.1
7.5°	10477.0	10462.9	10260.4	9944.9	9602.8	9222.9	8885.5	8576.2	8395.7	8322.0	8328.2
10°	10481.7	10422.1	10097.2	9609.0	9078.5	8521.3	8003.3	7526.2	7224.8	7028.6	7088.3
12.5°	10433.1	10332.6	9857.0	9174.3	8438.1	7678.4	6978.4	6262.7	5832.6	5633.3	5639.5
15°	10395.4	10213.3	9561.9	8662.6	7673.7	6667.6	5711.7	4870.4	4412.1	4208.1	4112.3
17.5°	10364.0	10084.6	9219.8	8086.5	6771.2	5495.1	4346.2	3595.9	3344.8	3285.2	3260.0
20°	10320.1	9948.1	8838.4	7419.5	5743.1	4183.0	3173.7	2803.3	2804.9	2873.9	2883.3
22.5°	10258.8	9792.7	8431.8	6670.8	4639.7	3046.6	2487.8	2381.1	2489.4	2621.2	2644.8
25°	10167.8	9609.0	7979.8	5843.6	3537.9	2341.8	2125.2	2120.5	2252.4	2390.5	2410.9
27.5°	10039.1	9368.9	7477.5	4955.2	2607.1	1990.2	1903.9	1936.9	2034.2	2134.6	2142.5
30°	9866.4	9089.5	6923.5	4018.2	2043.6	1772.1	1762.7	1792.5	1852.1	1922.7	1929.0
32.5°	9676.5	8805.4	6331.7	3110.9	1750.1	1654.3	1663.8	1677.9	1706.1	1734.4	1740.7
35°	9503.9	8515.0	5725.9	2363.8	1610.4	1577.4	1571.2	1568.0	1571.2	1561.7	1563.3
37.5°	9392.4	8274.9	5094.9	1881.9	1530.4	1509.9	1491.1	1467.6	1440.9	1425.2	1428.3
40°	9351.6	8095.9	4456.1	1626.1	1464.4	1450.3	1414.2	1364.0	1332.6	1323.2	1323.2
42.5°	9461.5	8003.3	3839.2	1497.4	1409.5	1385.9	1326.3	1268.2	1244.7	1243.1	1241.5
45°	9797.4	8041.0	3252.2	1426.8	1359.3	1313.7	1235.3	1186.6	1170.9	1174.1	1172.5
47.5°	10400.1	8278.0	2749.9	1379.7	1309.0	1249.4	1161.5	1122.3	1103.4	1103.4	1105.0
50°	11425.1	8832.1	2349.7	1340.4	1266.7	1189.7	1108.1	1059.5	1034.4	1032.8	1032.8
52.5°	12917.7	9824.1	2100.1	1307.5	1219.6	1136.4	1054.8	993.6	963.7	957.5	954.3
55°	14788.7	11246.1	2031.1	1285.5	1156.8	1078.3	990.4	929.2	896.2	882.1	880.5
57.5°	16880.9	12975.8	2167.6	1258.8	1092.4	1009.2	919.8	861.7	827.2	809.9	808.3
60°	18998.3	14864.0	2724.8	1221.1	1039.1	933.9	847.6	794.2	759.7	740.8	737.7
62.5°	21118.8	16854.3	3862.8	1218.0	1001.4	861.7	773.8	728.3	695.3	674.9	670.2
65°	23510.9	19032.9	5156.1	1301.2	988.8	795.8	698.5	662.4	634.1	615.3	613.7
67.5°	26257.7	21492.4	5032.1	1472.3	1031.2	736.1	627.8	599.6	579.2	563.5	561.9
70°	27546.3	21107.9	3128.2	1593.1	1090.9	678.1	560.3	539.9	524.2	513.3	508.5
71°	27006.4	20042.1	2622.8	1579.0	1084.6	652.9	533.7	518.0	502.3	492.9	488.1
72.5°	25534.1	18277.9	2188.0	1469.1	1014.0	607.4	499.1	483.4	469.3	458.3	455.2
75°	22912.9	16323.7	1751.7	1174.1	808.3	513.3	437.9	420.7	409.7	403.4	397.1
77.5°	16843.3	11649.5	1354.6	927.6	594.9	419.1	373.6	361.0	350.0	340.6	335.9
80°	6452.6	4512.6	911.9	692.2	436.3	331.2	301.4	295.1	284.1	277.8	277.8
82.5°	1737.5	1348.3	486.6	419.1	291.9	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)