

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: P383531

Luminaire Tested: **GAN-SA8B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383531
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-SA8B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 42668.6 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

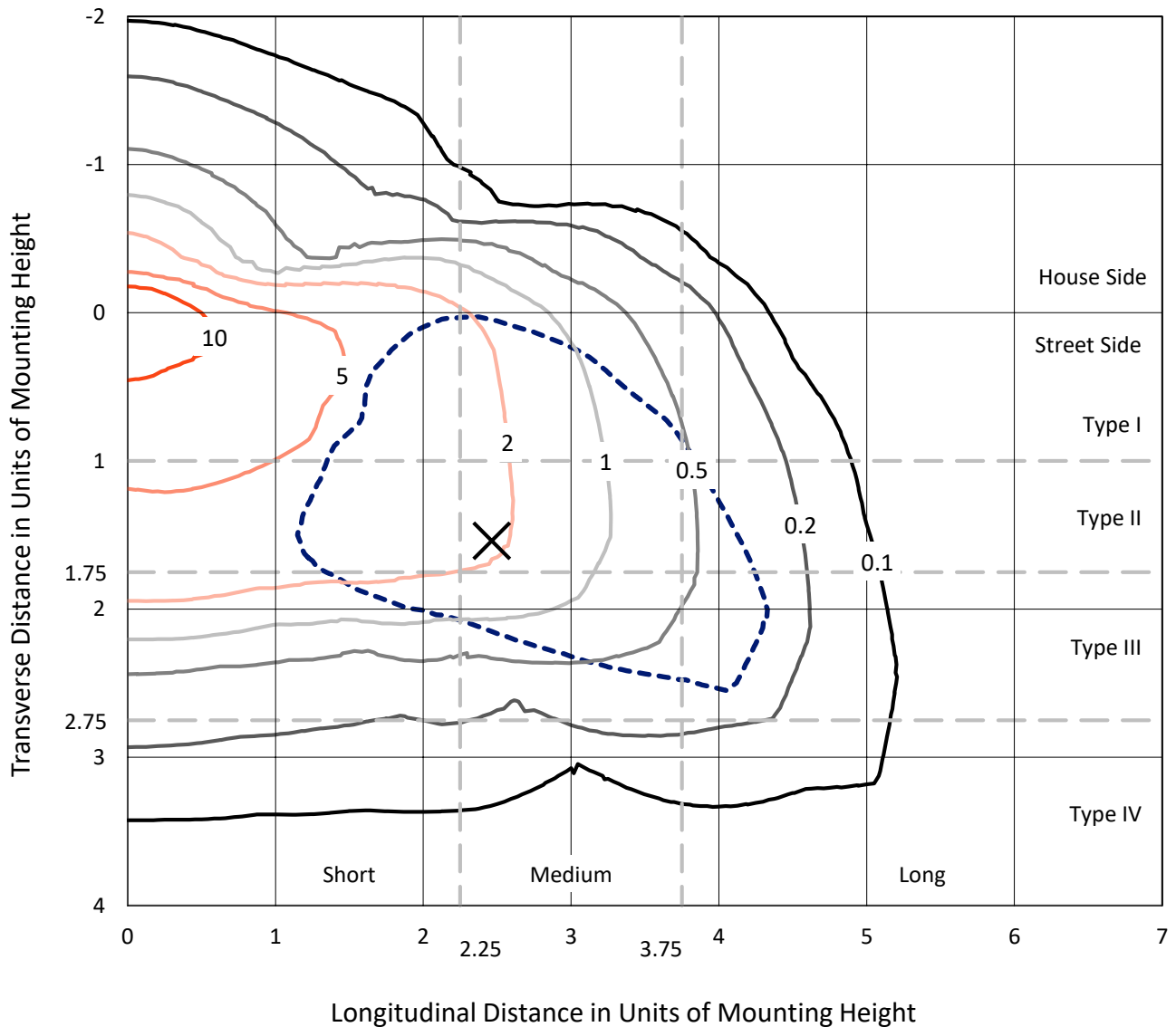
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

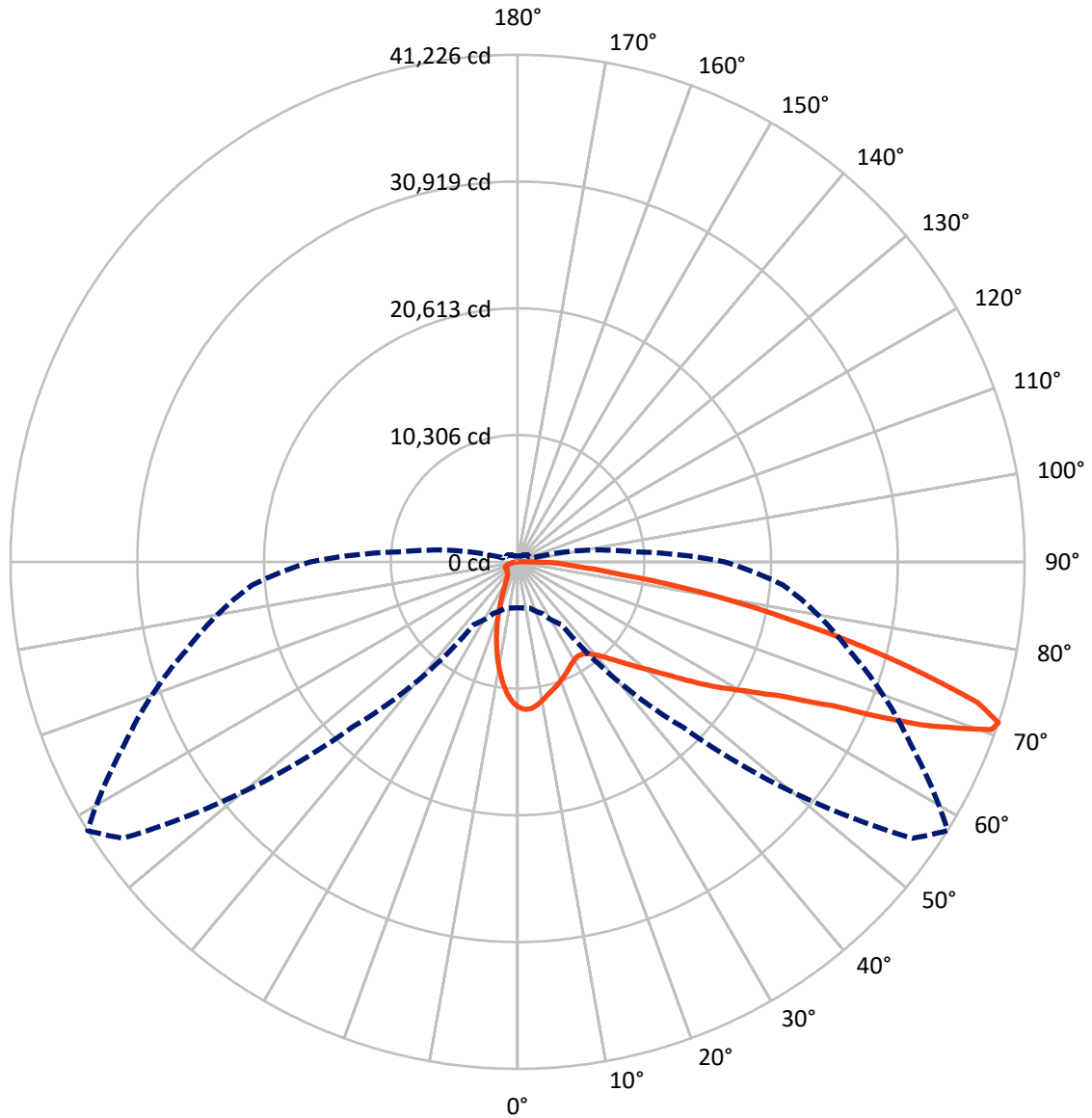
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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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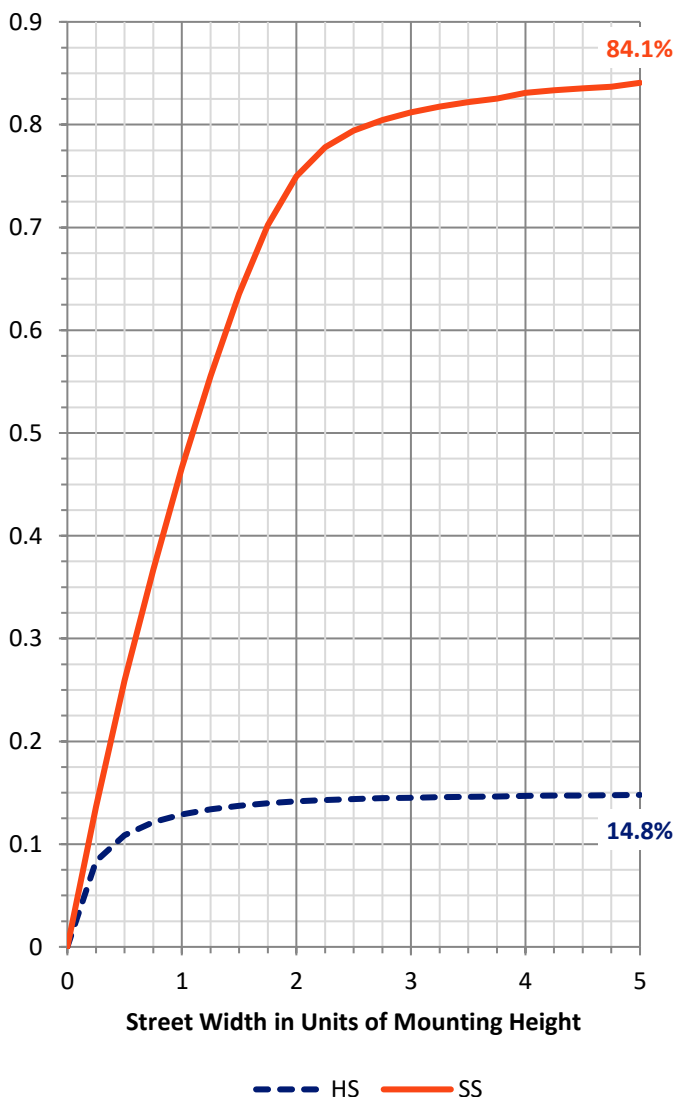
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6379.2	0.0	6379.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36289.4	0.0	36289.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	42668.6	0.0	42668.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.9	2.4
10°-20°	2267.8	5.3
20°-30°	2882.2	6.8
30°-40°	3671.3	8.6
40°-50°	5206.1	12.2
50°-60°	8056.7	18.9
60°-70°	10968.2	25.7
70°-80°	7317.0	17.1
80°-90°	1279.3	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°	42668.6	100.0
0°-180°	42668.6	100.0

Coefficient of Utilization

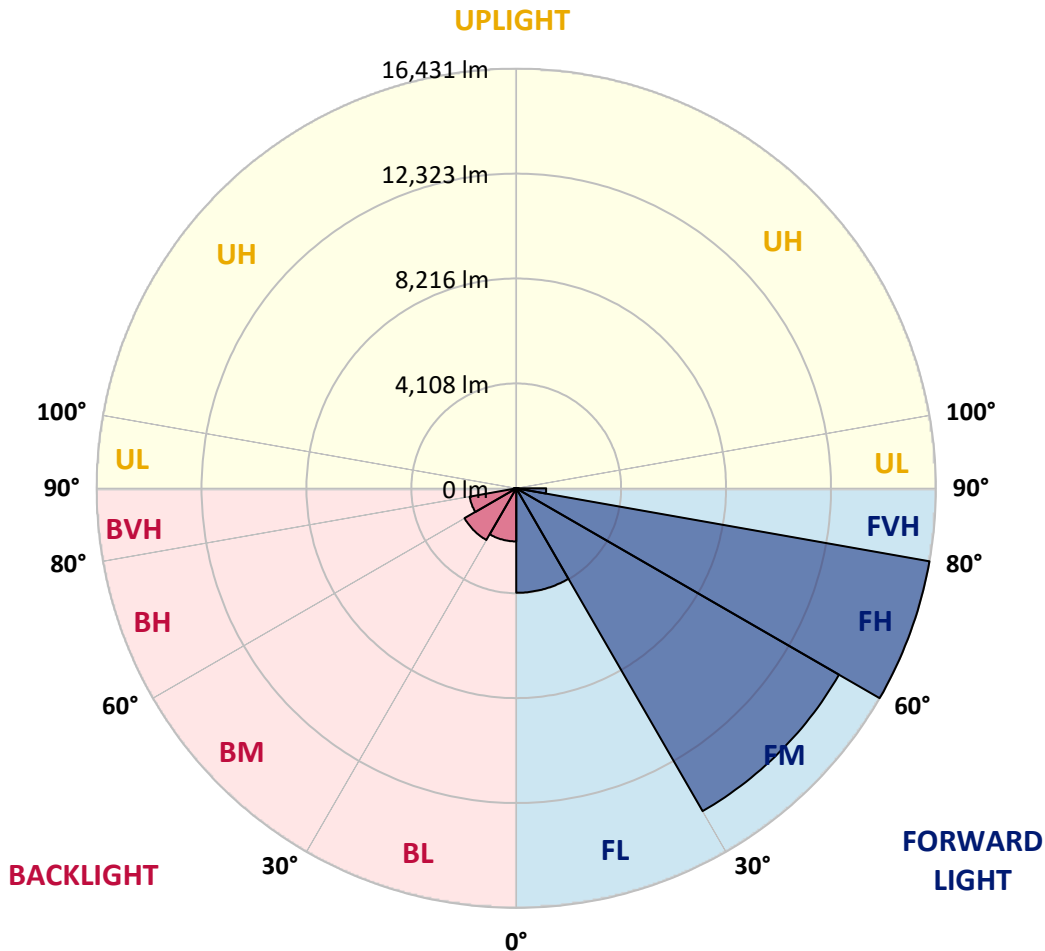


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.5	9.6			
FM (30°-60°)	14594.7	34.2			
FH (60°-80°)	16431.2	38.5			G5
FVH (80°-90°)	1173.0	2.7			G5
BL (0°-30°)	2079.4	4.9	B3/2500		
BM (30°-60°)	2339.5	5.5	B2/2500		
BH (60°-80°)	1854.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	106.3	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°	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1
2.5°	12135.6	12119.3	12125.3	12113.4	12085.2	12056.9	12015.3	12022.7	11964.7	11878.5	11771.5
5°	11906.8	11900.8	11945.4	11970.7	11991.5	11975.1	11963.2	11978.1	11893.4	11774.5	11588.7
7.5°	11426.7	11361.3	11417.8	11502.5	11582.8	11643.7	11724.0	11734.3	11680.9	11556.0	11312.2
10°	10744.5	10682.1	10765.3	10897.6	11058.1	11203.7	11365.7	11395.5	11405.9	11293.0	10997.2
12.5°	10037.0	9989.5	10072.6	10258.5	10524.5	10748.9	11007.5	11052.2	11144.3	11068.5	10705.8
15°	9403.9	9386.0	9487.1	9669.9	9976.0	10319.4	10692.5	10774.2	10930.3	10905.0	10478.4
17.5°	8856.9	8852.4	8929.7	9121.4	9460.3	9894.3	10378.8	10517.1	10748.9	10778.7	10291.2
20°	8449.6	8440.8	8494.2	8635.4	8984.7	9476.6	10039.9	10230.3	10564.7	10668.6	10098.0
22.5°	8231.2	8229.7	8231.2	8298.0	8583.4	9041.2	9710.0	9941.8	10384.8	10581.0	9883.9
25°	8194.0	8189.5	8156.8	8149.4	8311.5	8677.0	9383.0	9638.7	10213.9	10520.1	9680.3
27.5°	8290.6	8296.5	8253.4	8183.6	8216.2	8437.8	9099.2	9372.7	10077.1	10508.1	9539.1
30°	8491.2	8488.3	8451.1	8378.2	8314.3	8348.5	8897.0	9170.5	9985.0	10560.2	9442.4
32.5°	8712.7	8729.1	8721.6	8681.5	8586.4	8449.6	8836.1	9103.6	9958.2	10685.0	9400.9
35°	8978.7	8996.6	9050.1	9081.3	8969.9	8749.8	8966.9	9198.8	10035.6	10919.9	9467.8
37.5°	9231.5	9277.5	9427.6	9559.9	9464.8	9219.5	9314.6	9479.6	10274.8	11290.0	9647.6
40°	9522.7	9562.9	9808.1	10089.0	10074.1	9820.0	9875.0	9985.0	10697.0	11820.6	9973.1
42.5°	9809.6	9889.9	10245.1	10643.4	10757.9	10533.5	10621.1	10679.1	11291.5	12523.6	10540.8
45°	10191.6	10277.8	10771.2	11251.3	11518.9	11392.5	11532.2	11554.5	12039.0	13480.8	11365.7
47.5°	10769.7	10867.8	11443.0	11946.9	12355.7	12369.0	12599.4	12590.5	12972.5	14576.2	12404.7
50°	11670.4	11811.7	12282.8	12754.0	13250.4	13526.8	13834.5	13791.4	14091.6	15743.0	13601.2
52.5°	12850.6	12916.0	13265.2	13613.1	14229.9	14849.6	15291.1	15252.4	15360.9	16942.3	14959.6
55°	14073.8	14122.8	14267.0	14457.2	15286.6	16297.3	17230.7	17169.8	16894.8	18187.9	16301.8
57.5°	15173.7	15273.3	15372.9	15451.6	16350.8	17810.4	19214.9	19219.4	18559.5	19531.5	17688.5
60°	15344.6	15432.3	16090.7	16712.0	18171.5	19828.7	21338.9	21294.2	20282.1	20989.5	19234.2
62.5°	13564.0	13761.7	14861.5	16514.3	19925.3	23520.7	24048.4	23993.4	22342.1	22786.5	21034.2
65°	9720.4	9944.8	11272.1	13755.7	19075.2	27588.8	28938.3	28198.1	25151.2	24996.7	23141.8
67.5°	5607.8	5661.3	6236.5	8231.2	14524.1	27801.3	36398.1	35362.1	29513.6	27504.0	24173.2
70°	4146.8	4145.3	4282.0	5065.3	7859.6	22689.9	39945.9	40874.8	34106.2	28328.9	22715.1
71°	3749.9	3754.4	3907.5	4610.5	6224.6	18992.0	39192.4	41225.6	35316.1	27921.6	21659.9
72.5°	3207.4	3222.3	3434.8	4134.9	5236.2	13097.3	35946.3	39121.0	35889.7	26917.0	20008.6
75°	2433.1	2467.3	2761.6	3485.4	4785.9	6642.3	26381.9	31239.1	31882.7	23751.1	14867.5
77.5°	1736.0	1774.7	2107.5	2931.0	4549.6	5005.9	17667.7	22786.5	23462.8	15221.2	6706.2
80°	1096.9	1143.0	1394.2	2332.0	4274.6	4753.2	11102.7	15316.3	12794.1	4870.6	1706.3
82.5°	643.6	679.3	865.0	1523.5	3491.3	4577.8	6532.3	8489.8	4979.1	1471.5	775.9
85°	373.1	389.4	539.6	970.6	2535.7	4320.7	4799.2	4745.8	2161.1	719.3	367.1
87.5°	173.9	193.2	319.5	506.9	1407.6	3131.7	3793.1	3277.3	1343.7	337.4	172.4
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°	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1
2.5°	11719.5	11694.3	11588.7	11495.1	11397.0	11269.1	11128.0	11110.1	11023.9	11040.2	11010.5
5°	11487.7	11423.8	11169.5	10939.2	10667.2	10423.5	10158.9	10037.0	9861.6	9849.7	9805.1
7.5°	11156.2	11037.3	10643.4	10206.4	9769.5	9353.3	8941.6	8671.1	8394.6	8277.3	8266.8
10°	10783.1	10581.0	10001.4	9354.8	8724.6	8116.7	7528.1	7092.6	6700.2	6514.5	6507.0
12.5°	10429.4	10130.7	9335.5	8455.6	7593.5	6805.8	5998.7	5426.5	4934.5	4769.5	4699.7
15°	10129.2	9708.5	8687.4	7562.3	6516.0	5422.1	4503.5	3901.5	3446.7	3289.2	3259.5
17.5°	9837.9	9296.8	8023.0	6660.1	5395.2	4192.9	3272.8	2825.5	2583.2	2519.3	2517.8
20°	9548.0	8873.3	7329.0	5737.1	4311.8	3136.1	2516.3	2315.6	2233.9	2226.5	2214.6
22.5°	9219.5	8424.4	6599.2	4811.2	3365.0	2465.8	2138.8	2058.5	2048.1	2074.8	2074.8
25°	8911.8	7978.5	5859.0	3904.5	2617.4	2057.0	1909.9	1893.6	1921.8	1969.4	1973.9
27.5°	8625.0	7548.9	5136.6	3099.0	2097.2	1811.8	1750.8	1770.2	1820.7	1875.7	1877.2
30°	8388.7	7143.2	4435.1	2442.0	1771.7	1629.0	1618.6	1657.2	1712.2	1755.3	1765.7
32.5°	8205.9	6796.9	3757.4	1963.4	1559.1	1492.2	1501.2	1533.9	1568.1	1591.8	1608.2
35°	8121.1	6499.6	3131.7	1655.7	1423.9	1386.7	1398.6	1416.4	1431.3	1449.1	1462.5
37.5°	8136.0	6269.2	2572.7	1464.0	1333.2	1313.9	1313.9	1313.9	1313.9	1322.8	1324.3
40°	8274.3	6136.9	2118.0	1342.2	1272.3	1251.4	1235.1	1220.2	1208.4	1214.3	1211.3
42.5°	8628.0	6125.0	1785.0	1264.9	1223.2	1189.0	1156.3	1135.6	1120.7	1126.6	1129.6
45°	9228.5	6273.7	1560.6	1209.9	1177.2	1125.1	1083.5	1061.2	1050.8	1070.2	1073.1
47.5°	10005.8	6597.7	1423.9	1169.7	1134.1	1065.7	1021.1	1000.3	1003.3	1031.5	1039.0
50°	11007.5	7123.8	1358.5	1144.5	1104.3	1015.1	969.1	951.2	960.1	1000.3	1009.2
52.5°	12107.4	7881.8	1365.9	1137.0	1085.0	978.0	928.9	908.2	923.0	960.1	967.6
55°	13376.7	8793.0	1489.3	1147.4	1056.7	954.2	896.2	860.6	872.5	906.7	912.5
57.5°	14787.2	9836.4	1737.5	1144.5	1021.1	931.9	862.1	808.6	817.4	838.3	844.3
60°	16255.7	11096.8	2122.4	1153.3	1004.8	905.2	815.9	749.1	746.2	764.0	766.9
62.5°	18018.5	12554.8	2562.4	1159.3	1015.1	871.0	755.0	689.6	680.7	685.2	688.1
65°	19834.7	13610.1	2397.4	1135.6	1047.8	842.8	701.5	631.7	615.3	612.4	613.8
67.5°	19891.2	12479.0	1681.0	1088.0	1061.2	827.9	661.4	582.6	555.9	545.5	544.0
70°	17838.6	10138.0	1309.5	1037.5	1007.7	804.1	624.2	542.5	502.4	486.0	484.5
71°	16836.9	9332.5	1241.1	1012.1	967.6	780.3	607.9	524.6	483.0	465.2	462.2
72.5°	15265.8	8366.4	1157.8	972.1	890.3	719.3	576.7	499.4	456.3	435.5	431.0
75°	10955.6	5471.1	994.3	866.5	737.2	573.7	505.4	448.8	411.7	386.4	383.4
77.5°	4221.1	2177.4	752.0	720.8	564.8	448.8	416.1	387.9	361.2	335.9	334.4
80°	1305.0	973.6	548.4	542.5	408.8	334.4	324.0	316.5	306.2	279.5	273.5
82.5°	697.1	558.8	377.6	350.7	267.5	222.9	234.8	237.8	239.3	211.1	208.1
85°	332.9	295.8	212.6	199.2	156.0	124.8	144.2	156.0	157.5	129.3	120.4
87.5°	159.0	154.5	99.6	75.8	57.9	41.6	50.5	62.4	68.4	49.1	43.1
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)