

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: P319371

Luminaire Tested: **GAN-SA7C-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319371
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-SA7C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 49011 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

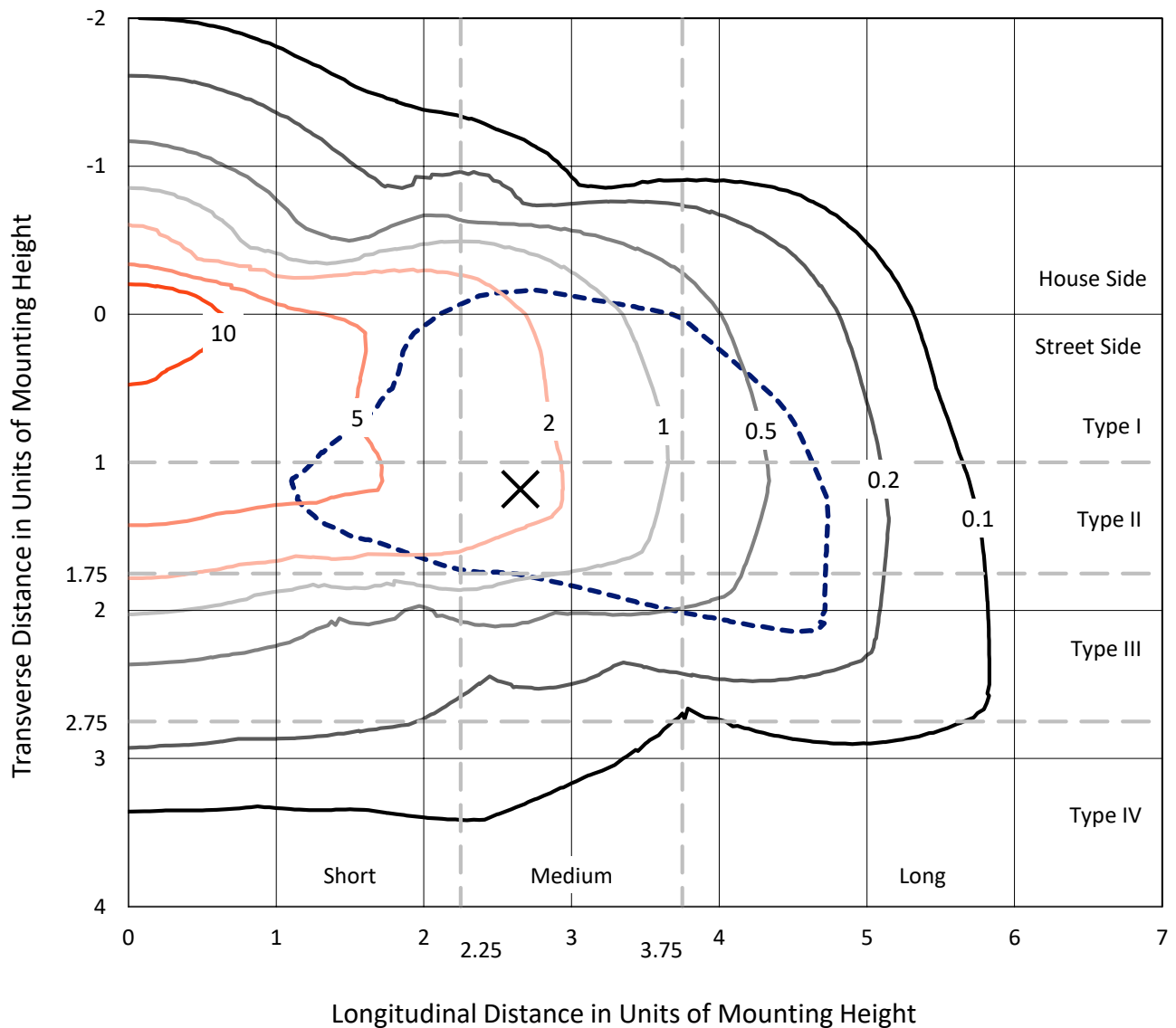
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

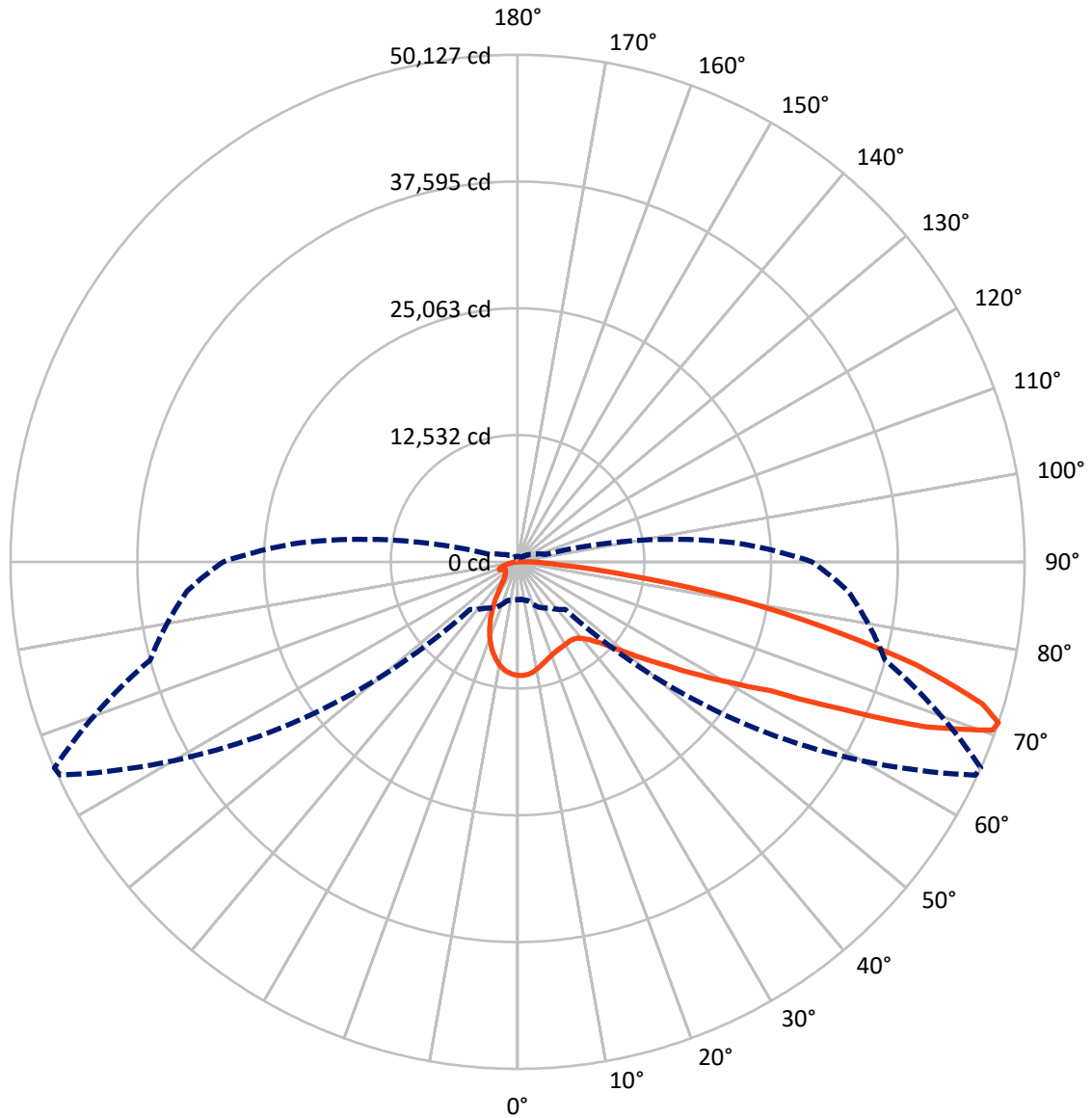
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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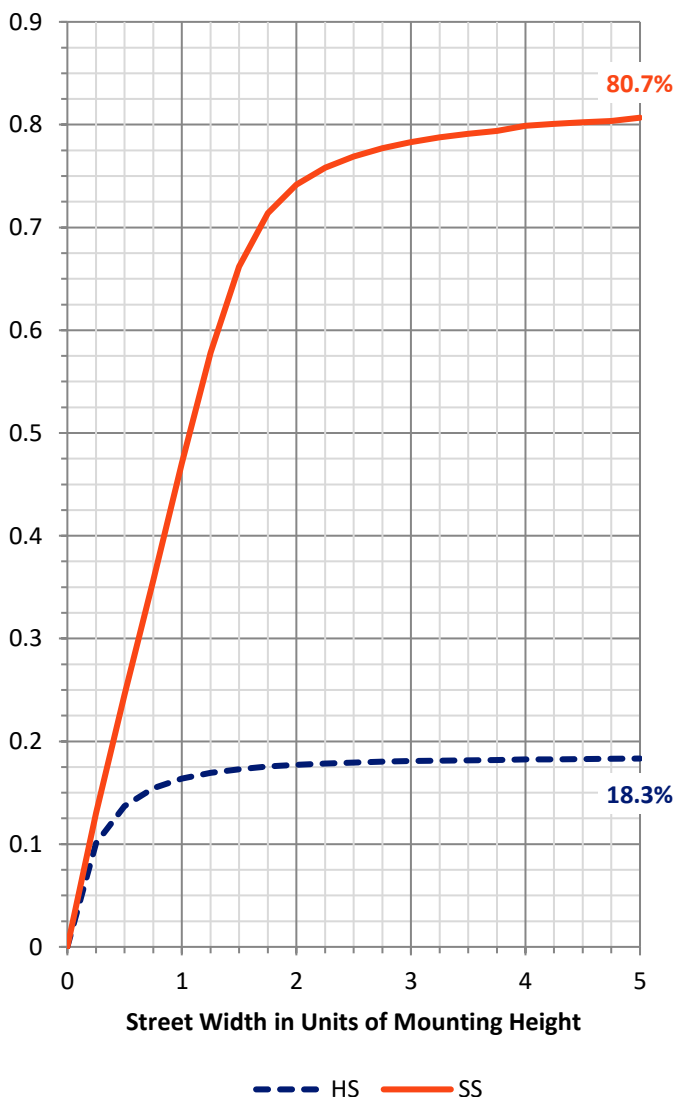
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9083.1	0.0	9083.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	39927.9	0.0	39927.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	49011.0	0.0	49011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.3	2.0
10°-20°	2370.3	4.8
20°-30°	3184.0	6.5
30°-40°	4188.4	8.5
40°-50°	6093.1	12.4
50°-60°	9518.0	19.4
60°-70°	11922.9	24.3
70°-80°	9094.5	18.6
80°-90°	1651.5	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°	49011.0	100.0
0°-180°	49011.0	100.0

Coefficient of Utilization

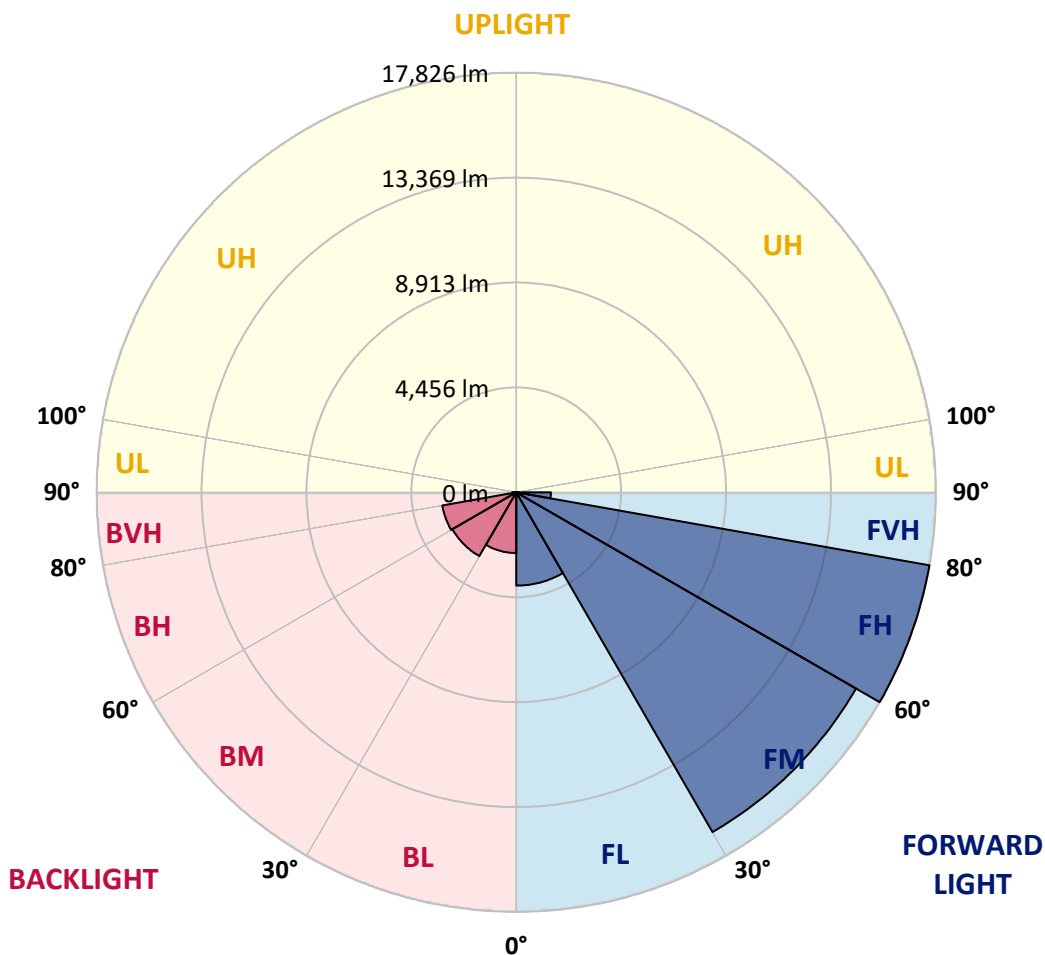


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3963.2	8.1			
FM (30°-60°)	16666.2	34.0			
FH (60°-80°)	17825.8	36.4			G5
FVH (80°-90°)	1472.7	3.0			G5
BL (0°-30°)	2579.4	5.3	B4/5000		
BM (30°-60°)	3133.4	6.4	B3/5000		
BH (60°-80°)	3191.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	178.8	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°	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5
2.5°	11019.3	11002.4	11053.2	11105.6	11125.9	11159.8	11210.5	11239.3	11237.6	11242.7	11225.8
5°	10288.3	10266.3	10367.9	10450.8	10609.8	10789.2	11007.5	11163.2	11166.6	11254.5	11278.2
7.5°	9596.2	9581.0	9697.8	9831.4	10015.9	10290.0	10643.7	10978.7	10999.0	11237.6	11320.5
10°	9041.2	9037.8	9151.2	9296.7	9511.6	9817.9	10224.0	10714.7	10745.2	11156.4	11327.3
12.5°	8608.0	8614.8	8712.9	8878.8	9105.5	9425.3	9865.3	10418.6	10467.7	11027.8	11288.4
15°	8288.2	8315.3	8394.8	8562.3	8785.7	9110.6	9562.4	10144.5	10218.9	10884.0	11266.4
17.5°	8105.4	8135.9	8191.7	8330.5	8540.3	8853.4	9281.5	9919.4	9987.1	10774.0	11268.1
20°	8051.3	8076.7	8108.8	8193.4	8371.1	8655.4	9059.8	9716.4	9789.1	10686.0	11285.0
22.5°	8157.9	8176.5	8179.9	8173.1	8281.4	8513.2	8899.1	9567.5	9645.3	10628.4	11296.8
25°	8386.3	8411.7	8393.1	8330.5	8295.0	8437.1	8816.1	9469.3	9547.2	10586.1	11273.2
27.5°	8729.8	8733.2	8718.0	8636.8	8469.3	8445.6	8790.8	9411.8	9486.2	10537.1	11224.1
30°	9196.9	9218.9	9191.8	9081.8	8807.7	8580.9	8821.2	9355.9	9423.6	10474.5	11144.6
32.5°	9743.4	9797.6	9795.9	9680.8	9288.3	8883.8	8946.4	9322.1	9374.6	10408.5	11048.1
35°	10310.3	10384.8	10523.5	10474.5	9988.8	9362.7	9186.7	9376.2	9411.8	10400.0	10980.4
37.5°	10899.2	10973.6	11259.6	11391.6	10823.0	10048.0	9565.8	9567.5	9584.4	10503.2	10975.3
40°	11515.1	11594.7	12024.5	12368.0	11904.3	10916.1	10176.6	9966.8	9948.2	10757.1	11075.2
42.5°	12378.1	12449.2	12965.3	13403.6	13104.1	12027.9	11021.0	10582.8	10543.8	11254.5	11395.0
45°	13469.6	13530.5	14078.8	14547.5	14393.5	13297.0	12082.0	11430.5	11423.8	12083.7	12043.1
47.5°	14767.5	14814.8	15307.3	15760.8	15816.6	14757.3	13415.4	12738.6	12628.6	13220.8	13046.5
50°	16119.5	16172.0	16507.0	16994.3	17408.9	16711.8	15131.3	14341.0	14193.8	14721.8	14468.0
52.5°	17014.7	17084.0	17375.1	17992.7	19199.2	18854.0	17160.2	16283.6	16060.3	16540.8	16346.3
55°	16615.3	16771.0	17216.0	18205.9	20630.8	22126.7	19662.9	18549.4	18297.3	18696.7	18581.6
57.5°	14799.6	15012.8	15620.3	17148.3	20832.2	25010.1	23446.5	21218.0	21040.3	20925.2	20977.7
60°	11481.3	11686.0	12439.1	14430.7	19429.4	27115.1	29140.7	24507.5	24250.3	23162.3	23209.6
62.5°	8125.7	8022.5	8538.6	9995.6	15787.8	27362.2	35619.9	28907.1	28061.1	25524.5	25316.4
65°	6196.7	6173.0	6404.8	6868.5	9562.4	24406.0	39479.7	36301.9	34980.3	28303.0	27812.3
67.5°	5091.7	5049.4	5277.8	5953.0	6157.8	15745.5	39564.4	44881.1	43583.2	31761.8	30699.1
70°	4186.4	4139.0	4352.2	5223.7	5690.7	7985.3	33298.3	49905.1	49835.8	36141.1	32878.6
71°	3753.2	3719.4	3974.9	4942.8	5590.9	6655.3	28749.8	49918.7	50126.8	37623.5	32750.0
72.5°	3056.0	3067.9	3338.6	4399.6	5516.4	5876.9	21130.0	47592.0	48031.9	39036.4	31580.8
75°	2030.6	2040.7	2396.1	3384.3	5348.9	5750.0	11613.3	39934.9	40743.8	38190.3	28817.5
77.5°	1363.9	1360.5	1602.5	2321.6	4660.2	5750.0	6809.2	29868.3	30756.7	30387.8	22216.3
80°	939.1	932.4	1103.3	1602.5	3528.2	5819.3	5264.3	20932.0	21201.1	16410.6	9029.4
82.5°	575.3	580.4	720.9	1132.1	2401.2	5237.2	4969.9	11413.6	11120.9	4602.7	2255.6
85°	330.0	328.3	460.3	766.5	1541.6	4419.9	4846.3	4912.3	4506.2	1385.9	815.6
87.5°	118.5	126.9	247.1	424.7	883.3	3078.0	4111.9	2555.2	2303.0	626.1	368.9
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°	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5
2.5°	11213.9	11224.1	11212.2	11144.6	11087.0	10994.0	10941.5	10868.7	10846.7	10836.6	10863.7
5°	11256.2	11259.6	11159.8	10982.1	10782.4	10547.2	10378.0	10169.9	10071.7	10029.4	10056.5
7.5°	11295.2	11279.9	11061.6	10721.5	10352.6	9943.1	9579.3	9246.0	9051.4	8971.8	8978.6
10°	11300.2	11235.9	10885.7	10359.4	9787.4	9186.7	8628.3	8113.9	7789.0	7577.5	7641.8
12.5°	11247.8	11139.5	10626.8	9890.7	9097.0	8278.0	7523.3	6751.7	6288.1	6073.2	6079.9
15°	11207.2	11010.9	10308.6	9339.0	8273.0	7188.3	6157.8	5250.8	4756.7	4536.7	4433.5
17.5°	11173.3	10872.1	9939.7	8718.0	7300.0	5924.2	4685.6	3876.7	3606.0	3541.7	3514.6
20°	11125.9	10724.9	9528.5	7998.8	6191.6	4509.6	3421.5	3022.2	3023.9	3098.3	3108.5
22.5°	11059.9	10557.4	9090.3	7191.7	5002.0	3284.5	2682.1	2567.0	2683.8	2825.9	2851.3
25°	10961.8	10359.4	8602.9	6299.9	3814.1	2524.7	2291.2	2286.1	2428.2	2577.2	2599.2
27.5°	10823.0	10100.5	8061.4	5342.1	2810.7	2145.7	2052.6	2088.1	2193.0	2301.3	2309.8
30°	10636.9	9799.3	7464.1	4331.9	2203.2	1910.4	1900.3	1932.4	1996.7	2072.9	2079.7
32.5°	10432.2	9493.0	6826.2	3353.9	1886.8	1783.5	1793.7	1808.9	1839.4	1869.8	1876.6
35°	10246.0	9180.0	6173.0	2548.4	1736.2	1700.6	1693.9	1690.5	1693.9	1683.7	1685.4
37.5°	10125.9	8921.1	5492.7	2028.9	1649.9	1627.9	1607.6	1582.2	1553.4	1536.5	1539.9
40°	10081.9	8728.2	4804.0	1753.1	1578.8	1563.6	1524.6	1470.5	1436.6	1426.5	1426.5
42.5°	10200.3	8628.3	4139.0	1614.3	1519.6	1494.2	1429.9	1367.3	1341.9	1340.2	1338.5
45°	10562.5	8668.9	3506.2	1538.2	1465.4	1416.3	1331.7	1279.3	1262.4	1265.7	1264.0
47.5°	11212.2	8924.4	2964.7	1487.4	1411.3	1347.0	1252.2	1209.9	1189.6	1189.6	1191.3
50°	12317.2	9521.8	2533.2	1445.1	1365.6	1282.7	1194.7	1142.2	1115.1	1113.4	1113.4
52.5°	13926.5	10591.2	2264.1	1409.6	1314.8	1225.1	1137.1	1071.1	1039.0	1032.2	1028.8
55°	15943.5	12124.3	2189.7	1385.9	1247.1	1162.5	1067.8	1001.8	966.2	951.0	949.3
57.5°	18199.2	13989.1	2336.9	1357.1	1177.7	1088.1	991.6	929.0	891.8	873.2	871.5
60°	20481.9	16024.7	2937.6	1316.5	1120.2	1006.8	913.8	856.2	819.0	798.7	795.3
62.5°	22768.0	18170.4	4164.4	1313.1	1079.6	929.0	834.2	785.2	749.6	727.6	722.6
65°	25346.8	20519.1	5558.7	1402.8	1066.1	857.9	753.0	714.1	683.6	663.3	661.6
67.5°	28308.1	23170.7	5425.1	1587.2	1111.7	793.6	676.9	646.4	624.4	607.5	605.8
70°	29697.4	22756.1	3372.5	1717.5	1176.1	731.0	604.1	582.1	565.2	553.3	548.3
71°	29115.3	21607.2	2827.6	1702.3	1169.3	703.9	575.3	558.4	541.5	531.3	526.3
72.5°	27528.0	19705.2	2358.9	1583.9	1093.1	654.9	538.1	521.2	506.0	494.1	490.7
75°	24702.1	17598.4	1888.4	1265.7	871.5	553.3	472.1	453.5	441.7	434.9	428.1
77.5°	18158.6	12559.2	1460.3	1000.1	641.3	451.8	402.7	389.2	377.4	367.2	362.1
80°	6956.5	4865.0	983.1	746.2	470.4	357.0	324.9	318.1	306.3	299.5	299.5
82.5°	1873.2	1453.6	524.6	451.8	314.7	260.6	248.7	245.4	235.2	221.7	223.4
85°	758.1	641.3	294.4	248.7	192.9	154.0	167.5	169.2	157.4	140.4	142.1
87.5°	333.4	272.4	164.1	110.0	84.6	59.2	76.1	76.1	69.4	57.5	52.5
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)