

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: P319721

Luminaire Tested: **GAN-SA7B-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319721
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-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 40423 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

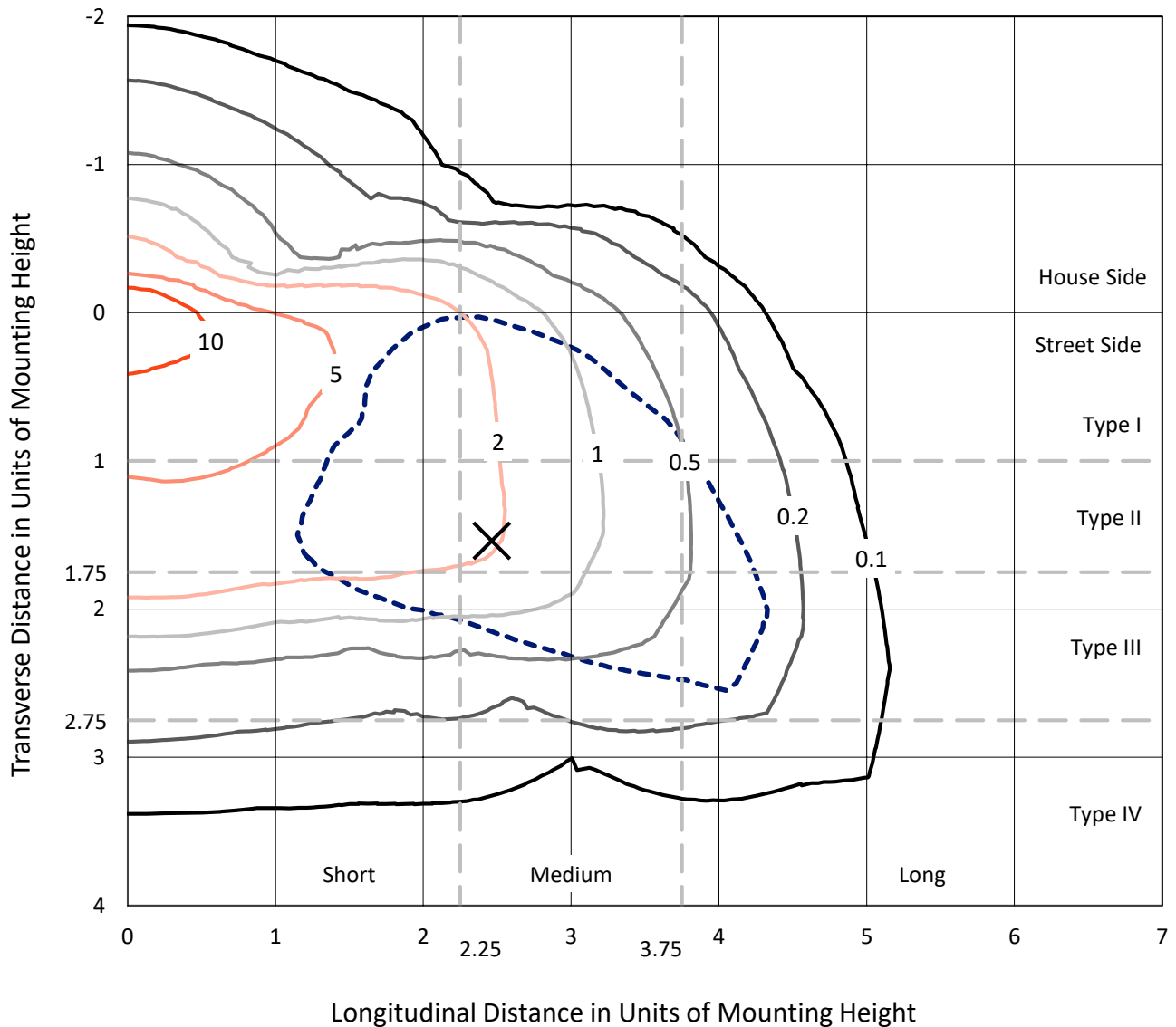
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

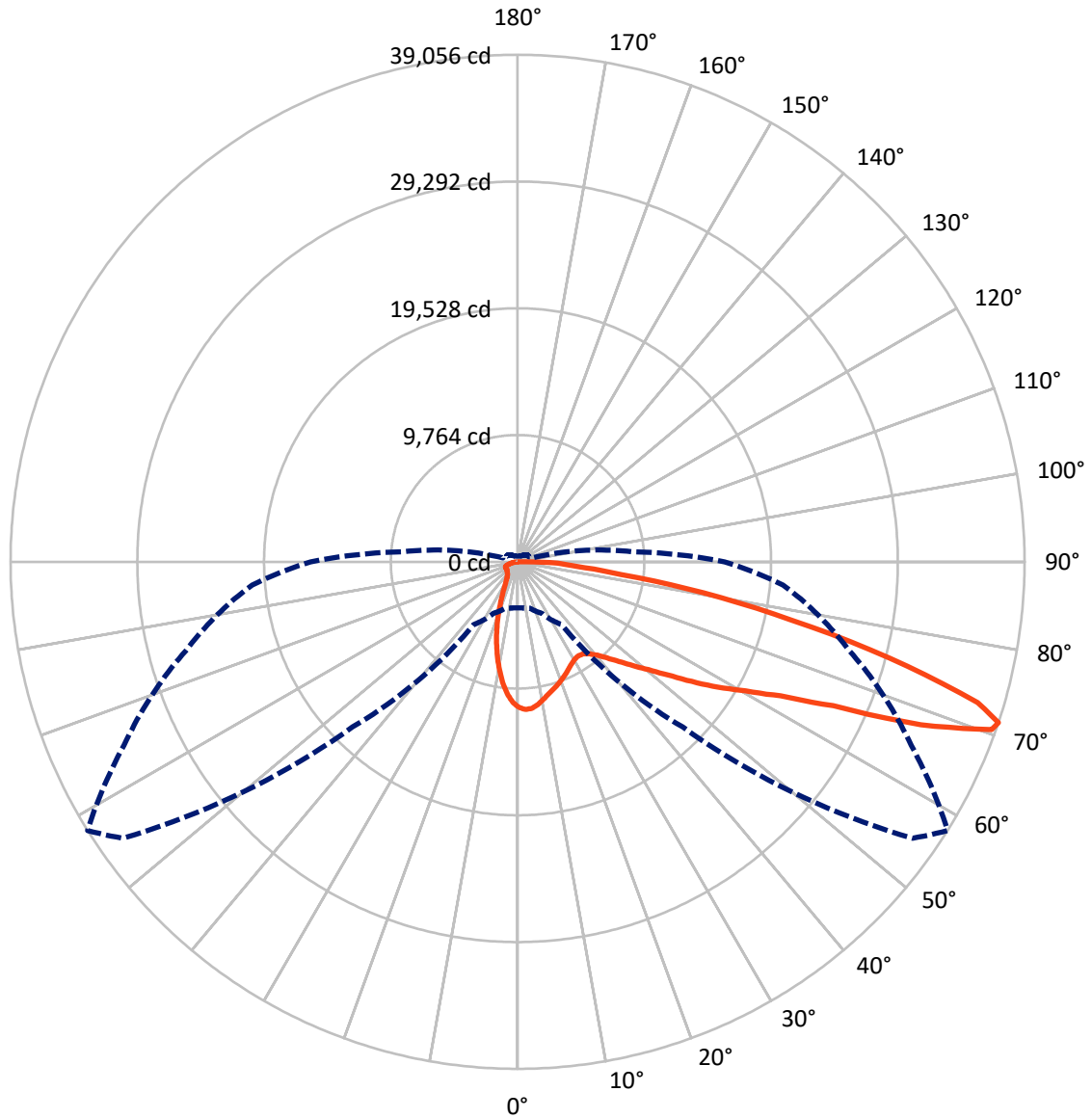
✕ Max cd
 - - - 1/2 Max cd



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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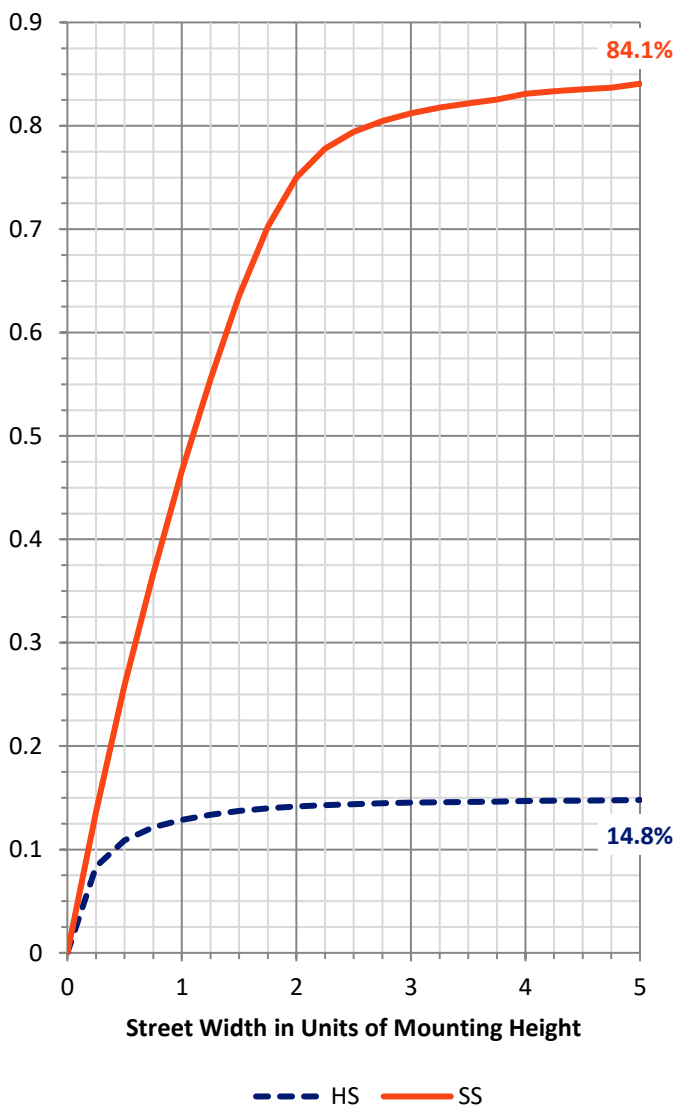
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6043.5	0.0	6043.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	34379.5	0.0	34379.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	40423.0	0.0	40423.0
	% 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°	2730.5	6.8
30°-40°	3478.1	8.6
40°-50°	4932.2	12.2
50°-60°	7632.7	18.9
60°-70°	10390.9	25.7
70°-80°	6931.9	17.1
80°-90°	1211.9	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°	40423.0	100.0
0°-180°	40423.0	100.0

Coefficient of Utilization

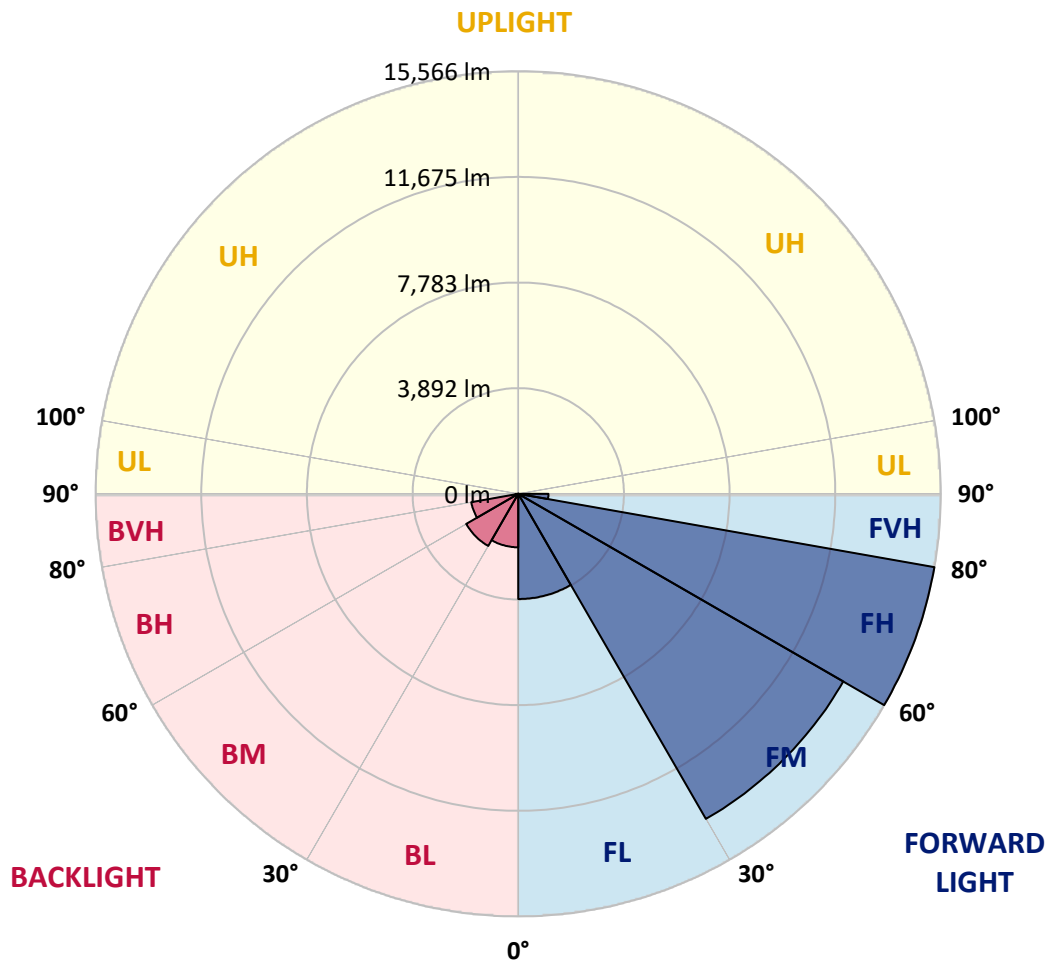


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3875.2	9.6			
FM (30°-60°)	13826.6	34.2			
FH (60°-80°)	15566.4	38.5			G5
FVH (80°-90°)	1111.3	2.7			G5
BL (0°-30°)	1970.0	4.9	B3/2500		
BM (30°-60°)	2216.3	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°	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9
2.5°	11497.0	11481.5	11487.1	11475.9	11449.1	11422.4	11382.9	11390.0	11335.0	11253.4	11152.0
5°	11280.1	11274.5	11316.7	11340.7	11360.4	11344.9	11333.6	11347.7	11267.5	11154.8	10978.8
7.5°	10825.3	10763.4	10816.9	10897.1	10973.2	11030.9	11106.9	11116.8	11066.1	10947.8	10716.9
10°	10179.0	10119.9	10198.7	10324.0	10476.1	10614.1	10767.6	10795.8	10805.6	10698.6	10418.4
12.5°	9508.8	9463.7	9542.6	9718.6	9970.6	10183.2	10428.2	10470.5	10557.8	10486.0	10142.4
15°	8908.9	8892.0	8987.8	9161.0	9451.0	9776.3	10129.7	10207.2	10355.0	10331.1	9927.0
17.5°	8390.8	8386.5	8459.7	8641.4	8962.4	9373.6	9832.6	9963.6	10183.2	10211.4	9749.6
20°	8004.9	7996.5	8047.2	8180.9	8511.8	8977.9	9511.6	9691.8	10008.6	10107.2	9566.5
22.5°	7798.0	7796.5	7798.0	7861.3	8131.7	8565.4	9199.0	9418.7	9838.3	10024.1	9363.7
25°	7762.7	7758.5	7727.5	7720.5	7874.0	8220.4	8889.2	9131.4	9676.3	9966.4	9170.8
27.5°	7854.3	7859.9	7819.1	7752.9	7783.9	7993.7	8620.3	8879.4	9546.8	9955.1	9037.1
30°	8044.4	8041.5	8006.3	7937.4	7876.8	7909.2	8428.8	8687.9	9459.5	10004.4	8945.5
32.5°	8254.2	8269.7	8262.6	8224.6	8134.5	8004.9	8371.0	8624.5	9434.1	10122.7	8906.1
35°	8506.2	8523.1	8573.8	8603.4	8497.8	8289.4	8495.0	8714.6	9507.4	10345.2	8969.5
37.5°	8745.6	8789.2	8931.5	9056.8	8966.7	8734.3	8824.4	8980.7	9734.1	10695.8	9139.9
40°	9021.6	9059.6	9291.9	9558.1	9544.0	9303.2	9355.3	9459.5	10134.0	11198.5	9448.2
42.5°	9293.3	9369.4	9705.9	10083.3	10191.7	9979.1	10062.1	10117.1	10697.2	11864.5	9986.1
45°	9655.2	9736.9	10204.4	10659.2	10912.6	10792.9	10925.3	10946.4	11405.5	12771.3	10767.6
47.5°	10203.0	10295.9	10840.8	11318.2	11705.4	11718.0	11936.3	11927.9	12289.7	13809.0	11751.8
50°	11056.2	11190.0	11636.4	12082.7	12553.0	12814.9	13106.4	13065.6	13350.0	14914.4	12885.3
52.5°	12174.3	12236.2	12567.1	12896.6	13481.0	14068.1	14486.3	14449.7	14552.5	16050.7	14172.3
55°	13333.1	13379.6	13516.2	13696.4	14482.1	15439.6	16323.9	16266.1	16005.7	17230.7	15443.8
57.5°	14375.1	14469.4	14563.8	14638.4	15490.3	16873.0	18203.7	18207.9	17582.7	18503.6	16757.6
60°	14537.0	14620.1	15243.9	15832.5	17215.2	18785.2	20215.8	20173.6	19214.7	19884.9	18222.0
62.5°	12850.1	13037.4	14079.4	15645.2	18876.7	22282.9	22782.7	22730.6	21166.3	21587.3	19927.2
65°	9208.8	9421.5	10678.9	13031.8	18071.3	26136.8	27415.3	26714.1	23827.5	23681.1	21923.8
67.5°	5312.7	5363.4	5908.3	7798.0	13759.8	26338.1	34482.5	33501.1	27960.3	26056.5	22901.0
70°	3928.5	3927.1	4056.7	4798.7	7445.9	21495.8	37843.6	38723.6	32311.2	26838.0	21519.7
71°	3552.6	3556.8	3701.8	4367.9	5897.0	17992.5	37129.7	39055.9	33457.4	26452.2	20520.0
72.5°	3038.6	3052.7	3254.1	3917.3	4960.7	12408.0	34054.4	37062.1	34000.9	25500.3	18955.6
75°	2305.0	2337.4	2616.2	3301.9	4534.0	6292.7	24993.4	29595.0	30204.7	22501.1	14085.0
77.5°	1644.6	1681.2	1996.7	2776.7	4310.1	4742.4	16737.9	21587.3	22228.0	14420.2	6353.3
80°	1039.2	1082.8	1320.8	2209.3	4049.6	4503.0	10518.4	14510.3	12120.8	4614.3	1616.5
82.5°	609.7	643.5	819.5	1443.3	3307.6	4336.9	6188.5	8043.0	4717.1	1394.0	735.0
85°	353.4	368.9	511.1	919.5	2402.2	4093.3	4546.7	4496.0	2047.3	681.5	347.8
87.5°	164.7	183.1	302.7	480.2	1333.5	2966.8	3593.4	3104.8	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°	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9	11199.9
2.5°	11102.7	11078.8	10978.8	10890.1	10797.2	10676.1	10542.3	10525.4	10443.7	10459.2	10431.1
5°	10883.1	10822.5	10581.7	10363.5	10105.8	9874.9	9624.2	9508.8	9342.6	9331.4	9289.1
7.5°	10569.1	10456.4	10083.3	9669.3	9255.3	8861.1	8471.0	8214.7	7952.8	7841.6	7831.7
10°	10215.6	10024.1	9475.0	8862.5	8265.4	7689.5	7131.9	6719.4	6347.6	6171.6	6164.6
12.5°	9880.5	9597.5	8844.2	8010.6	7193.9	6447.6	5683.0	5140.9	4674.8	4518.5	4452.4
15°	9596.1	9197.6	8230.2	7164.3	6173.0	5136.7	4266.5	3696.2	3265.3	3116.1	3087.9
17.5°	9320.1	8807.5	7600.8	6309.6	5111.3	3972.2	3100.6	2676.8	2447.2	2386.7	2385.3
20°	9045.5	8406.2	6943.2	5435.2	4084.8	2971.1	2383.9	2193.8	2116.3	2109.3	2098.0
22.5°	8734.3	7981.0	6251.9	4558.0	3187.9	2336.0	2026.2	1950.2	1940.3	1965.7	1965.7
25°	8442.9	7558.6	5550.7	3699.0	2479.6	1948.8	1809.4	1793.9	1820.6	1865.7	1869.9
27.5°	8171.1	7151.6	4866.3	2935.8	1986.8	1716.5	1658.7	1677.0	1724.9	1777.0	1778.4
30°	7947.2	6767.2	4201.7	2313.5	1678.4	1543.3	1533.4	1570.0	1622.1	1662.9	1672.8
32.5°	7774.0	6439.2	3559.6	1860.1	1477.1	1413.7	1422.2	1453.1	1485.5	1508.1	1523.5
35°	7693.8	6157.5	2966.8	1568.6	1348.9	1313.7	1325.0	1341.9	1356.0	1372.9	1385.6
37.5°	7707.8	5939.3	2437.4	1387.0	1263.0	1244.7	1244.7	1244.7	1244.7	1253.2	1254.6
40°	7838.8	5814.0	2006.5	1271.5	1205.3	1185.6	1170.1	1156.0	1144.8	1150.4	1147.6
42.5°	8173.9	5802.7	1691.1	1198.3	1158.9	1126.5	1095.5	1075.8	1061.7	1067.3	1070.1
45°	8742.8	5943.5	1478.5	1146.2	1115.2	1065.9	1026.5	1005.4	995.5	1013.8	1016.6
47.5°	9479.2	6250.5	1348.9	1108.2	1074.4	1009.6	967.4	947.6	950.5	977.2	984.2
50°	10428.2	6748.9	1287.0	1084.2	1046.2	961.7	918.1	901.2	909.6	947.6	956.1
52.5°	11470.2	7467.1	1294.0	1077.2	1027.9	926.5	880.1	860.3	874.4	909.6	916.7
55°	12672.7	8330.2	1410.9	1087.0	1001.1	904.0	849.1	815.3	826.5	858.9	864.6
57.5°	14009.0	9318.7	1646.0	1084.2	967.4	882.9	816.7	766.0	774.4	794.2	799.8
60°	15400.2	10512.7	2010.7	1092.7	951.9	857.5	773.0	709.7	706.9	723.8	726.6
62.5°	17070.2	11894.1	2427.5	1098.3	961.7	825.1	715.3	653.3	644.9	649.1	651.9
65°	18790.8	12893.8	2271.2	1075.8	992.7	798.4	664.6	598.4	582.9	580.1	581.5
67.5°	18844.3	11822.2	1592.5	1030.7	1005.4	784.3	626.6	552.0	526.6	516.8	515.4
70°	16899.8	9604.5	1240.5	982.8	954.7	761.8	591.4	513.9	475.9	460.4	459.0
71°	15950.7	8841.3	1175.7	958.9	916.7	739.2	575.9	497.1	457.6	440.7	437.9
72.5°	14462.4	7926.1	1096.9	920.9	843.4	681.5	546.3	473.1	432.3	412.6	408.3
75°	10379.0	5183.1	942.0	820.9	698.4	543.5	478.7	425.2	390.0	366.1	363.3
77.5°	3998.9	2062.8	712.5	682.9	535.1	425.2	394.3	367.5	342.2	318.2	316.8
80°	1236.3	922.3	519.6	513.9	387.2	316.8	307.0	299.9	290.1	264.7	259.1
82.5°	660.4	529.4	357.7	332.3	253.5	211.2	222.5	225.3	226.7	199.9	197.1
85°	315.4	280.2	201.4	188.7	147.8	118.3	136.6	147.8	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)