

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: P322826

Luminaire Tested: **GAN-SA2A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6294 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

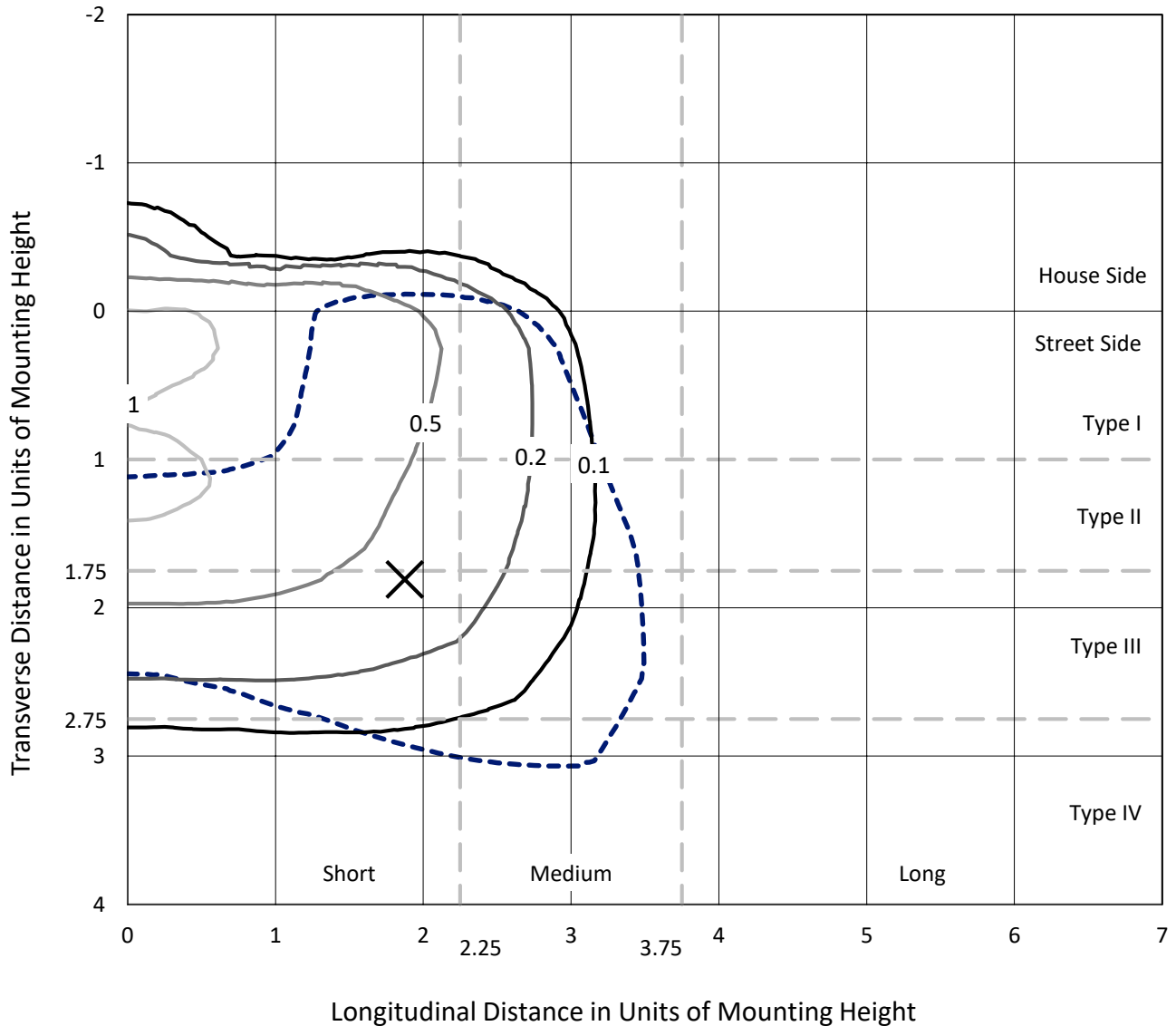
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

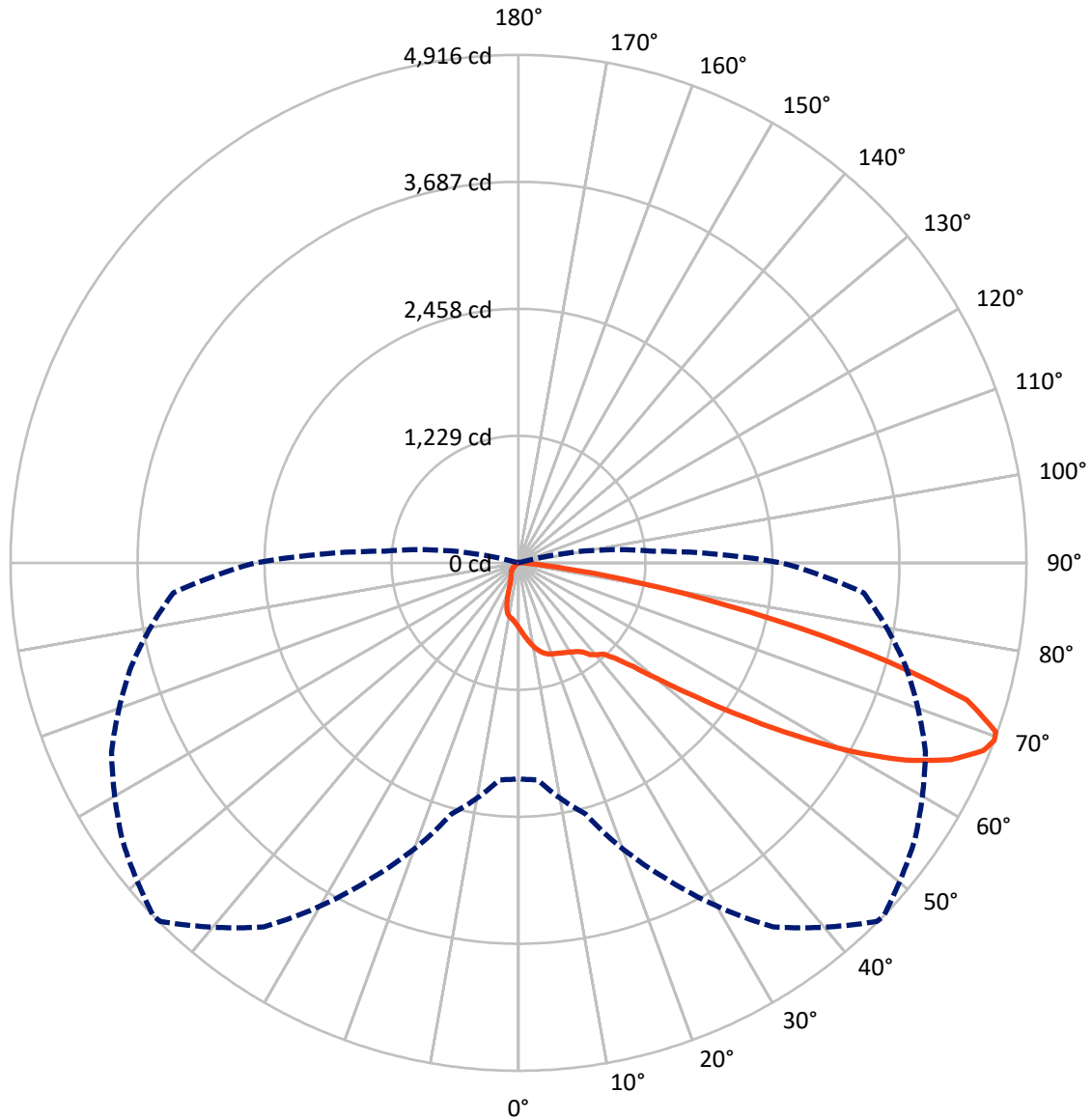
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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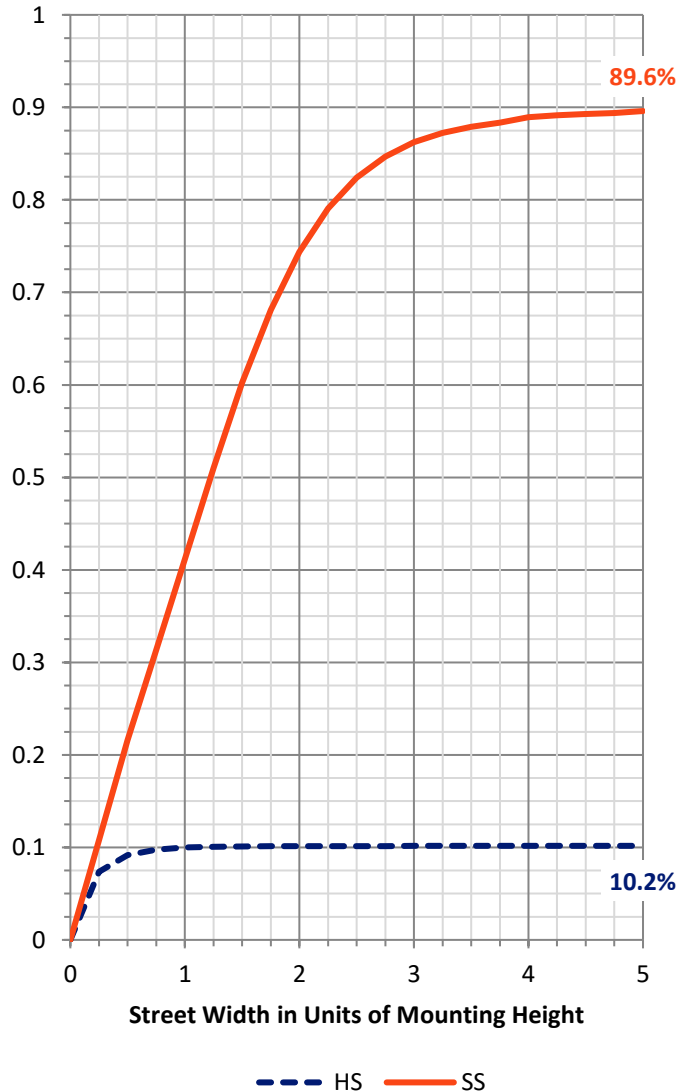
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	645.9	0.0	645.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5648.1	0.0	5648.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	6294.0	0.0	6294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.0
10°-20°	190.4	3.0
20°-30°	299.5	4.8
30°-40°	429.5	6.8
40°-50°	742.3	11.8
50°-60°	1466.4	23.3
60°-70°	2049.4	32.6
70°-80°	990.1	15.7
80°-90°	63.6	1.0
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°	6294.0	100.0
0°-180°	6294.0	100.0

Coefficient of Utilization



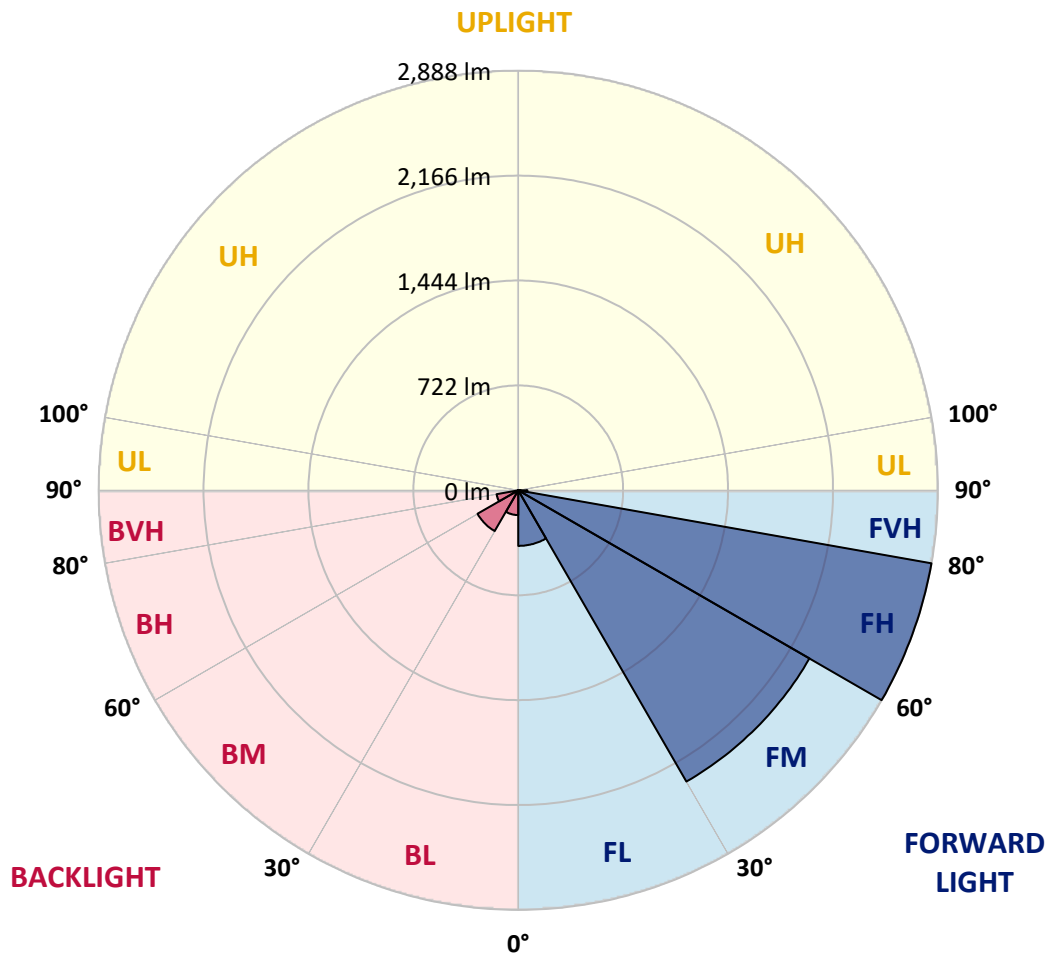
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.4	6.1			
FM (30°-60°)	2314.4	36.8			
FH (60°-80°)	2888.1	45.9			G2/5000
FVH (80°-90°)	63.1	1.0			G1/100
BL (0°-30°)	170.2	2.7	B1/500		
BM (30°-60°)	323.7	5.1	B1/1000		
BH (60°-80°)	151.5	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6
2.5°	700.6	699.7	695.6	693.8	683.8	677.9	675.5	668.1	657.5	646.9	635.1
5°	780.3	780.0	772.3	764.9	746.0	728.3	725.1	708.0	684.0	661.6	639.2
7.5°	861.7	857.9	850.2	836.0	808.6	780.3	777.6	753.4	719.5	687.0	654.8
10°	930.8	928.4	918.4	896.8	864.7	832.5	829.2	799.4	761.1	721.2	680.2
12.5°	984.5	982.7	969.4	942.6	908.3	875.0	870.6	844.0	803.0	758.4	710.0
15°	1017.2	1016.3	1000.1	971.5	937.8	908.9	905.1	881.8	843.7	797.1	742.5
17.5°	1024.9	1025.2	1008.4	979.4	951.7	931.1	928.1	910.4	878.5	832.2	774.9
20°	1007.8	1011.3	996.3	971.2	954.1	943.1	940.8	930.2	903.3	859.6	800.9
22.5°	983.6	985.3	975.0	958.2	951.1	953.2	952.0	946.1	923.4	883.2	826.6
25°	968.8	968.8	962.6	948.5	953.2	965.9	966.2	965.0	947.0	912.2	857.9
27.5°	968.2	966.5	959.4	948.8	961.7	981.2	982.4	990.4	979.2	947.3	896.8
30°	991.8	989.8	974.7	960.9	977.4	998.3	1001.3	1018.7	1013.1	985.3	940.2
32.5°	1047.0	1039.6	1006.3	983.6	996.0	1021.1	1024.9	1052.6	1061.5	1032.3	982.1
35°	1122.6	1099.3	1051.2	1026.7	1027.8	1054.1	1057.6	1098.4	1124.6	1075.4	1014.6
37.5°	1226.7	1215.2	1137.0	1071.5	1076.8	1116.7	1127.0	1171.3	1163.9	1099.0	1051.5
40°	1455.2	1437.2	1353.9	1197.2	1123.8	1167.4	1170.7	1194.3	1194.9	1152.4	1128.2
42.5°	1766.2	1758.8	1671.2	1425.3	1216.1	1201.4	1207.3	1247.1	1291.7	1265.1	1263.9
45°	2110.6	2106.7	2013.8	1728.1	1402.9	1312.6	1320.0	1373.4	1458.7	1464.6	1502.1
47.5°	2387.7	2385.9	2332.5	2066.0	1688.9	1501.2	1503.6	1560.2	1710.1	1784.2	1844.1
50°	2640.3	2648.8	2606.6	2431.6	2078.4	1796.6	1791.0	1828.8	2069.6	2190.8	2265.2
52.5°	2991.5	3003.6	2885.2	2772.8	2487.1	2163.1	2158.7	2198.2	2501.6	2592.5	2605.8
55°	3301.6	3281.0	3187.4	3154.9	2985.6	2615.8	2614.6	2649.4	2919.5	2958.1	2982.6
57.5°	3438.5	3430.6	3475.7	3550.1	3507.6	3150.8	3148.2	3121.6	3293.4	3297.5	3372.7
60°	3525.0	3534.7	3673.1	3902.4	4008.4	3726.6	3709.4	3547.4	3650.4	3641.3	3721.8
62.5°	3460.1	3479.3	3728.3	4110.5	4383.2	4229.1	4204.9	3937.6	3955.6	3924.0	3998.9
65°	3115.4	3145.2	3553.3	4071.2	4569.1	4621.9	4597.4	4281.9	4197.8	4145.9	4104.3
67.5°	2529.6	2547.3	2973.5	3729.8	4485.3	4856.2	4851.2	4583.8	4380.8	4108.4	3785.6
69°	2090.5	2107.9	2518.1	3370.4	4300.8	4906.4	4916.1	4680.6	4346.0	3880.6	3354.1
70°	1770.6	1789.2	2171.4	3062.3	4086.9	4883.1	4900.5	4671.5	4246.2	3616.8	2975.5
72.5°	928.7	944.6	1336.8	2109.7	3331.7	4483.8	4536.6	4276.6	3599.4	2626.7	1759.4
75°	291.9	301.0	522.0	1102.8	2281.1	3486.3	3498.4	3354.7	2555.9	1444.8	732.7
77.5°	111.3	108.6	173.8	406.4	1153.3	2195.3	2269.3	2096.4	1341.2	510.8	169.1
80°	59.9	60.2	90.3	168.2	493.4	1128.2	1190.7	1016.0	476.6	159.4	39.0
82.5°	26.0	27.1	50.8	89.1	226.6	416.1	447.4	372.4	182.1	107.1	14.5
85°	5.6	6.2	24.5	48.4	92.4	116.9	122.5	120.7	116.0	83.2	5.6
87.5°	0.0	0.0	10.9	17.4	23.3	26.6	23.3	30.4	64.0	56.1	3.0
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°	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6
2.5°	631.2	625.9	616.8	606.7	599.6	592.3	586.4	583.7	580.8	578.7	581.4
5°	630.0	619.7	602.0	584.9	572.5	562.5	554.2	551.0	547.7	545.4	545.1
7.5°	640.4	625.9	598.8	573.7	554.5	540.9	529.7	525.0	521.2	519.4	517.9
10°	660.1	641.6	605.3	572.5	547.7	524.7	500.5	481.9	469.8	464.2	462.1
12.5°	685.8	662.5	617.7	578.7	542.7	498.4	447.1	402.8	374.2	364.7	359.1
15°	715.9	687.0	633.9	586.7	524.4	443.5	356.5	298.6	272.1	266.8	260.9
17.5°	744.8	713.0	653.4	588.1	484.3	354.4	261.2	221.9	211.6	215.1	216.0
20°	770.2	738.6	672.5	575.2	411.4	265.9	202.1	192.4	196.2	203.0	204.2
22.5°	795.9	763.4	690.2	540.9	318.1	201.9	182.1	184.4	188.3	195.1	196.2
25°	827.2	793.5	706.8	478.1	238.7	171.7	172.9	176.5	180.3	186.5	187.1
27.5°	863.2	831.6	717.7	396.3	177.1	157.9	161.7	167.0	170.9	176.8	177.9
30°	911.0	881.8	721.2	311.6	148.4	145.5	147.3	153.7	159.4	164.7	165.6
32.5°	955.8	931.3	709.4	235.2	137.5	134.0	134.0	137.8	144.3	149.3	150.5
35°	997.2	981.2	671.7	172.0	129.3	123.4	120.4	120.4	124.5	128.7	129.8
37.5°	1051.7	1051.2	610.6	137.2	121.3	114.5	108.3	103.6	102.1	103.0	103.6
40°	1145.3	1146.2	530.9	123.1	114.5	105.4	95.9	87.4	79.4	76.7	76.4
42.5°	1291.4	1278.1	447.4	116.3	108.6	95.9	81.7	70.2	57.8	54.0	53.7
45°	1523.3	1444.5	358.8	110.1	102.4	85.3	67.6	51.9	41.9	39.0	39.0
47.5°	1861.2	1663.2	278.0	103.3	94.1	73.2	51.1	37.5	30.7	29.2	29.5
50°	2210.6	1877.4	213.1	94.7	84.1	60.5	37.8	27.1	23.3	23.3	23.6
52.5°	2520.5	2034.4	166.1	85.6	71.7	47.5	28.6	21.2	19.5	19.2	19.5
55°	2810.6	2135.7	127.2	75.0	57.0	35.4	21.8	17.4	16.2	15.6	15.3
57.5°	3090.3	2185.8	95.3	60.5	41.3	25.7	17.4	14.8	13.6	12.7	12.4
60°	3276.5	2145.1	65.5	44.6	28.6	18.6	14.5	12.7	11.2	10.3	10.0
62.5°	3381.6	2033.9	42.2	32.2	20.4	13.9	11.5	10.6	8.6	7.7	7.7
65°	3339.1	1850.3	29.5	23.0	14.8	10.3	8.6	8.6	6.2	5.0	4.7
67.5°	2959.0	1563.2	22.4	17.1	10.6	7.7	6.5	7.4	3.8	2.4	2.4
69°	2545.9	1295.5	19.2	14.2	8.9	6.2	5.6	6.8	2.7	1.8	1.5
70°	2212.7	1117.6	17.4	12.4	7.4	5.3	5.0	6.5	2.7	1.5	1.2
72.5°	1323.8	623.3	13.3	8.9	4.7	4.1	4.1	7.4	2.7	1.5	1.2
75°	535.0	219.6	9.7	6.2	3.5	3.5	5.0	9.4	2.4	1.2	0.9
77.5°	121.3	48.1	5.6	3.8	2.4	3.5	5.9	7.4	1.5	0.6	0.0
80°	29.5	11.8	3.5	2.4	1.5	2.7	4.4	4.1	0.3	0.0	0.0
82.5°	9.7	4.1	1.5	1.2	0.3	0.9	2.1	1.2	0.0	0.0	0.0
85°	4.1	2.4	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	0.0	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)