

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: P319681

Luminaire Tested: **GAN-SA7B-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319681
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-SA7B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 40424 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

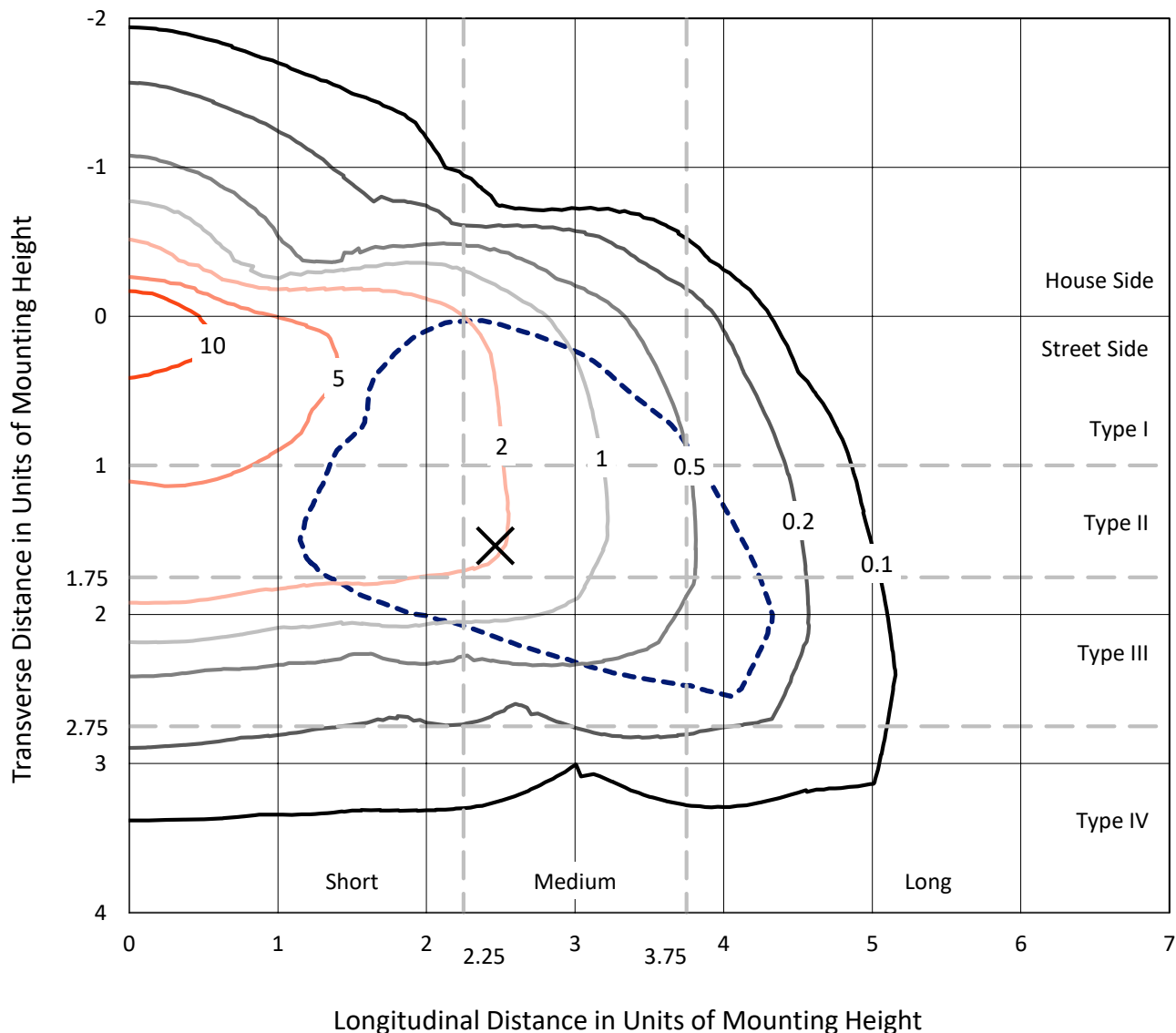
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

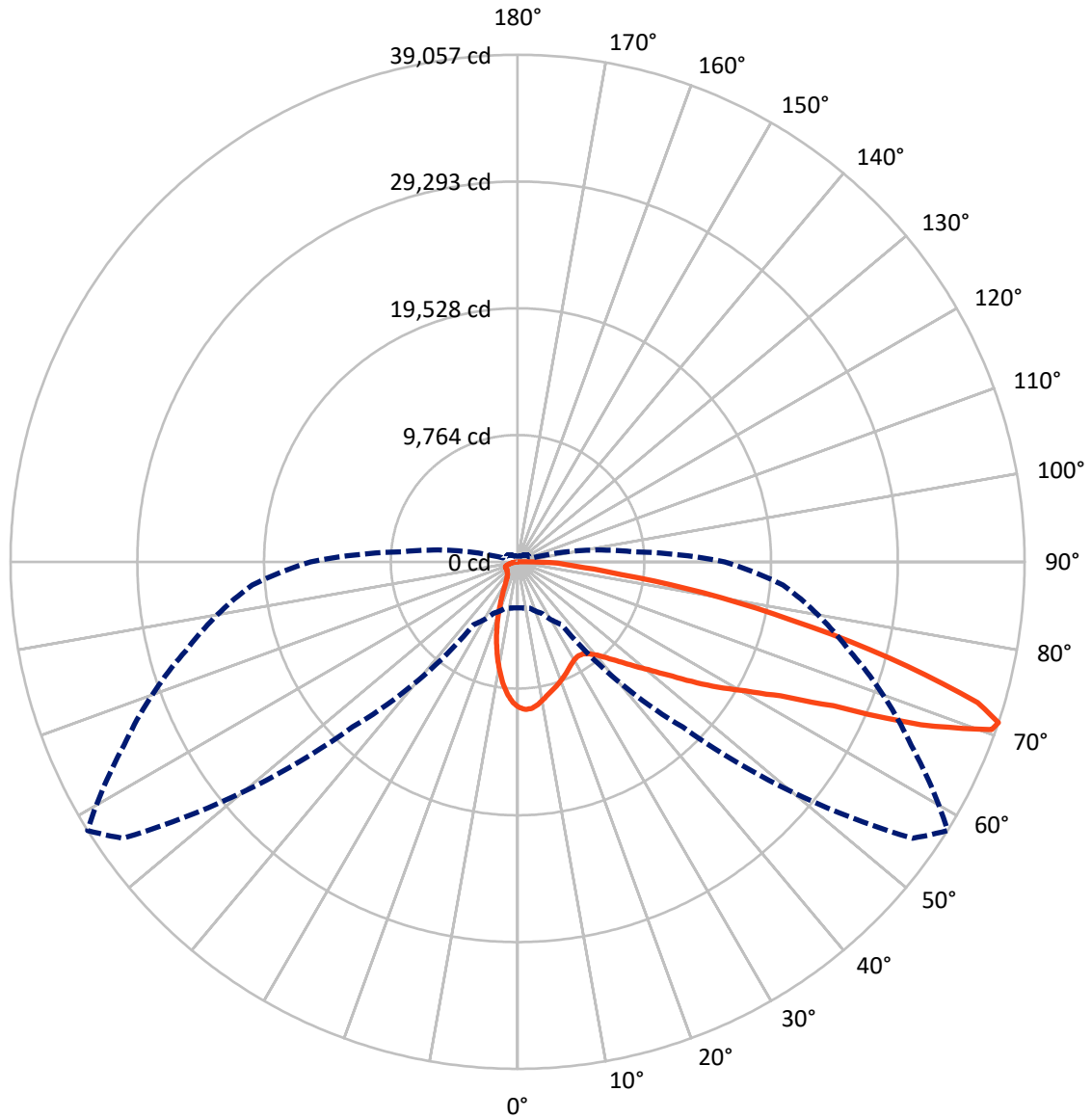
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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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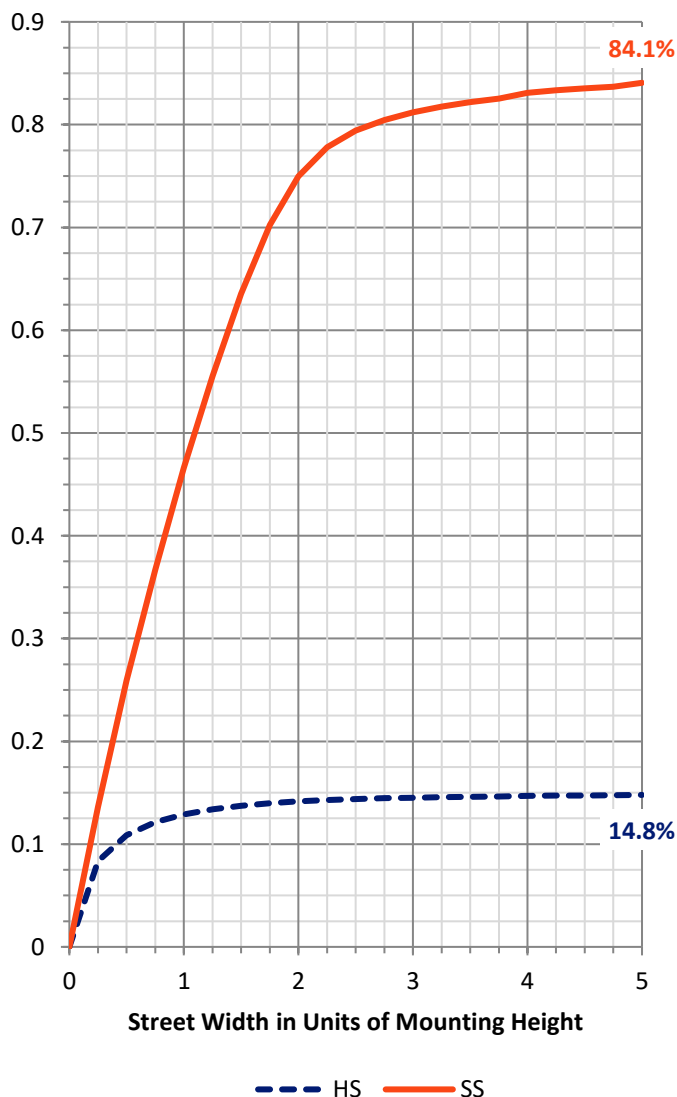
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6043.7	0.0	6043.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	34380.3	0.0	34380.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	40424.0	0.0	40424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.2	2.4
10°-20°	2148.5	5.3
20°-30°	2730.6	6.8
30°-40°	3478.2	8.6
40°-50°	4932.3	12.2
50°-60°	7632.9	18.9
60°-70°	10391.2	25.7
70°-80°	6932.1	17.1
80°-90°	1212.0	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°	40424.0	100.0
0°-180°	40424.0	100.0

Coefficient of Utilization

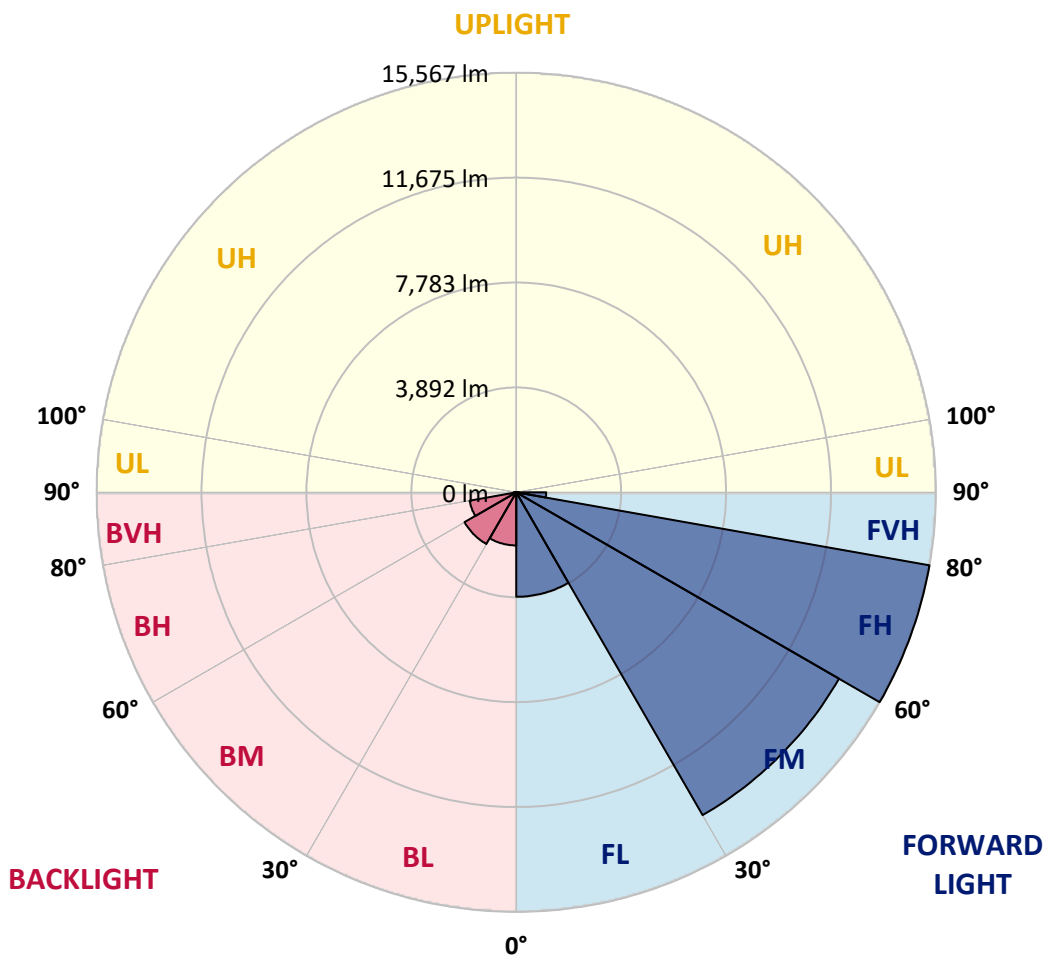


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3875.3	9.6			
FM (30°-60°)	13827.0	34.2			
FH (60°-80°)	15566.8	38.5			G5
FVH (80°-90°)	1111.3	2.7			G5
BL (0°-30°)	1970.1	4.9	B3/2500		
BM (30°-60°)	2216.4	5.5	B2/2500		
BH (60°-80°)	1756.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.2			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°	58°	65°	75°	85°
0°	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2
2.5°	11497.3	11481.8	11487.4	11476.1	11449.4	11422.6	11383.2	11390.2	11335.3	11253.7	11152.3
5°	11280.4	11274.8	11317.0	11341.0	11360.7	11345.2	11333.9	11348.0	11267.7	11155.1	10979.1
7.5°	10825.6	10763.6	10817.1	10897.4	10973.4	11031.2	11107.2	11117.1	11066.4	10948.1	10717.2
10°	10179.3	10120.1	10199.0	10324.3	10476.4	10614.4	10767.9	10796.0	10805.9	10698.9	10418.6
12.5°	9509.0	9463.9	9542.8	9718.8	9970.9	10183.5	10428.5	10470.7	10558.0	10486.2	10142.7
15°	8909.1	8892.2	8988.0	9161.2	9451.3	9776.5	10130.0	10207.4	10355.3	10331.3	9927.2
17.5°	8391.0	8386.7	8460.0	8641.6	8962.7	9373.8	9832.9	9963.8	10183.5	10211.7	9749.8
20°	8005.1	7996.7	8047.4	8181.2	8512.1	8978.1	9511.8	9692.1	10008.9	10107.5	9566.7
22.5°	7798.1	7796.7	7798.1	7861.5	8131.9	8565.6	9199.2	9418.9	9838.5	10024.4	9364.0
25°	7762.9	7758.7	7727.7	7720.7	7874.2	8220.6	8889.4	9131.6	9676.6	9966.6	9171.1
27.5°	7854.5	7860.1	7819.3	7753.1	7784.1	7993.9	8620.5	8879.6	9547.0	9955.4	9037.3
30°	8044.6	8041.7	8006.5	7937.5	7877.0	7909.4	8429.0	8688.1	9459.7	10004.7	8945.8
32.5°	8254.4	8269.9	8262.8	8224.8	8134.7	8005.1	8371.2	8624.7	9434.4	10122.9	8906.3
35°	8506.4	8523.3	8574.0	8603.6	8498.0	8289.6	8495.2	8714.8	9507.6	10345.4	8969.7
37.5°	8745.8	8789.5	8931.7	9057.0	8966.9	8734.5	8824.7	8981.0	9734.3	10696.0	9140.1
40°	9021.8	9059.8	9292.2	9558.3	9544.2	9303.4	9355.5	9459.7	10134.2	11198.7	9448.5
42.5°	9293.6	9369.6	9706.1	10083.5	10191.9	9979.3	10062.4	10117.3	10697.5	11864.8	9986.4
45°	9655.4	9737.1	10204.6	10659.4	10912.9	10793.2	10925.6	10946.7	11405.7	12771.6	10767.9
47.5°	10203.2	10296.1	10841.1	11318.4	11705.7	11718.3	11936.6	11928.1	12290.0	13809.4	11752.1
50°	11056.5	11190.3	11636.7	12083.0	12553.3	12815.3	13106.7	13065.9	13350.3	14914.8	12885.7
52.5°	12174.6	12236.5	12567.4	12896.9	13481.3	14068.5	14486.7	14450.1	14552.9	16051.1	14172.7
55°	13333.4	13379.9	13516.5	13696.7	14482.5	15440.0	16324.3	16266.5	16006.0	17231.1	15444.2
57.5°	14375.5	14469.8	14564.1	14638.8	15490.7	16873.4	18204.1	18208.3	17583.1	18504.0	16758.0
60°	14537.4	14620.5	15244.3	15832.9	17215.6	18785.7	20216.3	20174.1	19215.1	19885.4	18222.4
62.5°	12850.5	13037.7	14079.7	15645.6	18877.2	22283.4	22783.3	22731.2	21166.8	21587.8	19927.6
65°	9209.1	9421.7	10679.1	13032.1	18071.8	26137.4	27416.0	26714.8	23828.1	23681.7	21924.4
67.5°	5312.8	5363.5	5908.5	7798.1	13760.1	26338.8	34483.3	33501.9	27960.9	26057.2	22901.6
70°	3928.6	3927.2	4056.8	4798.9	7446.1	21496.3	37844.5	38724.6	32312.0	26838.7	21520.2
71°	3552.7	3556.9	3701.9	4368.0	5897.2	17992.9	37130.6	39056.9	33458.2	26452.9	20520.5
72.5°	3038.7	3052.8	3254.2	3917.4	4960.8	12408.3	34055.3	37063.0	34001.8	25501.0	18956.1
75°	2305.1	2337.5	2616.3	3302.0	4534.1	6292.9	24994.0	29595.8	30205.5	22501.7	14085.4
77.5°	1644.7	1681.3	1996.7	2776.8	4310.2	4742.5	16738.3	21587.8	22228.5	14420.5	6353.4
80°	1039.2	1082.8	1320.8	2209.3	4049.7	4503.2	10518.6	14510.6	12121.1	4614.4	1616.5
82.5°	609.7	643.5	819.5	1443.3	3307.7	4337.0	6188.7	8043.2	4717.2	1394.0	735.0
85°	353.4	368.9	511.1	919.5	2402.2	4093.4	4546.8	4496.1	2047.4	681.5	347.8
87.5°	164.7	183.1	302.7	480.2	1333.5	2966.9	3593.5	3104.9	1272.9	319.6	163.3
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°	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2	11200.2
2.5°	11103.0	11079.1	10979.1	10890.4	10797.4	10676.3	10542.6	10525.7	10444.0	10459.5	10431.3
5°	10883.3	10822.8	10582.0	10363.7	10106.0	9875.1	9624.5	9509.0	9342.8	9331.6	9289.3
7.5°	10569.3	10456.7	10083.5	9669.5	9255.5	8861.3	8471.2	8214.9	7953.0	7841.8	7831.9
10°	10215.9	10024.4	9475.2	8862.7	8265.6	7689.7	7132.1	6719.5	6347.8	6171.8	6164.7
12.5°	9880.7	9597.7	8844.4	8010.8	7194.1	6447.8	5683.2	5141.0	4674.9	4518.6	4452.5
15°	9596.3	9197.8	8230.4	7164.5	6173.2	5136.8	4266.6	3696.3	3265.4	3116.2	3088.0
17.5°	9320.3	8807.8	7601.0	6309.8	5111.5	3972.3	3100.7	2676.8	2447.3	2386.8	2385.3
20°	9045.7	8406.4	6943.4	5435.3	4084.9	2971.1	2383.9	2193.8	2116.4	2109.4	2098.1
22.5°	8734.5	7981.2	6252.0	4558.1	3188.0	2336.1	2026.3	1950.2	1940.4	1965.7	1965.7
25°	8443.1	7558.8	5550.8	3699.1	2479.7	1948.8	1809.4	1793.9	1820.7	1865.8	1870.0
27.5°	8171.3	7151.8	4866.4	2935.9	1986.9	1716.5	1658.8	1677.1	1724.9	1777.0	1778.4
30°	7947.4	6767.4	4201.8	2313.5	1678.5	1543.3	1533.4	1570.0	1622.1	1663.0	1672.8
32.5°	7774.2	6439.3	3559.7	1860.1	1477.1	1413.7	1422.2	1453.2	1485.6	1508.1	1523.6
35°	7693.9	6157.7	2966.9	1568.6	1349.0	1313.8	1325.0	1341.9	1356.0	1372.9	1385.6
37.5°	7708.0	5939.4	2437.4	1387.0	1263.1	1244.8	1244.8	1244.8	1244.8	1253.2	1254.6
40°	7839.0	5814.1	2006.6	1271.5	1205.3	1185.6	1170.1	1156.1	1144.8	1150.4	1147.6
42.5°	8174.1	5802.8	1691.1	1198.3	1158.9	1126.5	1095.5	1075.8	1061.7	1067.4	1070.2
45°	8743.0	5943.7	1478.5	1146.2	1115.2	1065.9	1026.5	1005.4	995.5	1013.8	1016.7
47.5°	9479.4	6250.6	1349.0	1108.2	1074.4	1009.6	967.4	947.7	950.5	977.2	984.3
50°	10428.5	6749.1	1287.0	1084.2	1046.2	961.7	918.1	901.2	909.6	947.7	956.1
52.5°	11470.5	7467.2	1294.1	1077.2	1027.9	926.5	880.1	860.4	874.4	909.6	916.7
55°	12673.0	8330.4	1410.9	1087.1	1001.2	904.0	849.1	815.3	826.6	859.0	864.6
57.5°	14009.3	9318.9	1646.1	1084.2	967.4	882.9	816.7	766.0	774.5	794.2	799.8
60°	15400.6	10513.0	2010.8	1092.7	951.9	857.5	773.1	709.7	706.9	723.8	726.6
62.5°	17070.6	11894.4	2427.6	1098.3	961.7	825.2	715.3	653.4	644.9	649.1	652.0
65°	18791.3	12894.1	2271.3	1075.8	992.7	798.4	664.6	598.4	583.0	580.1	581.6
67.5°	18844.8	11822.5	1592.6	1030.7	1005.4	784.3	626.6	552.0	526.6	516.8	515.4
70°	16900.2	9604.8	1240.5	982.9	954.7	761.8	591.4	514.0	475.9	460.5	459.0
71°	15951.1	8841.6	1175.8	958.9	916.7	739.3	575.9	497.1	457.6	440.7	437.9
72.5°	14462.8	7926.3	1096.9	920.9	843.5	681.5	546.3	473.1	432.3	412.6	408.4
75°	10379.2	5183.3	942.0	820.9	698.4	543.5	478.8	425.3	390.0	366.1	363.3
77.5°	3999.0	2062.9	712.5	682.9	535.1	425.3	394.3	367.5	342.2	318.2	316.8
80°	1236.3	922.3	519.6	514.0	387.2	316.8	307.0	299.9	290.1	264.7	259.1
82.5°	660.4	529.5	357.7	332.3	253.5	211.2	222.5	225.3	226.7	200.0	197.1
85°	315.4	280.2	201.4	188.7	147.9	118.3	136.6	147.9	149.3	122.5	114.1
87.5°	150.7	146.4	94.3	71.8	54.9	39.4	47.9	59.1	64.8	46.5	40.8
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)