

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: P319419

Luminaire Tested: **GAN-SA5D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319419
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-SA5D-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 37988 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

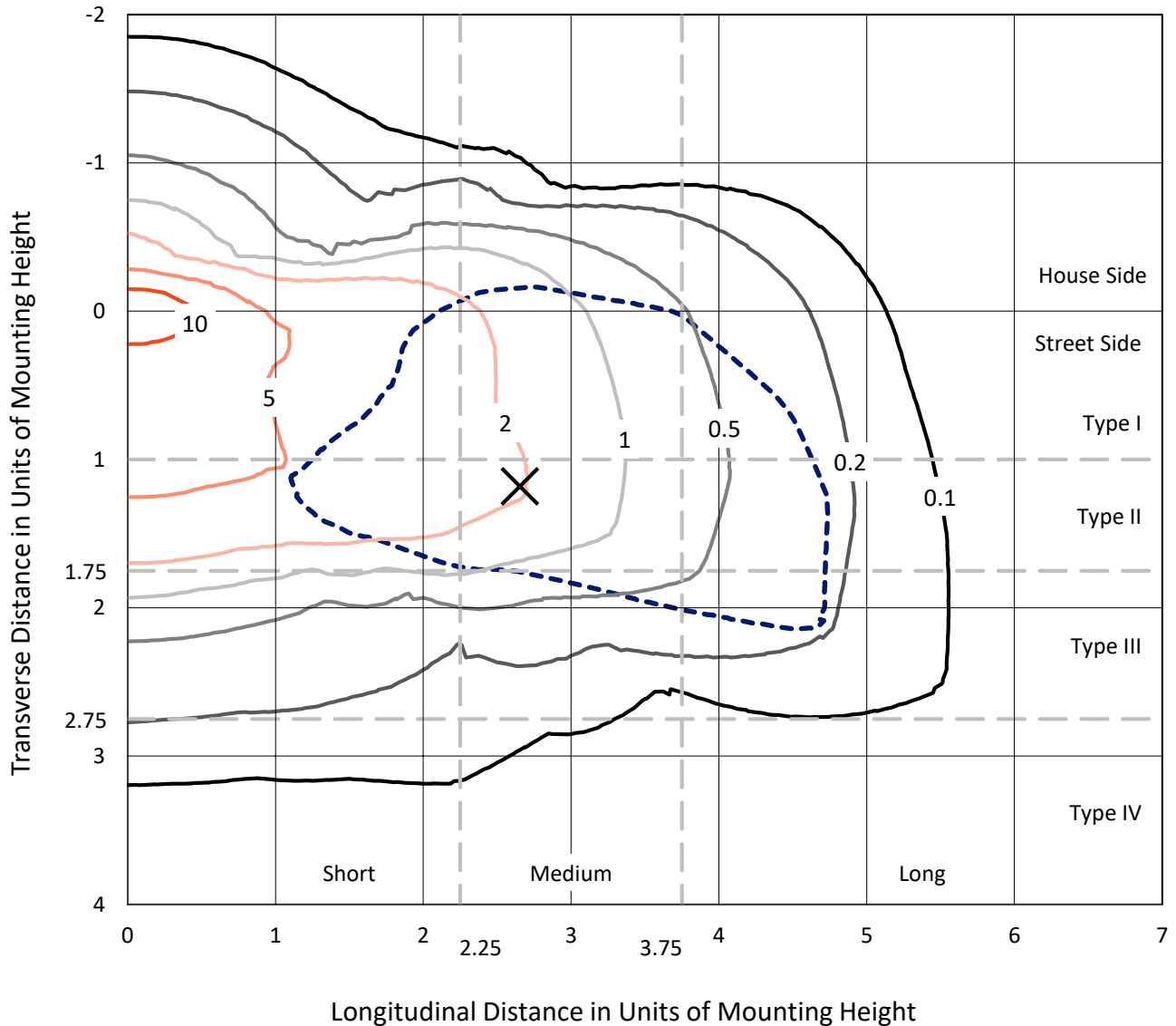
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

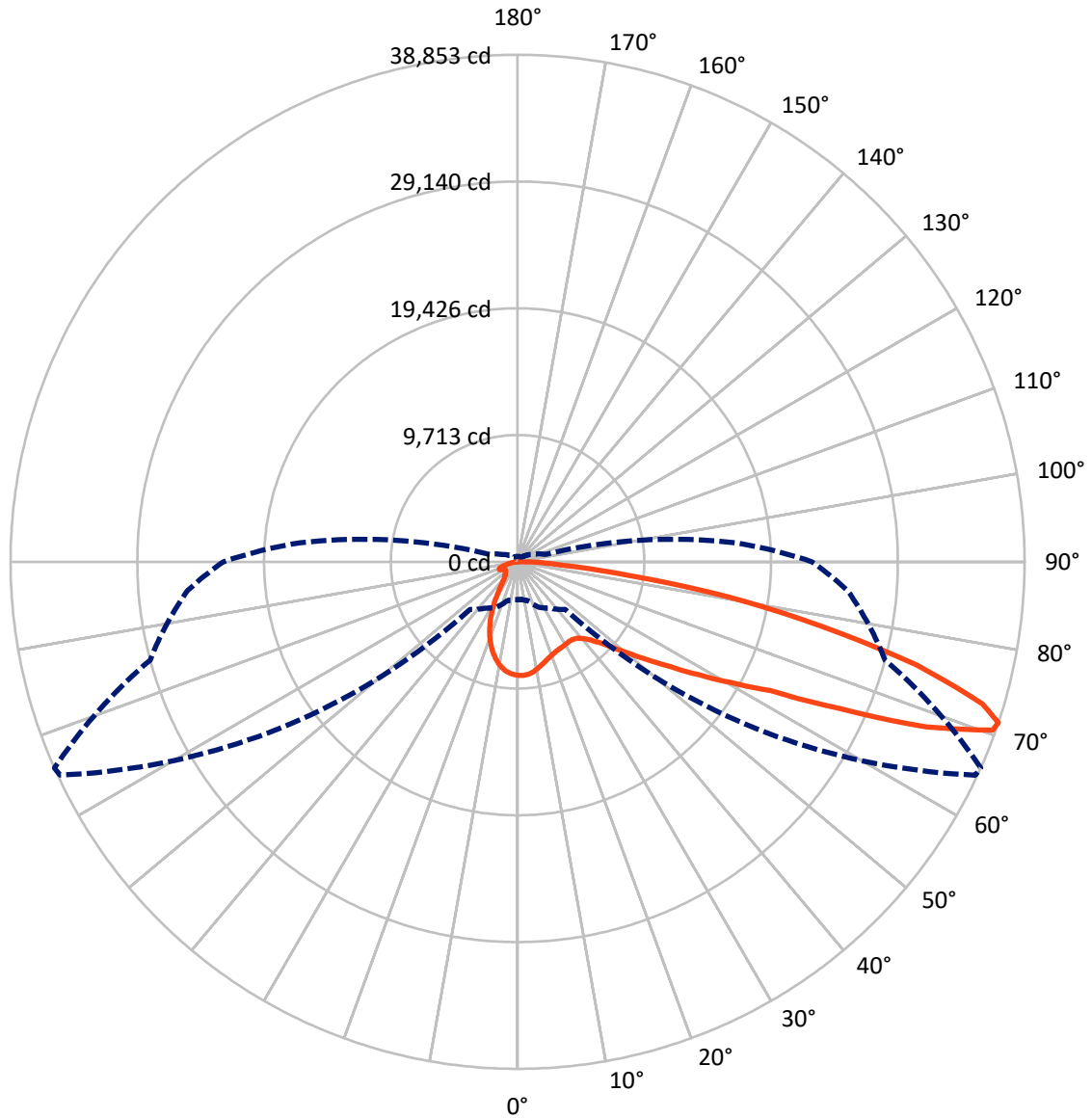
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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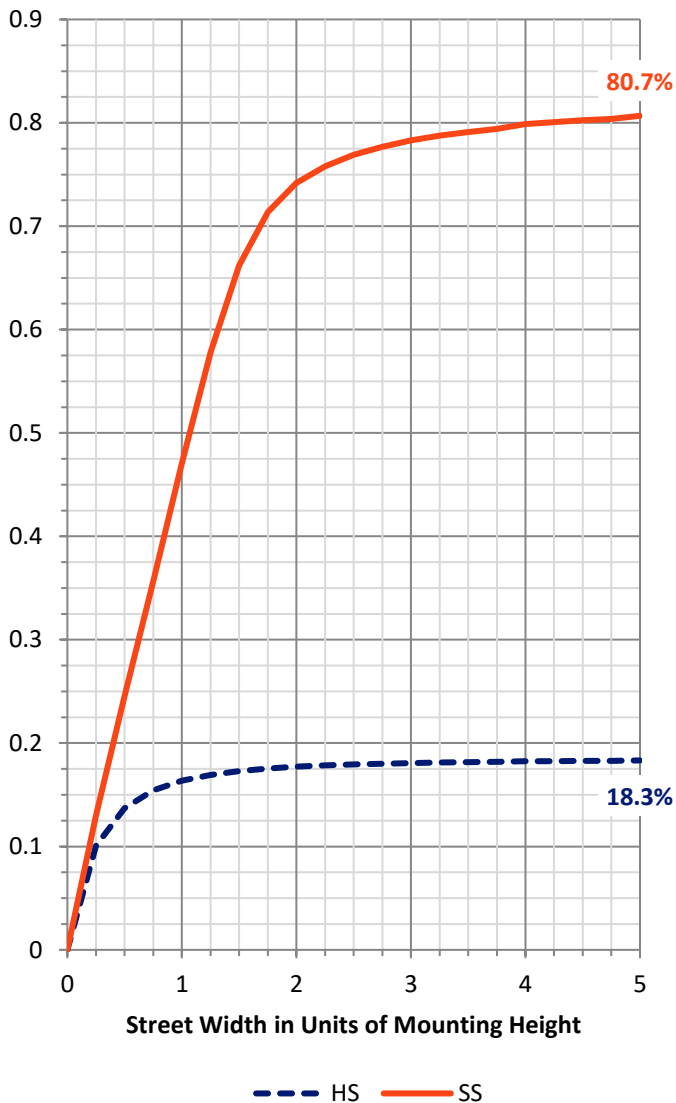
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7040.2	0.0	7040.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	30947.8	0.0	30947.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	37988.0	0.0	37988.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.0	2.0
10°-20°	1837.2	4.8
20°-30°	2467.9	6.5
30°-40°	3246.4	8.5
40°-50°	4722.7	12.4
50°-60°	7377.4	19.4
60°-70°	9241.3	24.3
70°-80°	7049.1	18.6
80°-90°	1280.0	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°	37988.0	100.0
0°-180°	37988.0	100.0

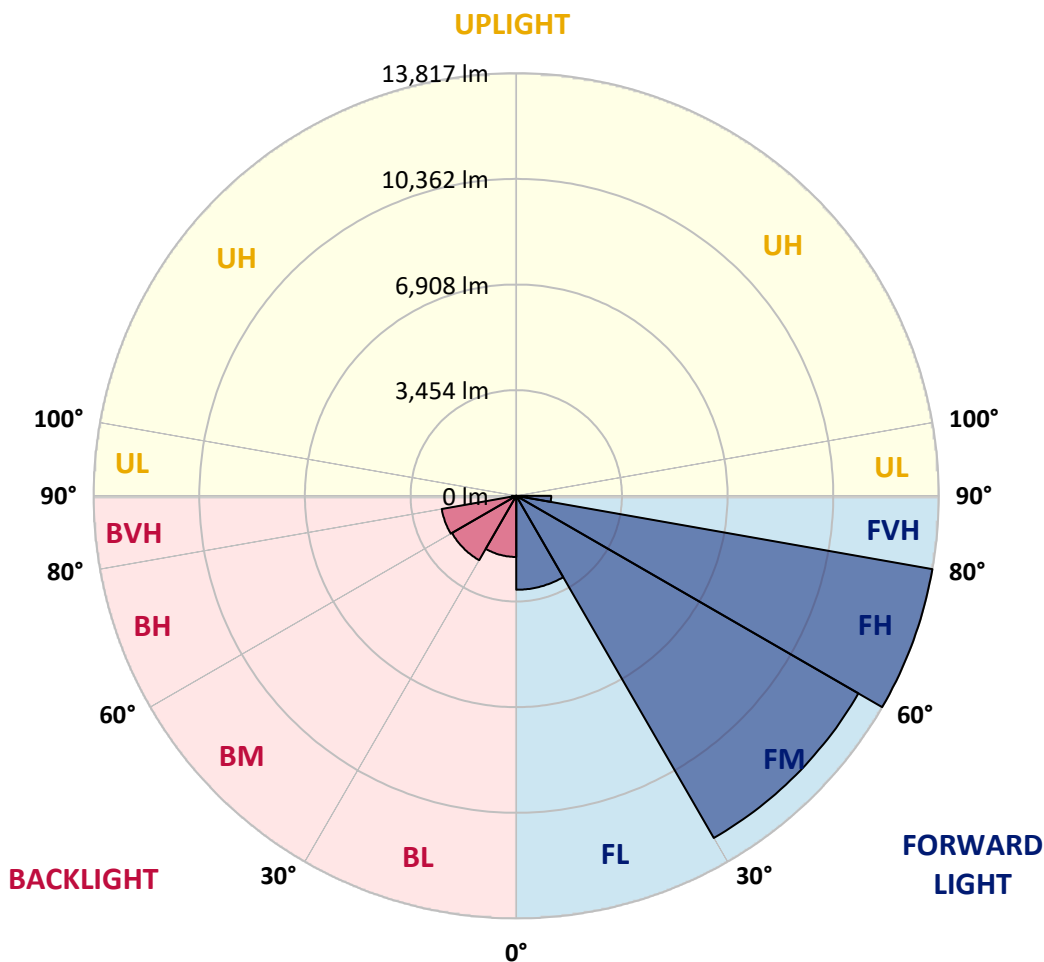


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.9	8.1			
FM (30°-60°)	12917.8	34.0			
FH (60°-80°)	13816.6	36.4			G5
FVH (80°-90°)	1141.5	3.0			G5
BL (0°-30°)	1999.2	5.3	B3/2500		
BM (30°-60°)	2428.7	6.4	B2/2500		
BH (60°-80°)	2473.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.6	0.4			G2/225
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°	65°	66°	75°	85°
0°	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3
2.5°	8541.0	8527.9	8567.2	8607.9	8623.6	8649.9	8689.2	8711.5	8710.2	8714.1	8701.0
5°	7974.4	7957.3	8036.0	8100.3	8223.6	8362.6	8531.8	8652.5	8655.1	8723.3	8741.7
7.5°	7438.0	7426.2	7516.6	7620.3	7763.2	7975.7	8249.8	8509.5	8525.3	8710.2	8774.5
10°	7007.8	7005.1	7093.0	7205.8	7372.4	7609.8	7924.6	8304.9	8328.5	8647.2	8779.7
12.5°	6672.0	6677.2	6753.3	6881.8	7057.6	7305.5	7646.5	8075.4	8113.4	8547.5	8749.5
15°	6424.1	6445.1	6506.7	6636.6	6809.7	7061.5	7411.7	7862.9	7920.6	8436.1	8732.5
17.5°	6282.5	6306.1	6349.3	6456.9	6619.5	6862.2	7194.0	7688.5	7740.9	8350.8	8733.8
20°	6240.5	6260.2	6285.1	6350.7	6488.4	6708.7	7022.2	7531.1	7587.5	8282.6	8746.9
22.5°	6323.1	6337.5	6340.2	6334.9	6418.9	6598.5	6897.6	7415.7	7476.0	8238.0	8756.1
25°	6500.2	6519.9	6505.4	6456.9	6429.4	6539.5	6833.3	7339.6	7399.9	8205.2	8737.7
27.5°	6766.4	6769.1	6757.2	6694.3	6564.4	6546.1	6813.6	7295.0	7352.7	8167.2	8699.7
30°	7128.4	7145.5	7124.5	7039.2	6826.8	6651.0	6837.3	7251.7	7304.2	8118.7	8638.0
32.5°	7552.1	7594.0	7592.7	7503.5	7199.2	6885.8	6934.3	7225.5	7266.1	8067.5	8563.3
35°	7991.4	8049.1	8156.7	8118.7	7742.2	7257.0	7120.6	7267.4	7295.0	8061.0	8510.8
37.5°	8447.9	8505.6	8727.2	8829.5	8388.8	7788.1	7414.3	7415.7	7428.8	8141.0	8506.9
40°	8925.3	8986.9	9320.1	9586.3	9226.9	8461.0	7887.8	7725.2	7710.8	8337.7	8584.3
42.5°	9594.2	9649.3	10049.3	10389.0	10156.9	9322.7	8542.3	8202.6	8172.4	8723.3	8832.2
45°	10440.2	10487.4	10912.3	11275.6	11156.3	10306.4	9364.7	8859.7	8854.5	9366.0	9334.5
47.5°	11446.1	11482.9	11864.5	12216.0	12259.3	11438.3	10398.2	9873.6	9788.3	10247.4	10112.3
50°	12494.1	12534.7	12794.4	13172.2	13493.5	12953.1	11728.1	11115.6	11001.5	11410.7	11214.0
52.5°	13187.9	13241.7	13467.3	13946.0	14881.2	14613.6	13300.7	12621.3	12448.2	12820.7	12669.8
55°	12878.4	12999.0	13344.0	14111.3	15990.8	17150.2	15240.5	14377.5	14182.1	14491.6	14402.4
57.5°	11471.1	11636.3	12107.2	13291.5	16146.8	19385.1	18173.2	16445.9	16308.2	16219.0	16259.6
60°	8899.1	9057.8	9641.4	11185.1	15059.5	21016.7	22586.7	18995.6	18796.2	17952.9	17989.6
62.5°	6298.2	6218.2	6618.2	7747.5	12237.0	21208.2	27608.7	22405.7	21749.9	19783.8	19622.5
65°	4803.0	4784.6	4964.3	5323.7	7411.7	18916.9	30600.4	28137.3	27112.9	21937.4	21557.1
67.5°	3946.5	3913.7	4090.8	4614.1	4772.8	12204.2	30666.0	34787.0	33781.0	24618.3	23794.6
70°	3244.8	3208.1	3373.4	4048.8	4410.8	6189.3	25809.2	38681.0	38627.3	28012.7	25483.9
71°	2909.1	2882.8	3080.9	3831.1	4333.5	5158.4	22283.7	38691.5	38852.9	29161.6	25384.3
72.5°	2368.7	2377.9	2587.7	3410.1	4275.7	4555.1	16377.7	36888.1	37229.1	30256.8	24478.0
75°	1573.9	1581.8	1857.2	2623.2	4145.9	4456.7	9001.4	30953.2	31580.2	29601.0	22336.2
77.5°	1057.1	1054.5	1242.1	1799.5	3612.1	4456.7	5277.8	23150.7	23839.2	23553.3	17219.7
80°	727.9	722.7	855.1	1242.1	2734.6	4510.5	4080.3	16224.2	16432.8	12719.7	6998.6
82.5°	445.9	449.9	558.7	877.4	1861.1	4059.3	3852.1	8846.6	8619.7	3567.5	1748.3
85°	255.8	254.4	356.7	594.1	1194.8	3425.8	3756.4	3807.5	3492.7	1074.2	632.2
87.5°	91.8	98.4	191.5	329.2	684.6	2385.8	3187.1	1980.5	1785.1	485.3	285.9
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°	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3	8702.3
2.5°	8691.8	8699.7	8690.5	8638.0	8593.5	8521.3	8480.7	8424.3	8407.2	8399.3	8420.3
5°	8724.6	8727.2	8649.9	8512.1	8357.4	8175.1	8043.9	7882.6	7806.5	7773.7	7794.7
7.5°	8754.8	8743.0	8573.8	8310.2	8024.2	7706.8	7424.8	7166.5	7015.6	6954.0	6959.2
10°	8758.7	8708.9	8437.4	8029.5	7586.2	7120.6	6687.7	6289.0	6037.2	5873.2	5923.1
12.5°	8718.1	8634.1	8236.7	7666.2	7051.0	6416.2	5831.3	5233.2	4873.8	4707.3	4712.5
15°	8686.6	8534.4	7990.1	7238.6	6412.3	5571.6	4772.8	4069.8	3686.8	3516.3	3436.3
17.5°	8660.3	8426.9	7704.2	6757.2	5658.1	4591.8	3631.8	3004.8	2795.0	2745.1	2724.1
20°	8623.6	8312.8	7385.5	6199.8	4799.1	3495.4	2652.0	2342.5	2343.8	2401.5	2409.4
22.5°	8572.5	8182.9	7045.8	5574.2	3877.0	2545.8	2078.9	1989.7	2080.2	2190.3	2210.0
25°	8496.4	8029.5	6668.1	4883.0	2956.3	1956.9	1775.9	1771.9	1882.1	1997.5	2014.6
27.5°	8388.8	7828.8	6248.4	4140.6	2178.5	1663.1	1590.9	1618.5	1699.8	1783.7	1790.3
30°	8244.6	7595.3	5785.4	3357.6	1707.7	1480.8	1472.9	1497.8	1547.7	1606.7	1611.9
32.5°	8085.9	7357.9	5290.9	2599.5	1462.4	1382.4	1390.3	1402.1	1425.7	1449.3	1454.5
35°	7941.6	7115.3	4784.6	1975.2	1345.7	1318.1	1312.9	1310.3	1312.9	1305.0	1306.3
37.5°	7848.5	6914.6	4257.4	1572.6	1278.8	1261.7	1246.0	1226.3	1204.0	1190.9	1193.5
40°	7814.4	6765.1	3723.6	1358.8	1223.7	1211.9	1181.7	1139.8	1113.5	1105.7	1105.7
42.5°	7906.2	6687.7	3208.1	1251.2	1177.8	1158.1	1108.3	1059.8	1040.1	1038.8	1037.5
45°	8186.9	6719.2	2717.6	1192.2	1135.8	1097.8	1032.2	991.6	978.4	981.1	979.7
47.5°	8690.5	6917.3	2297.9	1152.9	1093.9	1044.0	970.6	937.8	922.0	922.0	923.4
50°	9547.0	7380.2	1963.4	1120.1	1058.4	994.2	926.0	885.3	864.3	863.0	863.0
52.5°	10794.3	8209.2	1754.9	1092.5	1019.1	949.6	881.4	830.2	805.3	800.1	797.4
55°	12357.7	9397.5	1697.2	1074.2	966.6	901.1	827.6	776.5	748.9	737.1	735.8
57.5°	14106.0	10842.8	1811.3	1051.9	912.9	843.3	768.6	720.1	691.2	676.8	675.5
60°	15875.3	12420.6	2276.9	1020.4	868.3	780.4	708.3	663.7	634.8	619.1	616.4
62.5°	17647.3	14083.7	3227.8	1017.8	836.8	720.1	646.6	608.6	581.0	564.0	560.0
65°	19646.1	15904.2	4308.5	1087.3	826.3	665.0	583.7	553.5	529.9	514.1	512.8
67.5°	21941.4	17959.4	4204.9	1230.3	861.7	615.1	524.6	501.0	484.0	470.9	469.5
70°	23018.2	17638.1	2614.0	1331.3	911.5	566.6	468.2	451.2	438.1	428.9	425.0
71°	22567.0	16747.5	2191.6	1319.4	906.3	545.6	445.9	432.8	419.7	411.8	407.9
72.5°	21336.7	15273.3	1828.3	1227.6	847.3	507.6	417.1	404.0	392.2	383.0	380.4
75°	19146.4	13640.4	1463.7	981.1	675.5	428.9	365.9	351.5	342.3	337.1	331.8
77.5°	14074.5	9734.5	1131.9	775.1	497.1	350.2	312.2	301.7	292.5	284.6	280.7
80°	5391.9	3770.8	762.0	578.4	364.6	276.7	251.8	246.6	237.4	232.1	232.1
82.5°	1451.9	1126.6	406.6	350.2	244.0	202.0	192.8	190.2	182.3	171.8	173.1
85°	587.6	497.1	228.2	192.8	149.5	119.4	129.8	131.2	122.0	108.9	110.2
87.5°	258.4	211.2	127.2	85.3	65.6	45.9	59.0	59.0	53.8	44.6	40.7
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)