

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: P321937

Luminaire Tested: **GAN-SA3D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16850 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

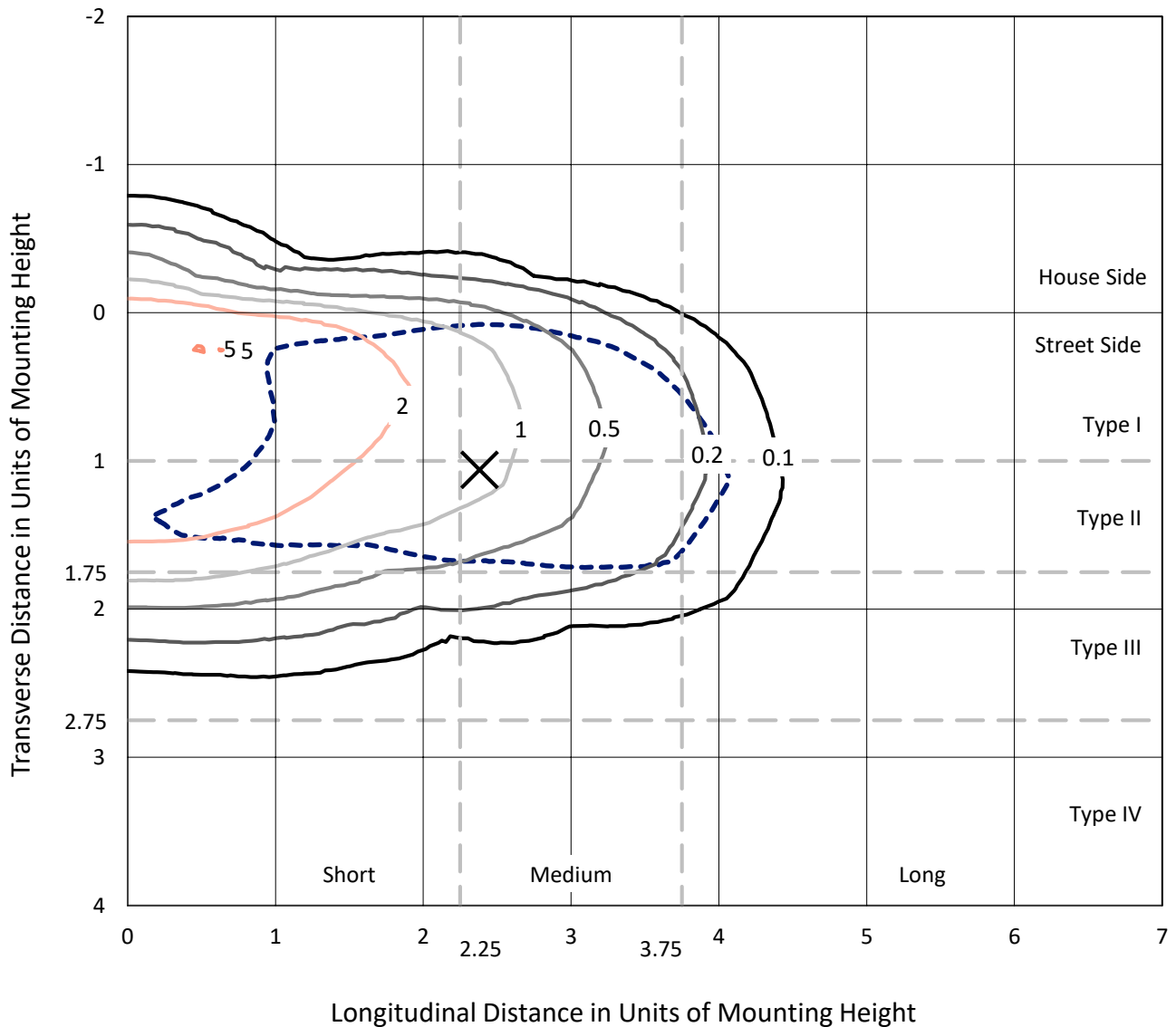
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321937
 CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

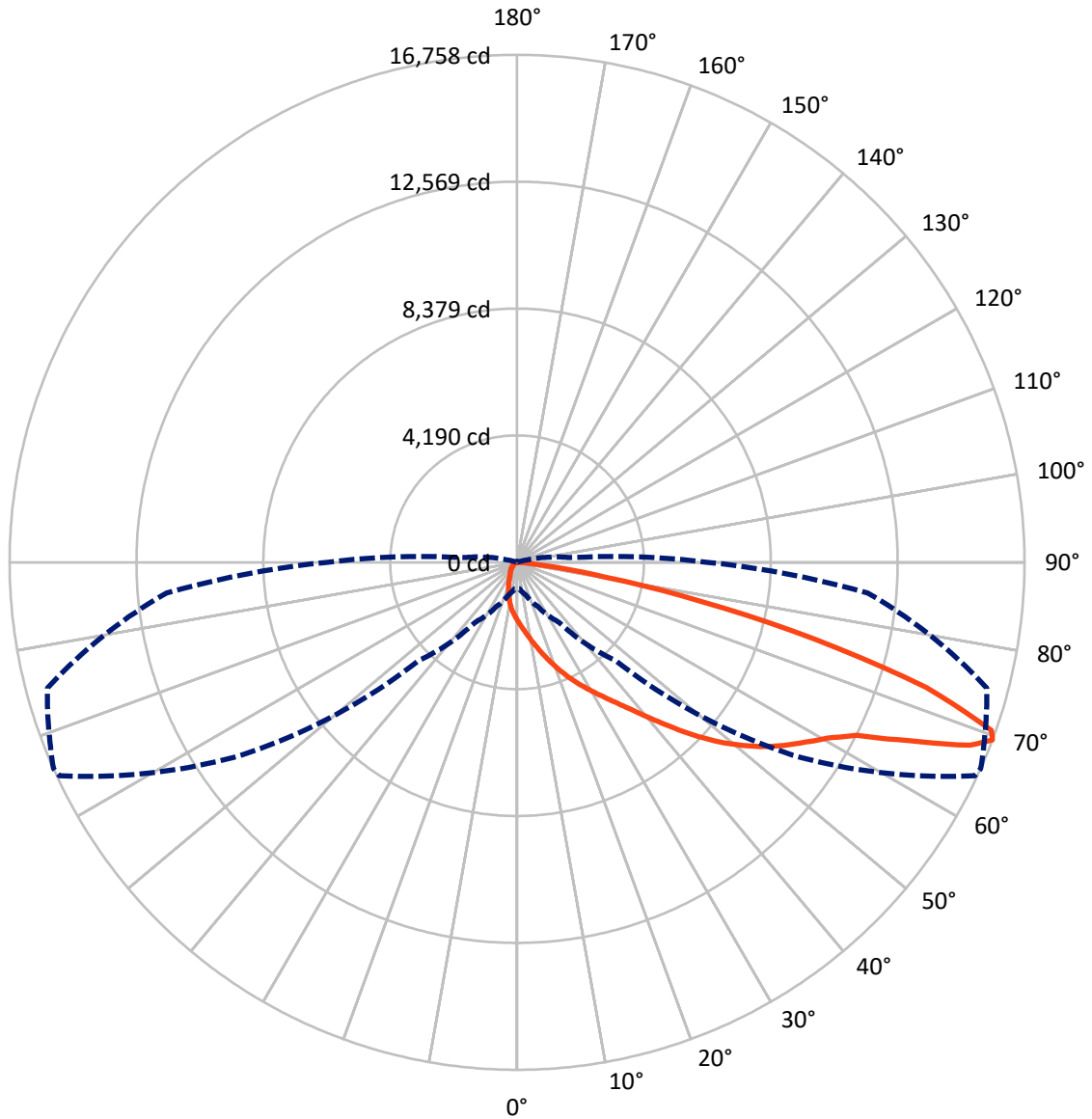
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321937
CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P321937
 CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

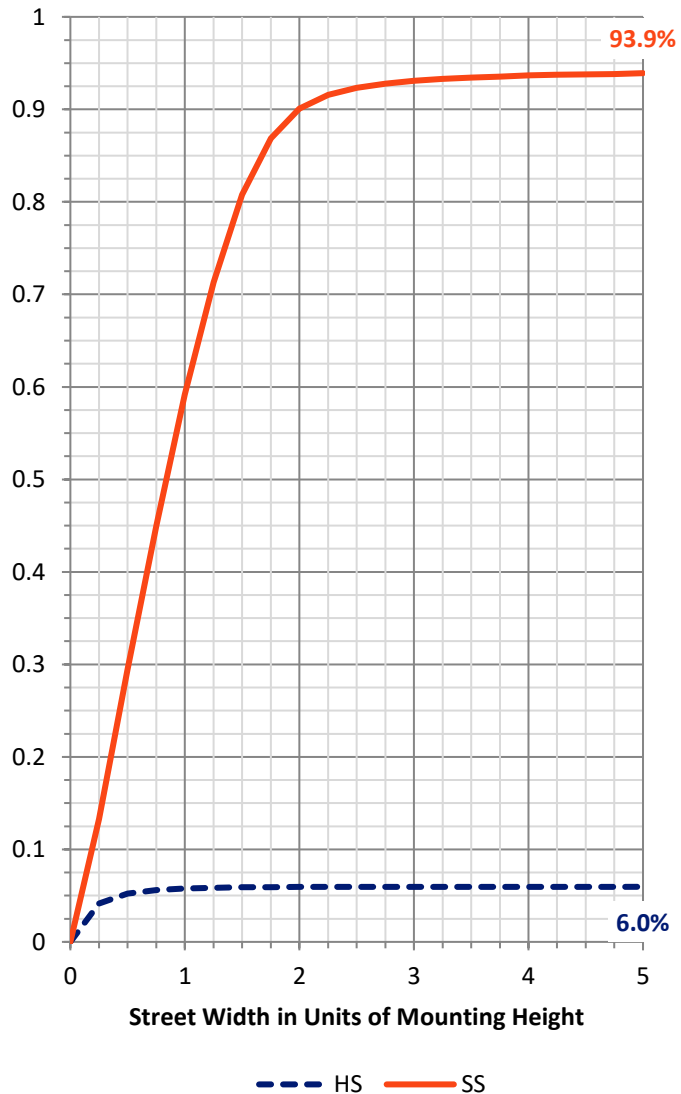
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.8	0.0	1010.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15839.2	0.0	15839.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	16850.0	0.0	16850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.1
10°-20°	551.7	3.3
20°-30°	960.7	5.7
30°-40°	1685.5	10.0
40°-50°	2821.2	16.7
50°-60°	4146.9	24.6
60°-70°	4257.8	25.3
70°-80°	2102.0	12.5
80°-90°	139.0	0.8
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°	16850.0	100.0
0°-180°	16850.0	100.0

Coefficient of Utilization

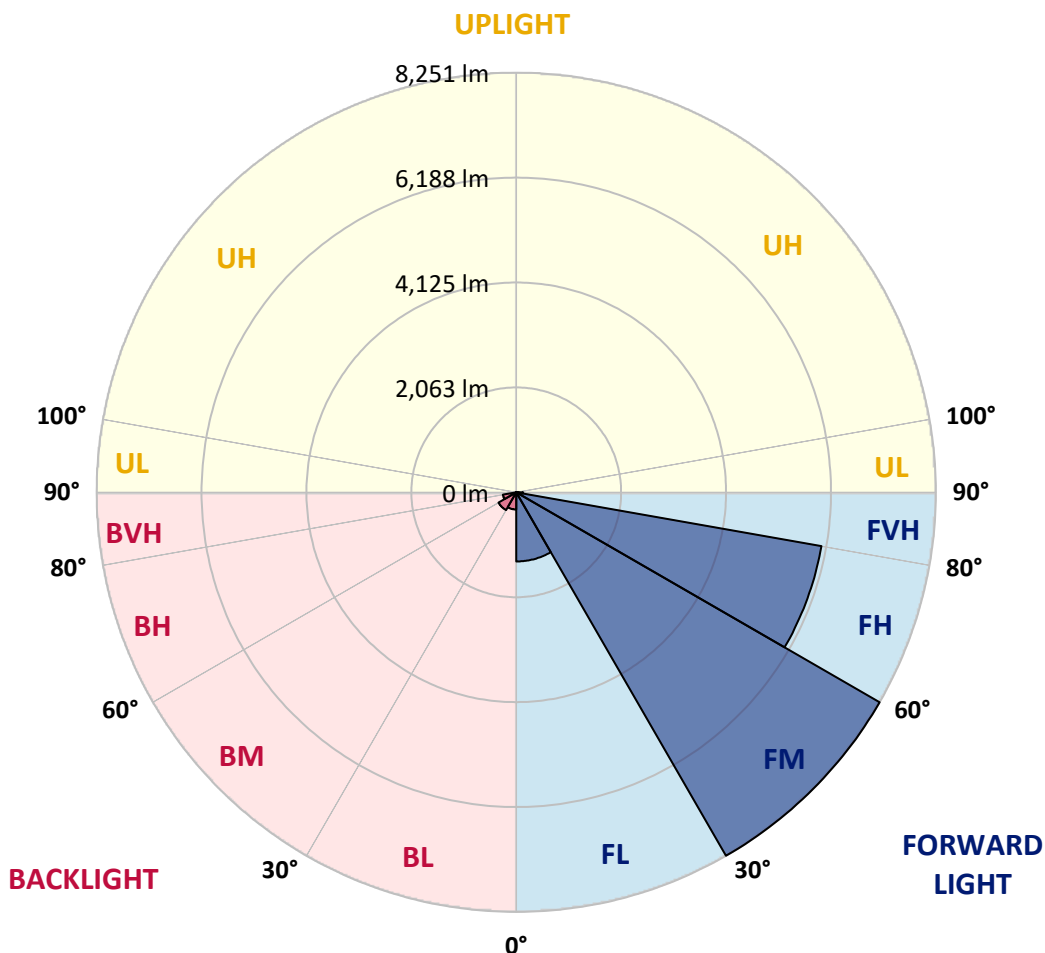


REPORT NUMBER: P321937
 CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.6	8.1			
FM (30°-60°)	8250.6	49.0			
FH (60°-80°)	6093.4	36.2			G3/7500
FVH (80°-90°)	135.6	0.8			G2/225
BL (0°-30°)	338.0	2.0	B1/500		
BM (30°-60°)	403.0	2.4	B1/1000		
BH (60°-80°)	266.4	1.6	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





REPORT NUMBER: P321937
 CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2256.9	2247.3	2243.3	2225.7	2195.3	2172.1	2127.3	2075.2	2065.6	2015.2	1953.6
5°	2549.8	2541.8	2536.2	2511.4	2480.2	2421.8	2340.2	2243.3	2224.9	2128.9	2005.6
7.5°	2753.9	2768.3	2768.3	2752.3	2713.1	2669.1	2569.1	2437.0	2413.8	2266.5	2075.2
10°	2873.2	2890.8	2904.4	2918.0	2912.4	2894.8	2800.3	2651.5	2623.5	2428.2	2156.1
12.5°	2884.4	2902.0	2940.4	2997.2	3052.4	3092.5	3033.2	2889.2	2857.2	2615.5	2252.1
15°	2822.0	2840.4	2899.6	3010.0	3143.7	3260.5	3279.7	3152.5	3119.7	2838.8	2372.2
17.5°	2713.1	2725.1	2809.9	2962.8	3172.5	3387.0	3503.0	3435.0	3404.6	3094.1	2505.8
20°	2632.3	2641.1	2715.5	2879.6	3154.9	3466.2	3714.3	3735.1	3703.1	3367.8	2650.7
22.5°	2770.7	2786.7	2789.1	2866.8	3106.9	3505.4	3900.0	4030.4	4006.4	3658.3	2793.1
25°	3149.3	3167.7	3106.9	3058.9	3147.7	3523.0	4059.3	4333.0	4313.8	3971.2	2936.4
27.5°	3649.5	3668.7	3590.3	3447.0	3361.4	3589.5	4200.9	4640.3	4639.5	4302.6	3090.9
30°	4140.9	4160.1	4080.1	3936.8	3739.9	3777.5	4323.4	4962.0	4966.8	4644.3	3254.9
32.5°	4656.3	4680.3	4597.9	4413.8	4208.1	4102.5	4495.4	5285.4	5312.6	5040.5	3439.8
35°	5242.1	5245.3	5129.3	4936.4	4699.5	4537.1	4771.6	5647.9	5712.7	5531.1	3674.3
37.5°	5816.8	5840.0	5744.7	5440.6	5222.9	5038.9	5182.1	6100.9	6192.9	6130.5	3980.8
40°	6242.6	6291.4	6277.8	5949.6	5743.1	5611.9	5691.9	6639.5	6756.4	6828.4	4367.4
42.5°	6509.9	6546.7	6609.1	6411.4	6224.1	6245.8	6293.8	7267.0	7411.0	7623.9	4811.6
45°	6816.4	6834.0	6886.0	6798.8	6672.3	6890.0	6932.4	7973.7	8124.9	8479.5	5304.6
47.5°	7190.9	7232.6	7247.0	7166.9	7109.3	7459.9	7547.9	8616.3	8828.4	9395.8	5826.4
50°	7667.9	7679.1	7704.0	7651.9	7594.3	7949.7	8100.1	9291.0	9483.9	10315.4	6341.0
52.5°	8134.5	8174.5	8261.0	8228.2	8205.0	8366.6	8592.3	9899.2	10114.5	11082.1	6854.8
55°	8269.0	8303.4	8601.9	8806.0	8994.9	8880.4	9062.9	10444.3	10677.2	11767.2	7349.4
57.5°	7732.0	7801.6	8318.6	8850.0	9633.5	9679.2	9709.6	11003.7	11212.6	12292.2	7864.0
60°	6374.6	6388.2	7236.6	8148.1	9527.9	10376.2	10654.0	11604.7	11780.0	12781.2	8480.3
62.5°	4054.5	4192.9	5123.7	6410.6	8410.6	10275.4	11796.0	12513.9	12577.9	13367.9	9363.8
65°	1931.2	2020.8	2691.5	3960.8	6092.1	8984.5	12584.3	14158.6	14187.4	14530.7	10544.3
67.5°	1069.2	1112.5	1431.8	2132.1	3561.5	6353.8	12265.8	16106.6	16133.8	15718.4	11579.9
69°	836.3	873.2	1124.5	1607.1	2414.6	4566.7	11099.7	16677.2	16758.1	16058.6	11616.8
70°	709.9	745.9	968.4	1357.4	1941.6	3528.6	9880.0	16535.6	16621.2	16026.6	11342.2
72.5°	434.6	455.4	645.1	955.6	1301.3	1775.1	6092.9	13984.1	14129.0	14701.2	9748.0
75°	292.9	304.1	403.4	659.5	930.8	914.0	3165.3	9856.8	10170.6	11435.9	7199.7
77.5°	209.7	220.1	270.5	426.6	652.3	603.4	1433.4	6125.7	6192.9	6858.8	3926.4
80°	119.2	128.9	191.3	253.7	442.6	402.6	569.8	2926.0	2959.6	2941.2	1310.9
82.5°	62.4	70.4	104.8	167.3	284.1	263.3	236.9	979.6	984.4	818.7	287.3
85°	12.0	14.4	52.0	114.4	146.5	114.4	96.8	229.7	234.5	207.3	71.2
87.5°	0.0	0.8	20.8	25.6	28.8	29.6	31.2	44.8	48.0	64.8	19.2
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: P321937
 CATALOG NUMBER: GAN-SA3D-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1926.4	1897.6	1842.4	1778.3	1728.7	1679.9	1641.5	1601.5	1587.0	1579.8	1579.0
5°	1945.6	1884.8	1767.9	1647.9	1549.4	1456.6	1390.2	1326.9	1297.3	1283.7	1278.1
7.5°	1977.6	1880.0	1691.9	1508.6	1367.0	1250.9	1158.9	1090.0	1055.6	1041.2	1035.6
10°	2015.2	1873.6	1603.1	1361.4	1180.5	1060.4	969.2	901.2	863.6	847.5	839.5
12.5°	2059.2	1862.4	1500.6	1212.5	1021.2	901.2	790.7	706.7	663.5	645.1	636.3
15°	2113.7	1851.2	1393.4	1072.4	881.2	734.7	613.9	557.0	548.2	545.0	545.8
17.5°	2167.3	1833.5	1276.5	934.0	733.9	573.8	512.2	509.0	510.6	510.6	510.6
20°	2215.3	1793.5	1149.3	815.5	593.8	484.2	471.4	465.8	461.8	458.6	454.6
22.5°	2252.9	1739.9	1026.8	697.9	485.0	443.4	423.4	405.8	391.4	381.8	377.0
25°	2278.5	1668.7	914.8	585.0	436.2	403.4	367.4	337.7	315.3	301.7	296.1
27.5°	2297.7	1591.9	814.7	489.8	402.6	356.9	309.7	274.5	251.3	239.3	234.5
30°	2311.3	1504.6	726.7	430.6	364.9	308.1	257.7	223.3	206.5	200.1	196.9
32.5°	2324.2	1407.8	643.5	402.6	329.7	263.3	216.1	189.7	179.3	171.3	168.9
35°	2356.2	1318.1	564.2	373.0	293.7	224.9	185.7	166.5	156.1	151.3	149.7
37.5°	2432.2	1251.7	488.2	342.5	257.7	194.5	162.5	148.9	139.3	134.5	132.9
40°	2554.6	1218.1	424.2	309.7	222.5	171.3	147.3	134.5	124.1	116.8	115.2
42.5°	2734.7	1222.9	379.4	276.9	194.5	152.9	132.9	117.6	106.4	100.0	98.4
45°	2953.2	1258.1	348.1	244.9	171.3	138.5	116.8	100.8	90.4	84.8	83.2
47.5°	3190.1	1314.9	322.5	216.1	152.9	124.9	100.8	84.0	75.2	70.4	69.6
50°	3439.8	1370.2	296.1	188.1	136.9	111.2	84.8	69.6	62.4	58.4	56.8
52.5°	3692.7	1434.2	272.1	162.5	123.3	95.2	70.4	56.8	51.2	48.0	46.4
55°	3964.8	1482.2	248.9	142.5	109.6	80.8	58.4	47.2	42.4	38.4	37.6
57.5°	4285.0	1556.6	224.9	123.3	93.6	67.2	48.0	37.6	33.6	29.6	28.8
60°	4717.1	1643.9	199.3	108.8	76.8	55.2	39.2	30.4	25.6	22.4	21.6
62.5°	5287.0	1740.7	167.3	95.2	62.4	44.8	31.2	24.0	18.4	14.4	14.4
65°	6009.7	1898.4	136.9	80.0	51.2	36.8	24.0	17.6	10.4	6.4	6.4
67.5°	6431.4	1925.6	110.4	65.6	41.6	31.2	20.0	12.0	3.2	0.8	0.0
69°	6296.2	1767.9	93.6	56.0	36.0	29.6	18.4	8.8	1.6	0.0	0.0
70°	6041.7	1616.7	82.4	49.6	32.8	28.0	17.6	6.4	1.6	0.0	0.0
72.5°	4992.4	1150.9	62.4	36.8	24.0	24.8	16.0	4.0	1.6	0.0	0.0
75°	3636.7	699.5	44.8	25.6	15.2	18.4	11.2	1.6	0.8	0.0	0.0
77.5°	2023.2	329.7	28.0	14.4	9.6	11.2	5.6	0.0	0.0	0.0	0.0
80°	657.1	89.6	12.8	8.0	5.6	6.4	2.4	0.0	0.0	0.0	0.0
82.5°	121.6	25.6	7.2	4.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.4	10.4	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.2	0.8	0.0	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)