

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: P321878

Luminaire Tested: **GAN-SA4B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321878
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-SA4B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 14934 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

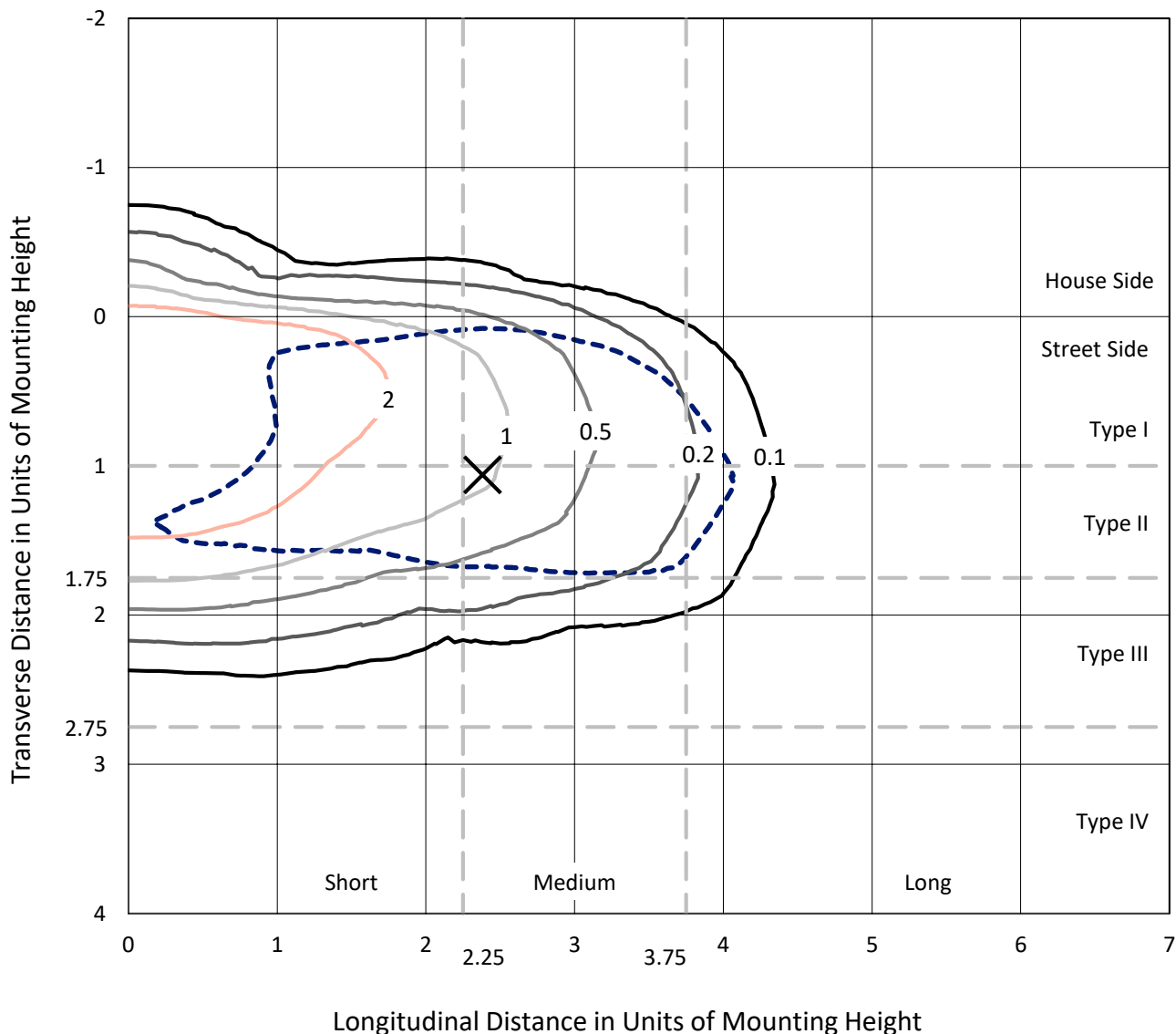
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321878
 CATALOG NUMBER: GAN-SA4B-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

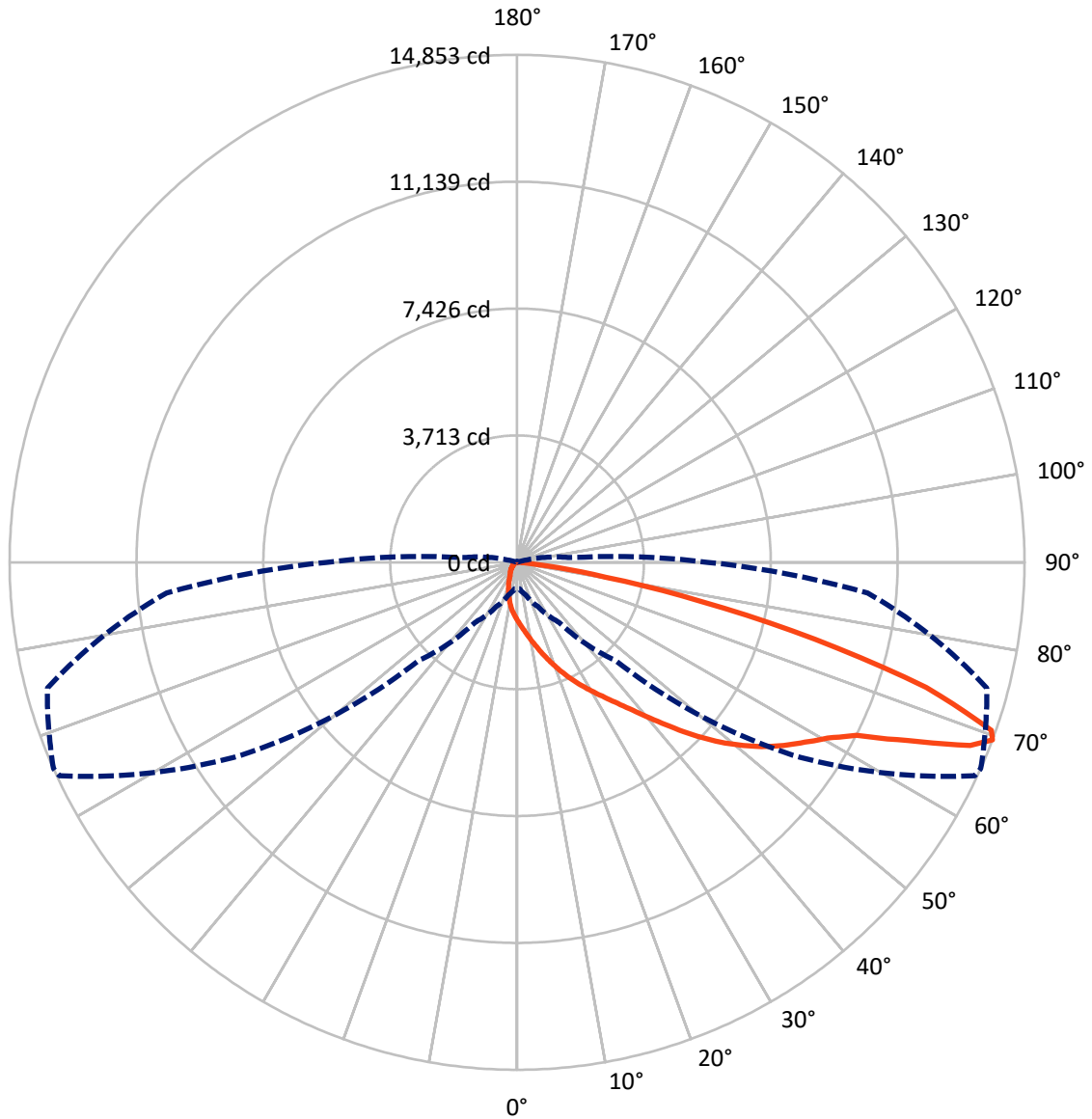
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P321878
CATALOG NUMBER: GAN-SA4B-730-U-T2-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA4B-730-U-T2-HSS

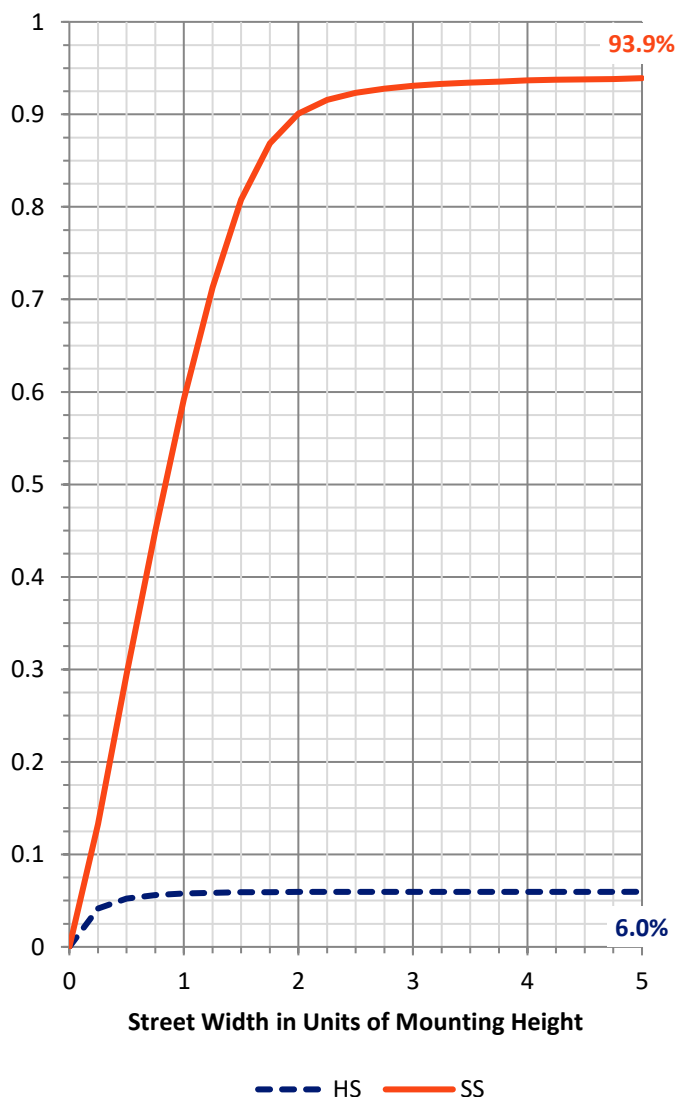
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	895.8	0.0	895.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14038.2	0.0	14038.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	14934.0	0.0	14934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.1
10°-20°	488.9	3.3
20°-30°	851.4	5.7
30°-40°	1493.8	10.0
40°-50°	2500.4	16.7
50°-60°	3675.4	24.6
60°-70°	3773.7	25.3
70°-80°	1863.0	12.5
80°-90°	123.2	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°	14934.0	100.0
0°-180°	14934.0	100.0

Coefficient of Utilization

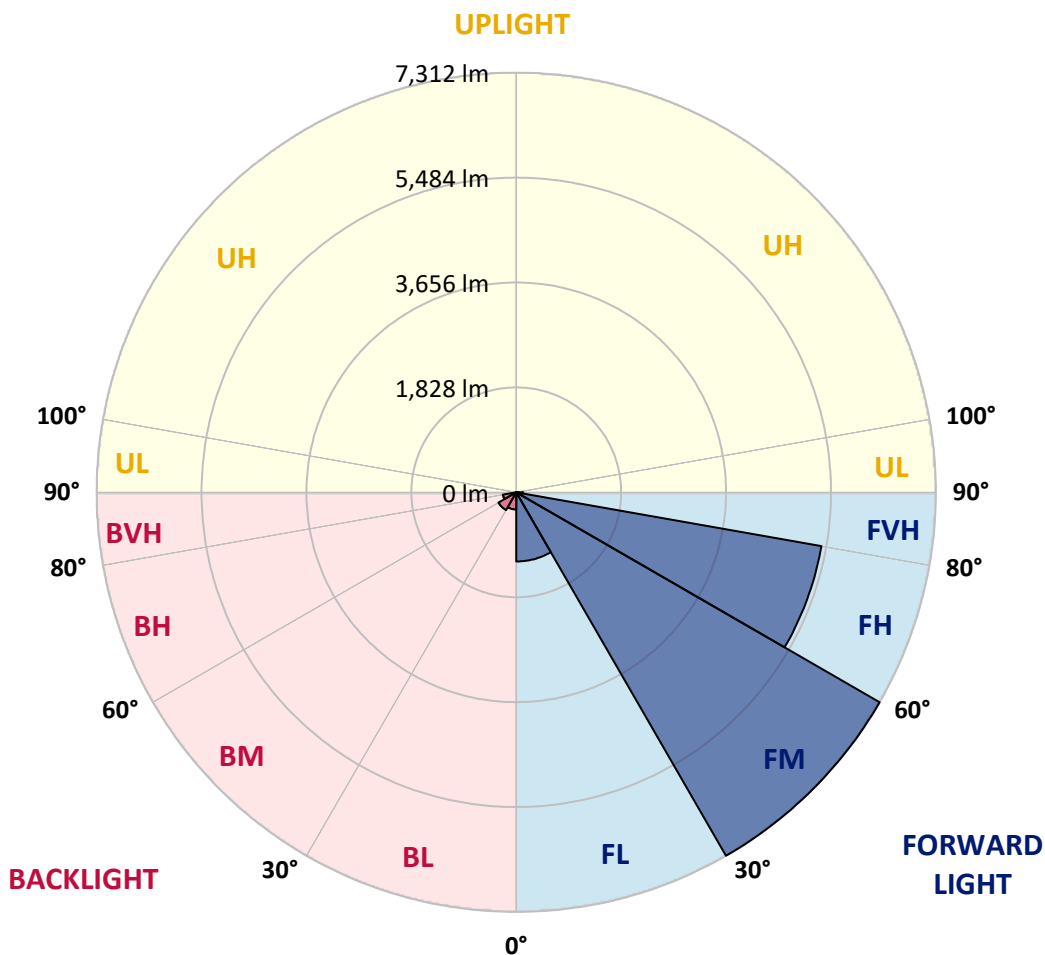


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.0	8.1			
FM (30°-60°)	7312.4	49.0			
FH (60°-80°)	5400.5	36.2			G3/7500
FVH (80°-90°)	120.2	0.8			G2/225
BL (0°-30°)	299.6	2.0	B1/500		
BM (30°-60°)	357.2	2.4	B1/1000		
BH (60°-80°)	236.1	1.6	B1/500		G1/500
BVH (80°-90°)	3.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5
2.5°	2000.3	1991.8	1988.2	1972.6	1945.7	1925.1	1885.4	1839.3	1830.8	1786.1	1731.5
5°	2259.9	2252.8	2247.8	2225.9	2198.2	2146.4	2074.1	1988.2	1971.9	1886.8	1777.6
7.5°	2440.8	2453.5	2453.5	2439.4	2404.6	2365.6	2276.9	2159.9	2139.3	2008.8	1839.3
10°	2546.5	2562.1	2574.1	2586.2	2581.2	2565.6	2481.9	2350.0	2325.2	2152.1	1910.9
12.5°	2556.4	2572.0	2606.1	2656.4	2705.4	2740.8	2688.3	2560.7	2532.3	2318.1	1996.0
15°	2501.1	2517.4	2569.9	2667.8	2786.2	2889.8	2906.8	2794.0	2764.9	2516.0	2102.4
17.5°	2404.6	2415.2	2490.4	2625.9	2811.8	3001.9	3104.7	3044.4	3017.5	2742.2	2220.9
20°	2333.0	2340.8	2406.7	2552.1	2796.2	3072.1	3292.0	3310.4	3282.0	2984.8	2349.3
22.5°	2455.7	2469.9	2472.0	2540.8	2753.6	3106.8	3456.5	3572.1	3550.9	3242.3	2475.5
25°	2791.2	2807.5	2753.6	2711.0	2789.8	3122.4	3597.7	3840.3	3823.2	3519.7	2602.5
27.5°	3234.5	3251.5	3182.0	3055.1	2979.2	3181.3	3723.2	4112.7	4111.9	3813.3	2739.4
30°	3670.0	3687.1	3616.1	3489.2	3314.7	3348.0	3831.8	4397.8	4402.1	4116.2	2884.8
32.5°	4126.8	4148.1	4075.1	3911.9	3729.6	3636.0	3984.3	4684.4	4708.5	4467.3	3048.7
35°	4646.1	4648.9	4546.0	4375.1	4165.1	4021.2	4229.0	5005.7	5063.1	4902.1	3256.5
37.5°	5155.4	5175.9	5091.5	4822.0	4629.0	4465.9	4592.9	5407.2	5488.7	5433.4	3528.2
40°	5532.7	5576.0	5563.9	5273.1	5090.1	4973.8	5044.7	5884.5	5988.1	6051.9	3870.8
42.5°	5769.6	5802.3	5857.6	5682.4	5516.4	5535.6	5578.1	6440.6	6568.3	6757.0	4264.4
45°	6041.3	6056.9	6103.0	6025.7	5913.6	6106.6	6144.2	7067.0	7201.0	7515.3	4701.4
47.5°	6373.3	6410.1	6422.9	6352.0	6300.9	6611.6	6689.6	7636.6	7824.5	8327.4	5163.9
50°	6796.0	6806.0	6827.9	6781.8	6730.8	7045.7	7179.1	8234.5	8405.5	9142.5	5620.0
52.5°	7209.6	7245.0	7321.6	7292.5	7272.0	7415.3	7615.3	8773.6	8964.4	9822.0	6075.3
55°	7328.7	7359.2	7623.8	7804.7	7972.1	7870.6	8032.4	9256.7	9463.1	10429.2	6513.7
57.5°	6852.8	6914.5	7372.7	7843.7	8538.1	8578.5	8605.5	9752.5	9937.6	10894.5	6969.8
60°	5649.8	5661.8	6413.7	7221.6	8444.5	9196.4	9442.5	10285.2	10440.5	11327.9	7516.0
62.5°	3593.4	3716.1	4541.1	5681.7	7454.3	9107.0	10454.7	11091.0	11147.7	11847.8	8299.1
65°	1711.6	1791.0	2385.5	3510.4	5399.4	7962.9	11153.4	12548.6	12574.2	12878.5	9345.3
67.5°	947.7	986.0	1269.0	1889.6	3156.5	5631.3	10871.1	14275.1	14299.2	13931.1	10263.2
69°	741.2	773.9	996.6	1424.3	2140.0	4047.4	9837.6	14780.9	14852.5	14232.6	10295.8
70°	629.2	661.1	858.3	1203.0	1720.8	3127.4	8756.6	14655.3	14731.2	14204.2	10052.5
72.5°	385.2	403.6	571.7	846.9	1153.4	1573.3	5400.1	12394.0	12522.4	13029.5	8639.6
75°	259.6	269.5	357.5	584.5	824.9	810.0	2805.4	8736.0	9014.1	10135.5	6381.1
77.5°	185.8	195.1	239.8	378.1	578.1	534.8	1270.4	5429.2	5488.7	6078.9	3479.9
80°	105.7	114.2	169.5	224.9	392.3	356.8	505.0	2593.3	2623.1	2606.8	1161.9
82.5°	55.3	62.4	92.9	148.2	251.8	233.4	210.0	868.2	872.5	725.6	254.6
85°	10.6	12.8	46.1	101.4	129.8	101.4	85.8	203.6	207.8	183.7	63.1
87.5°	0.0	0.7	18.4	22.7	25.5	26.2	27.7	39.7	42.6	57.5	17.0
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: P321878
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5
2.5°	1707.3	1681.8	1632.9	1576.1	1532.1	1488.9	1454.8	1419.4	1406.6	1400.2	1399.5
5°	1724.4	1670.5	1566.9	1460.5	1373.2	1291.0	1232.1	1176.1	1149.8	1137.8	1132.8
7.5°	1752.7	1666.2	1499.5	1337.1	1211.5	1108.7	1027.1	966.1	935.6	922.8	917.9
10°	1786.1	1660.5	1420.8	1206.6	1046.3	939.9	859.0	798.7	765.4	751.2	744.1
12.5°	1825.1	1650.6	1330.0	1074.6	905.1	798.7	700.8	626.3	588.0	571.7	563.9
15°	1873.3	1640.7	1234.9	950.5	781.0	651.2	544.1	493.7	485.9	483.0	483.8
17.5°	1920.8	1625.1	1131.4	827.8	650.4	508.6	454.0	451.1	452.5	452.5	452.5
20°	1963.4	1589.6	1018.6	722.8	526.3	429.1	417.8	412.8	409.3	406.4	402.9
22.5°	1996.7	1542.1	910.1	618.5	429.8	393.0	375.2	359.6	346.9	338.3	334.1
25°	2019.4	1478.9	810.8	518.5	386.6	357.5	325.6	299.3	279.5	267.4	262.4
27.5°	2036.5	1410.8	722.1	434.1	356.8	316.4	274.5	243.3	222.7	212.1	207.8
30°	2048.5	1333.5	644.1	381.6	323.5	273.1	228.4	197.9	183.0	177.3	174.5
32.5°	2059.9	1247.7	570.3	356.8	292.2	233.4	191.5	168.1	158.9	151.8	149.7
35°	2088.2	1168.3	500.1	330.5	260.3	199.3	164.6	147.5	138.3	134.1	132.6
37.5°	2155.6	1109.4	432.7	303.6	228.4	172.4	144.0	131.9	123.4	119.2	117.7
40°	2264.2	1079.6	375.9	274.5	197.2	151.8	130.5	119.2	109.9	103.6	102.1
42.5°	2423.8	1083.8	336.2	245.4	172.4	135.5	117.7	104.3	94.3	88.7	87.2
45°	2617.4	1115.1	308.6	217.1	151.8	122.7	103.6	89.4	80.2	75.2	73.8
47.5°	2827.4	1165.4	285.9	191.5	135.5	110.7	89.4	74.5	66.7	62.4	61.7
50°	3048.7	1214.4	262.4	166.7	121.3	98.6	75.2	61.7	55.3	51.8	50.4
52.5°	3272.8	1271.1	241.2	144.0	109.2	84.4	62.4	50.4	45.4	42.6	41.1
55°	3514.0	1313.7	220.6	126.3	97.2	71.6	51.8	41.9	37.6	34.0	33.3
57.5°	3797.7	1379.6	199.3	109.2	83.0	59.6	42.6	33.3	29.8	26.2	25.5
60°	4180.7	1456.9	176.6	96.5	68.1	48.9	34.8	27.0	22.7	19.9	19.2
62.5°	4685.8	1542.8	148.2	84.4	55.3	39.7	27.7	21.3	16.3	12.8	12.8
65°	5326.3	1682.5	121.3	70.9	45.4	32.6	21.3	15.6	9.2	5.7	5.7
67.5°	5700.1	1706.6	97.9	58.2	36.9	27.7	17.7	10.6	2.8	0.7	0.0
69°	5580.2	1566.9	83.0	49.7	31.9	26.2	16.3	7.8	1.4	0.0	0.0
70°	5354.7	1432.8	73.1	44.0	29.1	24.8	15.6	5.7	1.4	0.0	0.0
72.5°	4424.8	1020.0	55.3	32.6	21.3	22.0	14.2	3.5	1.4	0.0	0.0
75°	3223.2	619.9	39.7	22.7	13.5	16.3	9.9	1.4	0.7	0.0	0.0
77.5°	1793.2	292.2	24.8	12.8	8.5	9.9	5.0	0.0	0.0	0.0	0.0
80°	582.4	79.4	11.3	7.1	5.0	5.7	2.1	0.0	0.0	0.0	0.0
82.5°	107.8	22.7	6.4	3.5	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	23.4	9.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.8	0.7	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)