

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: P324792

Luminaire Tested: **GAN-SA8A-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30575 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

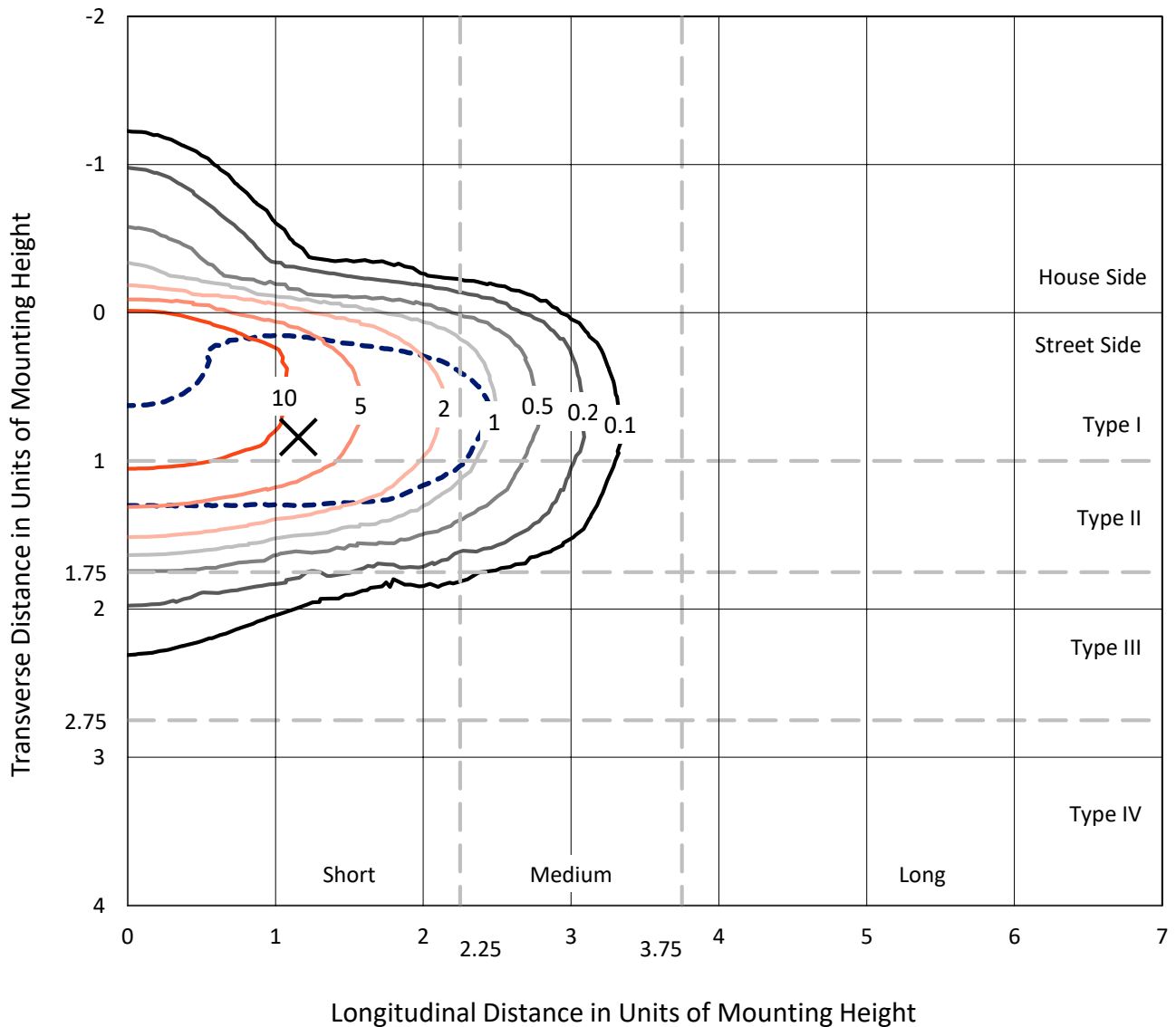
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

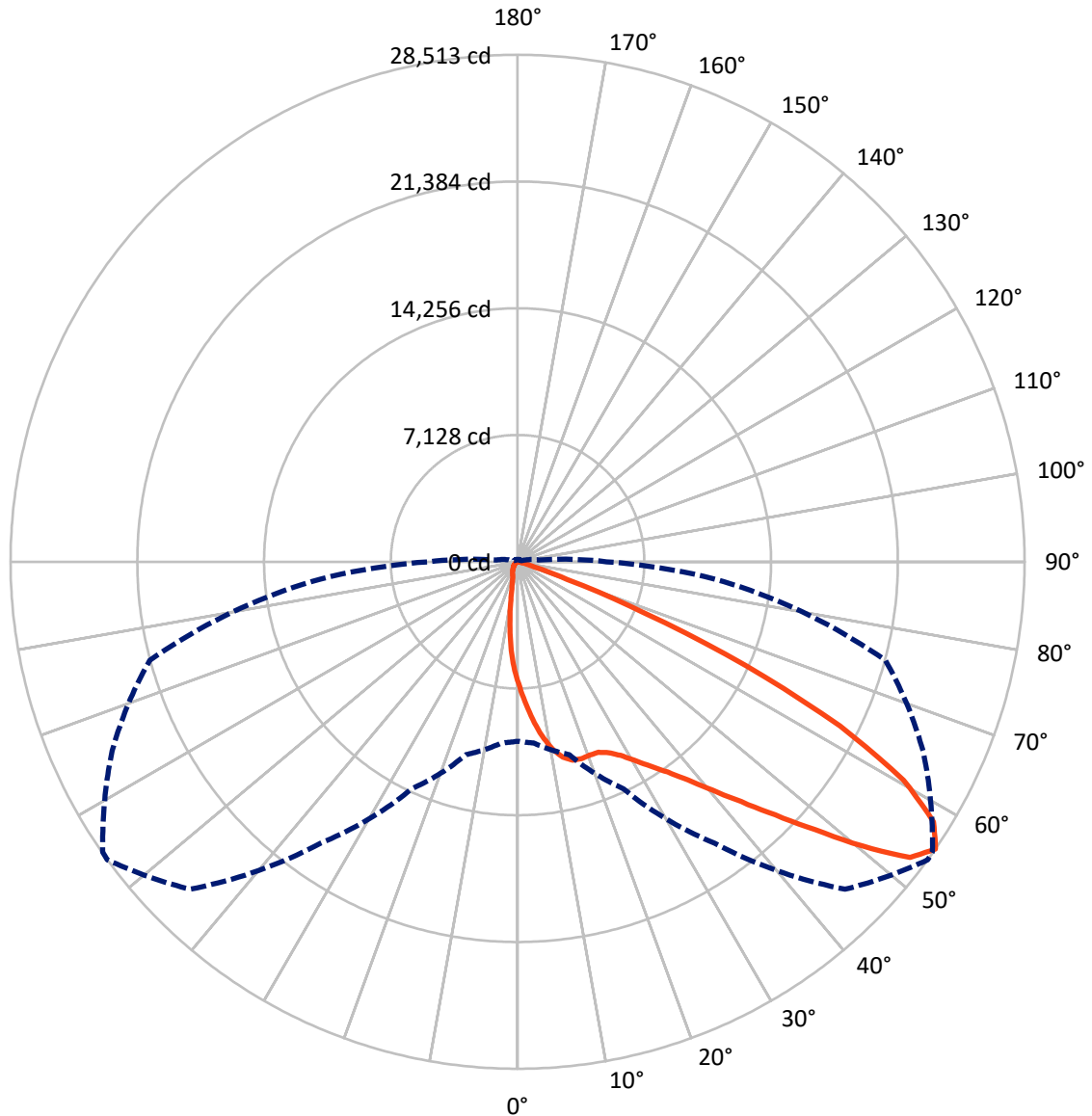
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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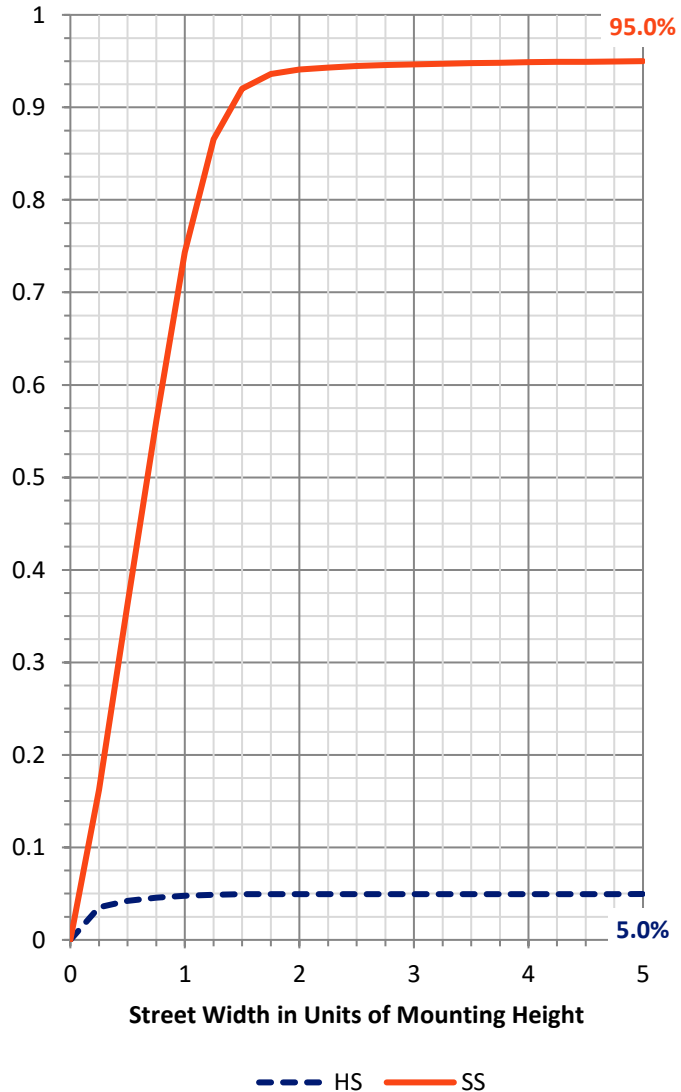
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1525.5	0.0	1525.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	29049.5	0.0	29049.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	30575.0	0.0	30575.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.6	2.1
10°-20°	1729.4	5.7
20°-30°	2952.6	9.7
30°-40°	4738.5	15.5
40°-50°	7572.2	24.8
50°-60°	8113.8	26.5
60°-70°	4165.8	13.6
70°-80°	631.0	2.1
80°-90°	41.1	0.1
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°	30575.0	100.0
0°-180°	30575.0	100.0

**Coefficient of Utilization**



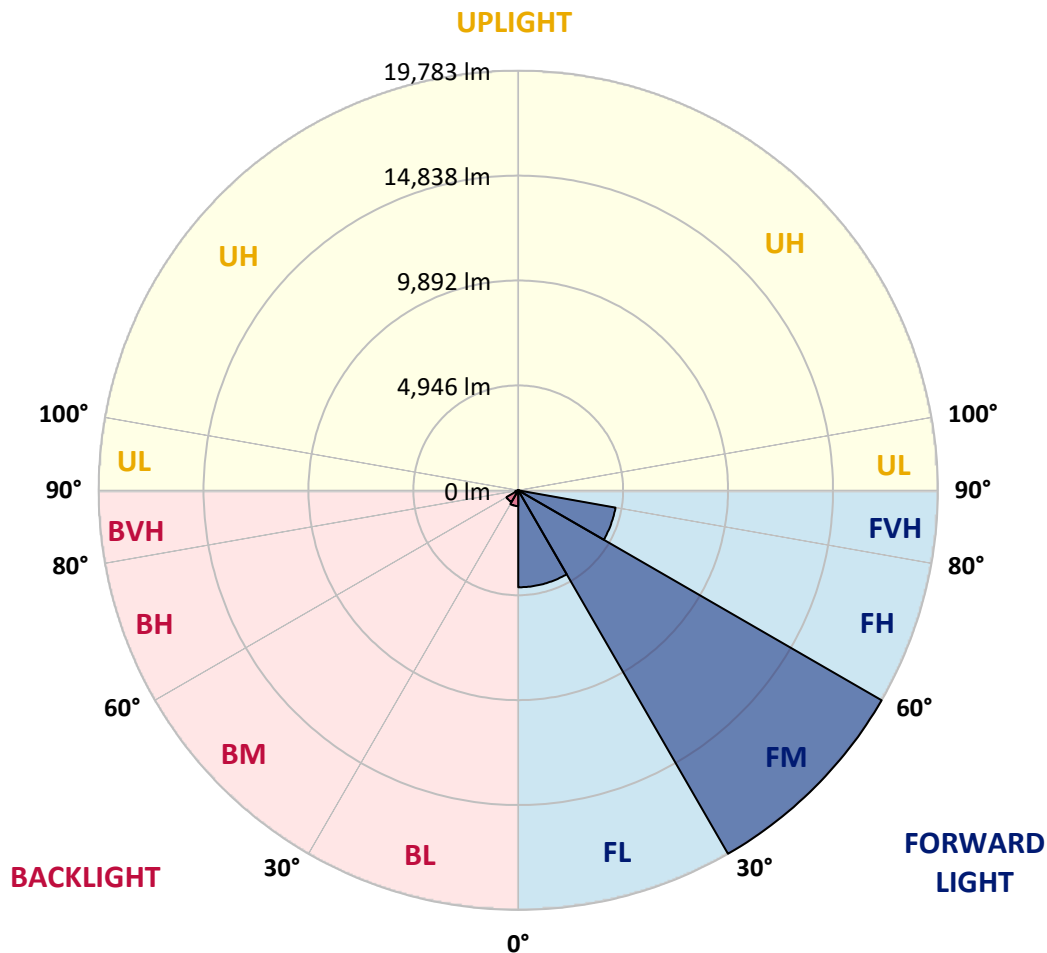
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4570.4	14.9			
FM (30°-60°)	19783.4	64.7			
FH (60°-80°)	4656.3	15.2			G2/5000
FVH (80°-90°)	39.4	0.1			G1/100
BL (0°-30°)	742.2	2.4	B2/1000		
BM (30°-60°)	641.0	2.1	B1/1000		
BH (60°-80°)	140.6	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6
2.5°	8593.1	8465.1	8469.0	8410.9	8198.3	8032.0	7859.0	7818.1	7548.7	7266.1	6994.1
5°	10078.6	9984.8	9962.4	9850.2	9554.4	9241.5	8906.1	8828.2	8301.3	7723.0	7153.9
7.5°	10841.8	10843.1	10824.6	10783.7	10598.8	10295.1	9885.8	9803.9	9087.0	8219.5	7320.3
10°	10619.9	10670.1	10773.1	10909.1	11050.4	11012.1	10704.4	10630.5	9851.5	8745.0	7505.1
12.5°	10102.3	10109.0	10223.8	10447.0	10853.7	11270.9	11276.2	11251.1	10581.7	9294.3	7708.5
15°	9844.9	9870.0	9912.2	10056.1	10441.7	11109.8	11587.8	11623.4	11251.1	9877.9	7925.0
17.5°	10013.9	10049.5	10013.9	10031.0	10254.2	10855.0	11641.9	11733.0	11836.0	10454.9	8129.7
20°	10472.1	10505.1	10441.7	10371.7	10415.3	10781.0	11603.6	11726.4	12294.2	10967.2	8301.3
22.5°	11090.0	11103.2	11006.8	10891.9	10860.3	11031.9	11635.3	11762.1	12661.3	11430.7	8409.6
25°	11770.0	11781.9	11661.7	11529.7	11454.4	11524.4	11895.4	11990.5	12984.8	11873.0	8471.7
27.5°	12510.8	12521.3	12370.8	12208.4	12121.2	12123.9	12324.6	12426.2	13329.4	12377.4	8521.8
30°	13293.7	13288.5	13149.8	12924.0	12813.1	12810.5	12942.5	13045.5	13828.5	13024.4	8590.5
32.5°	14173.1	14162.6	13965.8	13685.9	13560.5	13579.0	13696.5	13755.9	14447.8	13713.6	8713.3
35°	15331.1	15300.7	15003.7	14656.4	14425.3	14418.7	14517.8	14565.3	15237.4	14548.1	8918.0
37.5°	16833.7	16806.0	16403.3	15898.9	15574.1	15452.6	15570.1	15630.8	16363.7	15619.0	9246.7
40°	18315.2	18287.5	18048.5	17586.4	17085.9	16794.1	16886.5	16951.2	17769.9	16918.2	9661.3
42.5°	19337.2	19361.0	19444.1	19482.4	19013.7	18401.0	18443.3	18510.6	19247.4	18307.3	10135.4
45°	19606.6	19658.1	20128.1	21051.1	21226.7	20748.7	20306.4	20343.3	20748.7	19696.3	10609.4
47.5°	18797.2	18892.2	19799.3	21515.9	23002.6	23340.6	22503.5	22454.7	22189.3	20820.0	10946.1
50°	16957.8	17045.0	18220.1	20759.3	23541.3	25815.1	25136.4	24992.5	23452.9	21492.1	11064.9
52.5°	14295.9	14401.6	15356.2	18377.3	22526.0	26918.9	27629.3	27509.1	24379.8	21544.9	11084.7
55°	10095.7	10223.8	11233.9	14084.7	19308.1	26040.8	28512.6	28477.0	25149.6	21404.9	11127.0
57.5°	5673.7	5766.2	6855.5	9028.9	14141.4	22681.8	27589.7	27826.0	25614.4	21162.0	11190.4
60°	2519.3	2544.4	3108.2	4494.6	8278.9	17334.2	24947.6	25346.3	25215.6	20837.2	11297.3
62.5°	1397.0	1375.9	1375.9	1868.4	3598.1	10730.9	20343.3	21002.2	23513.6	20452.9	11302.6
65°	1094.6	1074.8	1018.0	1025.9	1370.6	4762.7	14087.3	15258.5	20281.3	19326.6	10922.3
67.5°	928.2	911.1	854.3	831.8	851.7	1571.3	7740.2	8956.2	15389.2	16399.3	9460.6
70°	784.3	772.4	743.4	715.7	665.5	776.4	2961.6	3788.2	9483.1	10909.1	6458.1
72.5°	631.1	625.9	636.4	612.7	551.9	517.6	1012.7	1226.6	4259.6	4868.3	2660.6
75°	544.0	541.4	546.6	522.9	454.2	360.5	515.0	562.5	1201.6	1191.0	538.7
77.5°	353.9	357.8	452.9	442.3	390.8	240.3	266.7	287.8	364.4	273.3	163.7
80°	225.8	223.1	229.7	367.1	351.2	183.5	133.4	140.0	175.6	134.7	79.2
82.5°	137.3	134.7	150.5	171.7	176.9	128.1	81.9	83.2	109.6	87.1	42.3
85°	11.9	15.8	91.1	84.5	60.7	39.6	39.6	42.3	58.1	51.5	23.8
87.5°	0.0	0.0	15.8	23.8	13.2	14.5	14.5	15.8	22.4	22.4	11.9
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°	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6	6847.6
2.5°	6852.9	6715.5	6438.3	6171.5	5945.7	5727.9	5479.6	5234.0	5119.2	5073.0	5025.4
5°	6864.7	6582.2	6010.4	5434.7	4837.9	4300.5	3842.4	3372.3	3137.3	3034.3	2986.7
7.5°	6880.6	6450.1	5525.9	4559.3	3598.1	2869.2	2232.8	1823.5	1646.5	1618.8	1550.1
10°	6883.2	6290.4	4963.4	3592.8	2412.4	1729.7	1331.0	1119.7	1041.8	1028.6	1006.1
12.5°	6888.5	6101.5	4338.8	2660.6	1608.2	1156.7	962.6	892.6	871.5	870.1	870.1
15°	6904.3	5903.5	3690.5	1917.2	1155.3	916.4	845.1	817.3	809.4	813.4	812.0
17.5°	6904.3	5669.8	3054.1	1428.7	933.5	823.9	784.3	765.8	763.2	767.1	768.5
20°	6854.2	5385.9	2470.5	1111.8	827.9	764.5	728.9	711.7	705.1	707.7	709.1
22.5°	6734.0	5037.3	1995.1	920.3	757.9	710.4	672.1	645.7	635.1	636.4	636.4
25°	6546.5	4624.0	1560.7	796.2	701.1	652.3	607.4	577.0	570.4	569.1	571.7
27.5°	6306.2	4167.2	1242.5	701.1	633.8	587.6	542.7	517.6	512.3	513.6	515.0
30°	6069.9	3693.1	979.7	620.6	558.5	515.0	480.6	468.7	468.7	472.7	474.0
32.5°	5853.3	3237.6	775.1	550.6	491.2	451.6	431.8	430.4	437.1	439.7	441.0
35°	5667.1	2816.4	641.7	496.5	438.4	404.0	397.4	402.7	410.6	415.9	417.2
37.5°	5535.1	2440.1	561.2	451.6	397.4	369.7	368.4	379.0	389.5	401.4	404.0
40°	5479.6	2121.9	505.7	412.0	364.4	343.3	339.3	353.9	373.7	390.8	393.5
42.5°	5433.4	1861.8	458.2	373.7	338.0	307.7	306.3	324.8	348.6	365.7	369.7
45°	5393.8	1653.1	414.6	332.7	303.7	264.1	268.0	291.8	310.3	328.8	332.7
47.5°	5312.0	1481.5	367.1	289.2	250.9	225.8	233.7	254.8	269.4	297.1	301.1
50°	5165.4	1341.5	318.2	236.4	204.7	195.4	207.3	221.8	240.3	264.1	266.7
52.5°	5066.4	1235.9	276.0	198.1	169.0	171.7	183.5	188.8	199.4	208.6	206.0
55°	5009.6	1177.8	241.6	171.7	143.9	151.8	154.5	147.9	142.6	133.4	129.4
57.5°	5003.0	1125.0	215.2	149.2	126.8	130.7	121.5	99.0	80.5	70.0	67.3
60°	4992.4	1060.3	194.1	125.4	112.2	107.0	87.1	54.1	38.3	35.7	35.7
62.5°	4877.5	959.9	178.3	105.6	95.1	80.5	50.2	25.1	21.1	22.4	22.4
65°	4511.8	820.0	162.4	85.8	75.3	58.1	25.1	14.5	7.9	9.2	9.2
67.5°	3835.7	653.6	145.2	66.0	56.8	37.0	14.5	6.6	0.0	0.0	0.0
70°	2568.2	405.4	122.8	46.2	37.0	22.4	10.6	1.3	0.0	0.0	0.0
72.5°	985.0	219.2	99.0	27.7	23.8	15.8	6.6	0.0	0.0	0.0	0.0
75°	221.8	143.9	68.7	19.8	17.2	10.6	2.6	0.0	0.0	0.0	0.0
77.5°	84.5	104.3	39.6	13.2	11.9	6.6	0.0	0.0	0.0	0.0	0.0
80°	40.9	62.1	18.5	7.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	23.8	7.9	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	11.9	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)