

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: P321299

Luminaire Tested: **GAN-SA5D-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31303 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

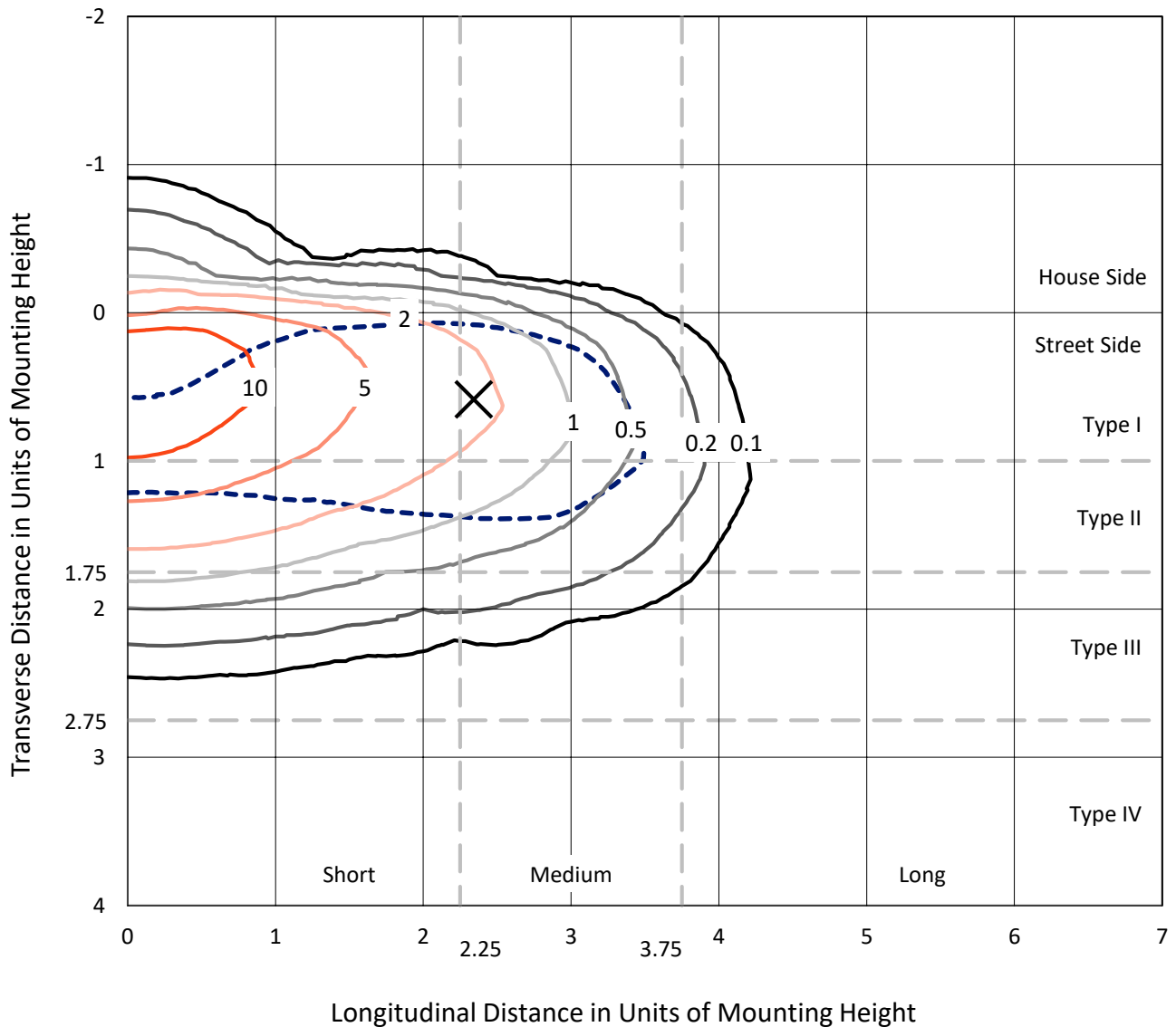
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321299
 CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

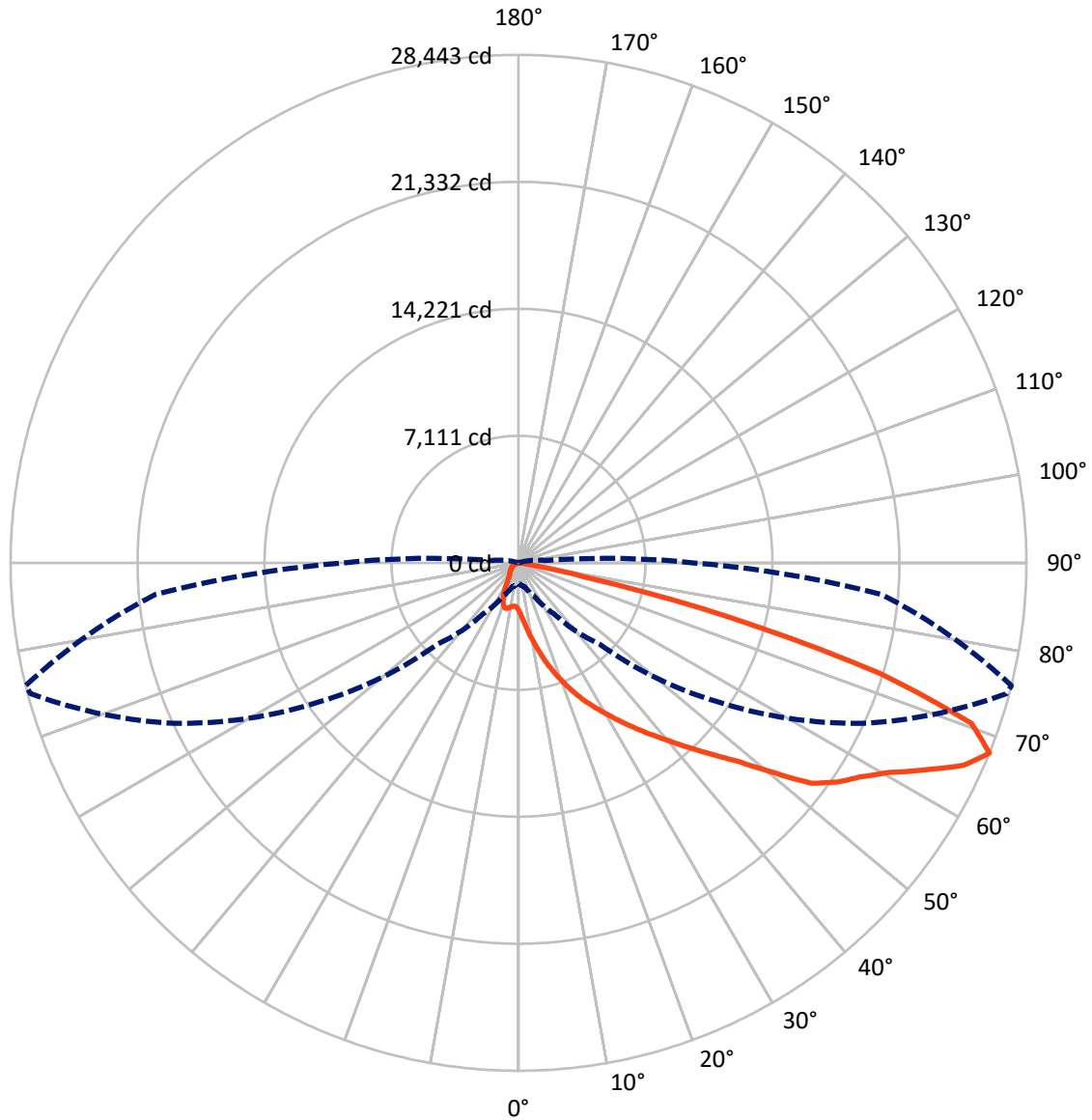
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

REPORT NUMBER: P321299
CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P321299
 CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

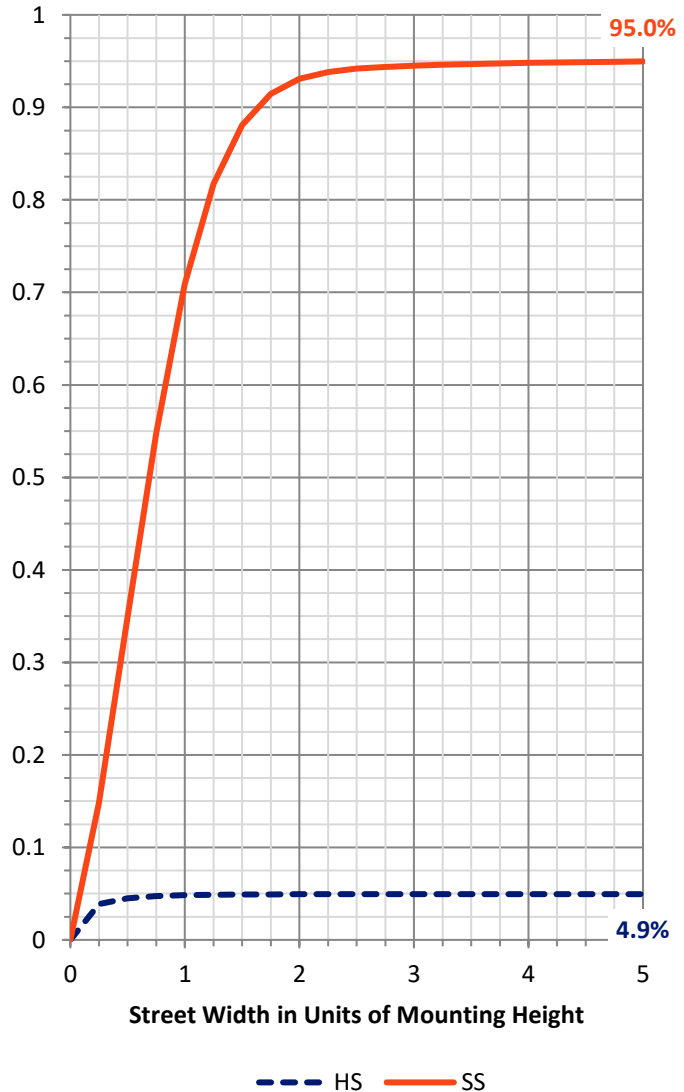
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.4	0.0	1554.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29748.6	0.0	29748.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	31303.0	0.0	31303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	1.1
10°-20°	1308.9	4.2
20°-30°	2663.3	8.5
30°-40°	4622.6	14.8
40°-50°	6531.1	20.9
50°-60°	7406.6	23.7
60°-70°	6143.0	19.6
70°-80°	2225.2	7.1
80°-90°	72.2	0.2
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°	31303.0	100.0
0°-180°	31303.0	100.0

Coefficient of Utilization



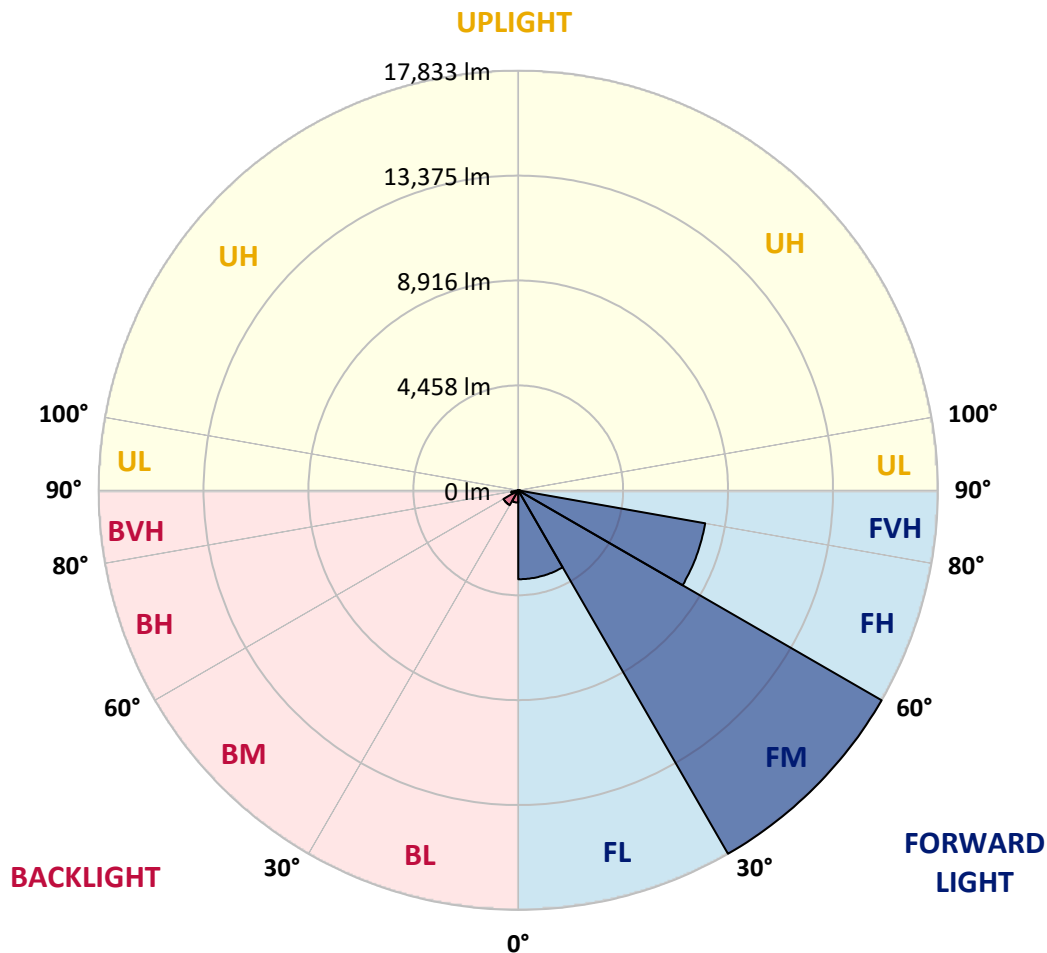
REPORT NUMBER: P321299
 CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3778.2	12.1			
FM (30°-60°)	17832.7	57.0			
FH (60°-80°)	8067.8	25.8			G4/12000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	524.2	1.7	B2/1000		
BM (30°-60°)	727.5	2.3	B1/1000		
BH (60°-80°)	300.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4

Type II Medium





REPORT NUMBER: P321299

CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4
2.5°	3963.9	3874.7	3895.3	3837.7	3733.5	3519.5	3337.1	3164.3	2962.6	2955.8	2789.8
5°	5345.1	5269.7	5260.1	5143.5	4954.2	4590.7	4236.8	3833.6	3383.7	3350.8	2998.3
7.5°	6598.7	6538.4	6516.4	6377.9	6025.4	5671.5	5210.7	4618.1	3914.5	3854.2	3279.5
10°	7561.6	7532.8	7538.3	7439.5	7137.8	6808.6	6203.7	5448.0	4516.7	4423.4	3616.9
12.5°	8291.3	8298.1	8347.5	8287.2	8118.4	7874.3	7228.3	6332.6	5183.2	5055.7	4002.3
15°	8827.6	8861.9	8952.4	9027.8	9015.5	8804.2	8211.7	7231.0	5891.0	5749.7	4431.6
17.5°	9174.6	9213.0	9344.7	9512.0	9665.6	9616.2	9160.9	8097.9	6607.0	6443.7	4891.1
20°	9479.1	9524.3	9665.6	9886.4	10173.1	10234.8	9935.8	8938.7	7321.6	7122.7	5365.7
22.5°	10138.8	10137.4	10223.8	10352.8	10625.7	10784.8	10595.5	9719.1	8027.9	7820.8	5849.8
25°	11332.1	11286.8	11256.7	11155.2	11215.5	11314.3	11208.6	10448.8	8738.4	8528.6	6340.9
27.5°	12750.3	12777.7	12533.6	12260.7	12049.4	11947.9	11775.1	11125.0	9421.5	9191.0	6820.9
30°	14246.7	14254.9	13966.9	13618.5	13153.6	12768.1	12469.1	11771.0	10123.7	9872.7	7287.3
32.5°	15596.4	15542.9	15257.6	14783.0	14196.0	13762.5	13141.2	12492.5	10867.1	10624.3	7805.7
35°	16666.2	16603.1	16256.1	15824.1	15215.1	14778.9	14031.4	13212.5	11648.9	11411.6	8325.6
37.5°	17448.0	17373.9	17017.3	16572.9	16047.6	15793.9	15064.2	13995.7	12502.1	12246.9	8872.8
40°	17719.6	17655.1	17431.6	17106.5	16684.0	16626.4	16160.1	14896.9	13430.6	13159.0	9492.8
42.5°	17557.7	17494.6	17415.1	17305.4	17129.8	17184.7	17194.3	15924.2	14462.1	14194.6	10177.2
45°	16915.8	16859.6	16941.9	17102.4	17320.5	17592.0	18137.9	17028.3	15614.2	15328.9	10968.6
47.5°	15970.8	15929.7	16157.3	16557.9	17195.6	17944.5	19000.7	18188.7	16907.6	16642.9	11956.2
50°	14626.7	14619.8	15075.2	15806.2	16786.9	18114.6	19892.2	19508.1	18704.4	18426.0	13329.1
52.5°	12533.6	12547.3	13443.0	14612.9	16069.6	17999.4	20465.5	21203.4	20794.7	20505.3	14518.3
55°	10540.7	10623.0	11258.0	12945.1	14969.5	17571.5	20663.0	21994.8	21948.2	21673.9	15179.4
57.5°	8588.9	8738.4	9350.1	10926.1	13363.4	16585.3	20554.7	22337.7	22806.8	22597.0	16051.7
60°	6473.9	6542.5	7247.5	8720.6	11301.9	14785.8	19768.7	22524.3	23980.9	23835.5	17317.7
62.5°	4118.9	4290.3	4915.8	6336.8	8800.1	12286.7	18443.8	22521.5	25449.9	25529.4	18951.3
65°	2169.9	2370.1	2702.0	3926.9	6047.3	9495.5	16450.9	22310.3	27252.2	27363.2	20228.2
67.5°	1170.0	1227.6	1403.1	2038.2	3507.2	6432.8	13522.5	21267.9	28295.9	28442.7	20406.5
70°	855.9	887.4	953.3	1127.4	1765.2	3736.2	9867.2	18904.6	26950.4	26895.5	18131.1
72.5°	657.0	706.4	755.7	825.7	1015.0	1994.3	6143.4	14803.6	21503.8	21141.7	13552.7
75°	518.5	526.7	596.6	659.7	761.2	1135.7	2728.1	8621.8	13124.8	12267.5	7028.0
77.5°	414.2	419.7	460.9	515.7	611.7	746.1	844.9	3391.9	4190.2	3739.0	1525.2
80°	245.5	259.2	342.9	397.8	507.5	470.5	308.6	736.5	654.2	592.5	256.5
82.5°	137.2	148.1	193.4	314.1	353.9	224.9	153.6	198.9	153.6	149.5	72.7
85°	0.0	6.9	124.8	194.8	144.0	49.4	64.5	65.8	45.3	42.5	28.8
87.5°	0.0	0.0	38.4	37.0	5.5	8.2	15.1	21.9	17.8	17.8	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321299

CATALOG NUMBER: GAN-SA5D-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4
2.5°	2707.5	2633.5	2493.6	2356.4	2241.2	2146.5	2061.5	2027.2	1999.8	1995.7	1973.7
5°	2828.2	2678.7	2411.3	2191.8	2045.0	1940.8	1851.6	1796.8	1754.3	1737.8	1722.7
7.5°	3010.6	2784.3	2400.3	2147.9	1972.3	1796.8	1632.2	1453.9	1342.8	1300.3	1275.6
10°	3232.8	2924.2	2441.4	2135.6	1828.3	1458.0	1185.1	958.7	866.8	836.7	828.4
12.5°	3492.1	3098.4	2512.8	2058.8	1521.1	1035.6	817.5	740.7	720.1	710.5	710.5
15°	3789.7	3289.1	2563.5	1836.6	1124.7	783.2	707.7	672.1	650.1	637.8	639.2
17.5°	4094.2	3475.6	2538.8	1514.2	829.8	696.8	640.5	602.1	572.0	559.6	556.9
20°	4401.4	3648.4	2401.7	1127.4	702.3	632.3	569.2	526.7	496.5	484.2	481.4
22.5°	4719.6	3795.2	2160.3	827.1	630.9	561.0	499.3	456.7	427.9	417.0	411.5
25°	5029.6	3914.5	1822.8	669.3	563.7	493.8	434.8	395.0	369.0	358.0	356.6
27.5°	5319.0	3990.0	1431.9	591.2	504.7	433.4	379.9	344.3	322.3	314.1	312.7
30°	5579.6	3996.8	1058.9	533.5	452.6	381.3	331.9	300.4	281.2	272.9	270.2
32.5°	5843.0	3939.2	770.8	481.4	404.6	336.0	288.0	263.3	249.6	242.8	242.8
35°	6091.2	3806.2	600.8	436.2	358.0	292.1	253.7	235.9	227.7	220.8	220.8
37.5°	6334.0	3615.5	510.2	396.4	314.1	255.1	223.6	212.6	205.7	198.9	198.9
40°	6580.9	3375.5	463.6	359.4	278.4	226.3	198.9	189.3	182.4	176.9	175.6
42.5°	6884.0	3098.4	433.4	325.1	246.9	200.3	175.6	164.6	159.1	153.6	150.9
45°	7235.1	2859.8	408.7	290.8	220.8	178.3	152.2	141.3	133.0	126.2	124.8
47.5°	7741.3	2686.9	375.8	253.7	196.1	155.0	131.7	119.3	107.0	100.1	98.8
50°	8387.3	2544.3	333.3	220.8	171.4	131.7	109.7	94.6	83.7	76.8	76.8
52.5°	8708.2	2357.8	294.9	192.0	144.0	111.1	89.2	71.3	65.8	59.0	59.0
55°	8837.2	2215.1	256.5	163.2	119.3	91.9	70.0	54.9	50.7	46.6	45.3
57.5°	9199.3	2174.0	223.6	138.5	98.8	72.7	53.5	41.1	38.4	32.9	32.9
60°	9782.2	2194.5	193.4	118.0	79.6	56.2	39.8	31.5	28.8	23.3	23.3
62.5°	10411.8	2168.5	163.2	101.5	61.7	41.1	27.4	23.3	23.3	13.7	12.3
65°	10532.5	1931.2	139.9	83.7	48.0	30.2	17.8	15.1	20.6	2.7	0.0
67.5°	9775.3	1497.8	120.7	64.5	35.7	23.3	13.7	6.9	17.8	0.0	0.0
70°	7816.7	951.9	97.4	46.6	27.4	19.2	11.0	2.7	13.7	0.0	0.0
72.5°	5527.5	552.8	76.8	32.9	23.3	15.1	8.2	0.0	8.2	0.0	0.0
75°	2795.3	294.9	48.0	24.7	17.8	11.0	5.5	0.0	1.4	0.0	0.0
77.5°	604.9	137.2	30.2	17.8	12.3	6.9	2.7	0.0	0.0	0.0	0.0
80°	131.7	60.4	19.2	11.0	6.9	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	31.5	9.6	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	16.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.5	1.4	1.4	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)