

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: P322866

Luminaire Tested: **GAN-SA2A-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322866
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-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 6910 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

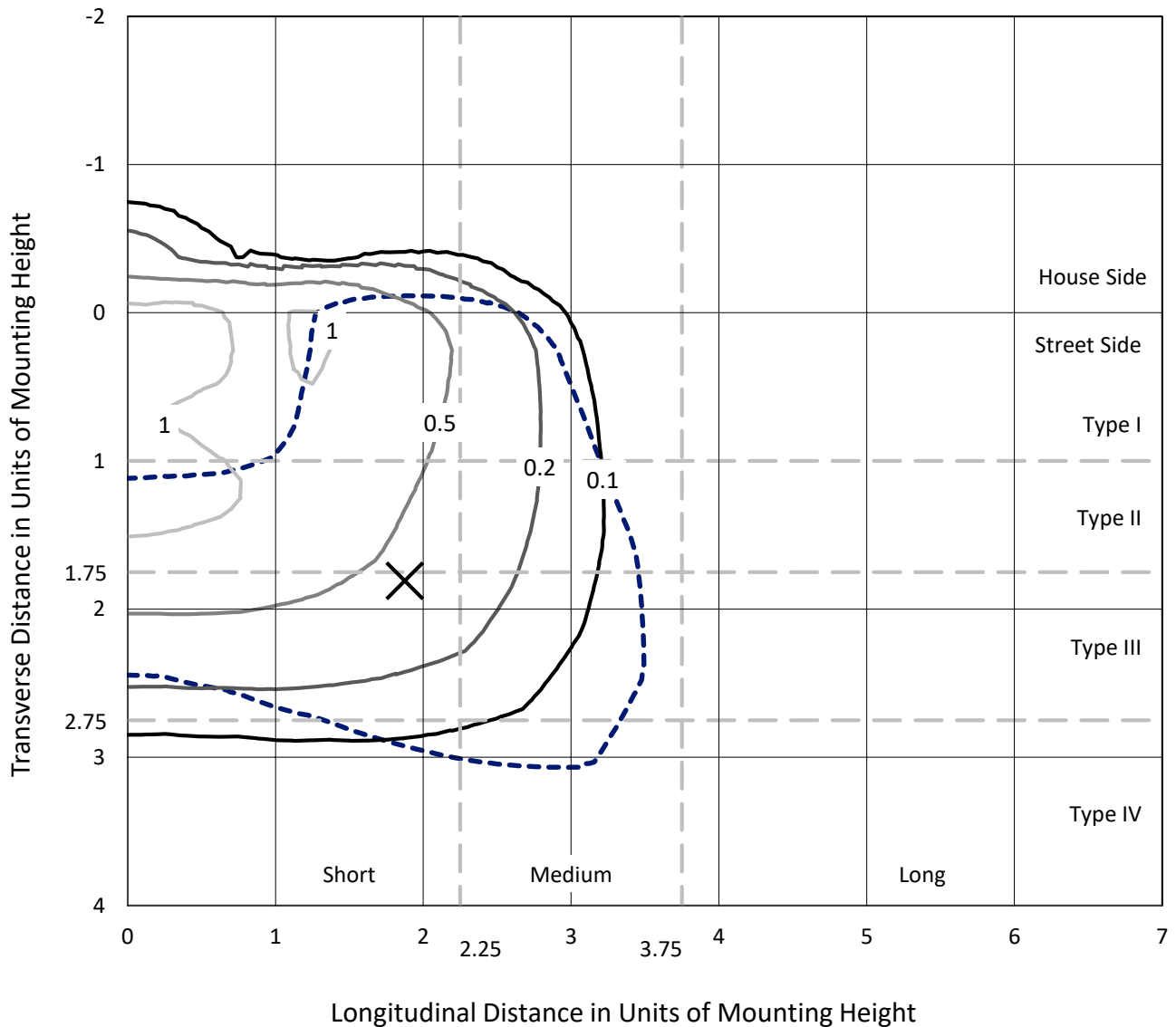
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

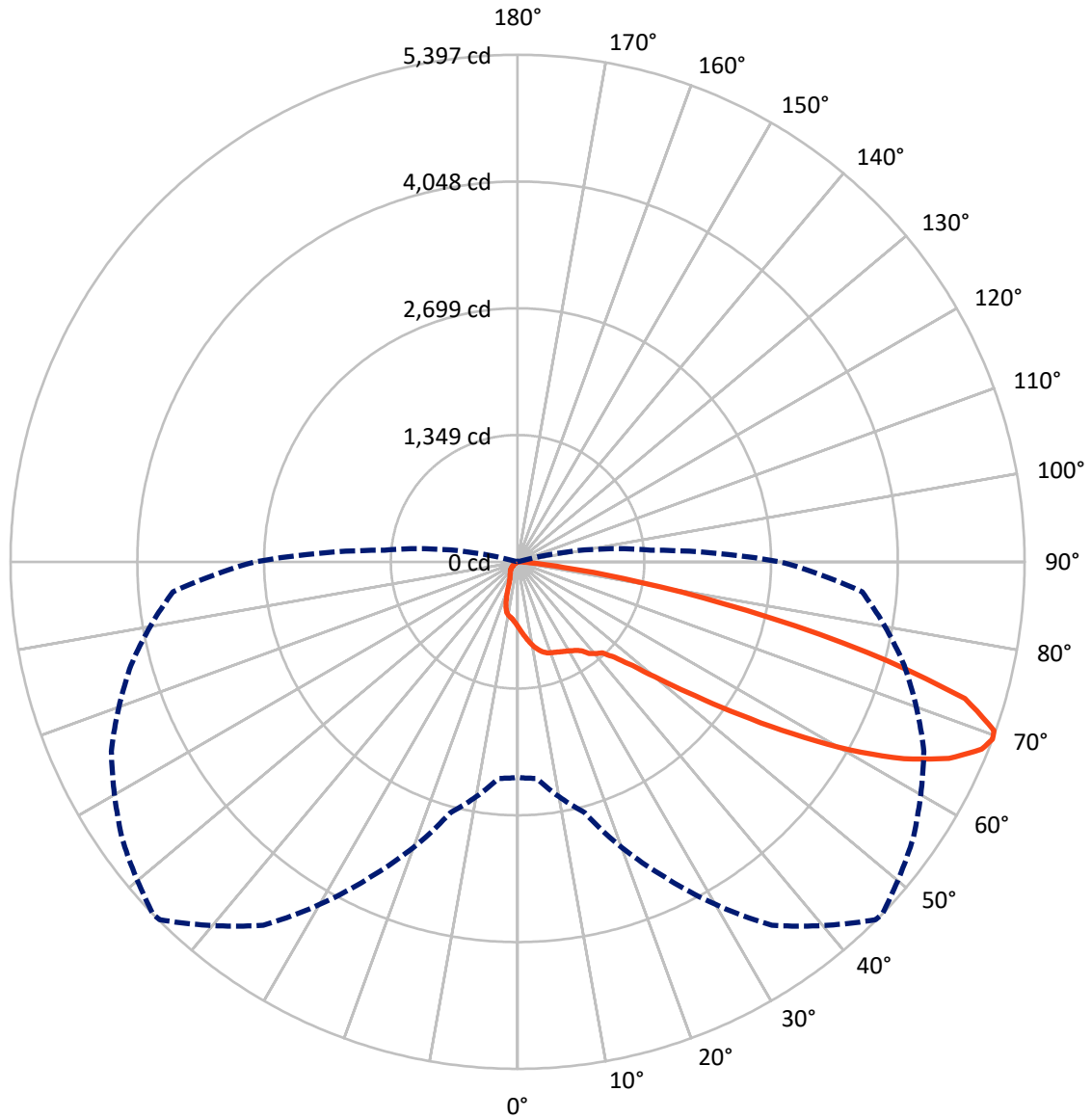
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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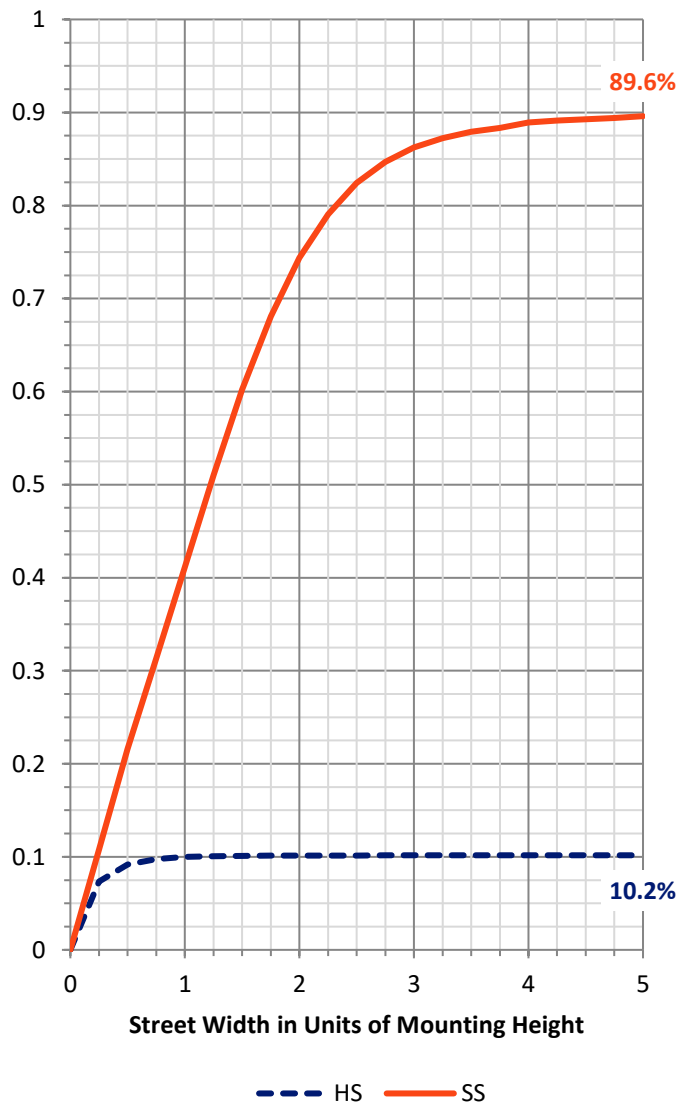
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.1	0.0	709.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6200.8	0.0	6200.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	6910.0	0.0	6910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.0
10°-20°	209.1	3.0
20°-30°	328.8	4.8
30°-40°	471.5	6.8
40°-50°	814.9	11.8
50°-60°	1609.9	23.3
60°-70°	2250.0	32.6
70°-80°	1087.0	15.7
80°-90°	69.9	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°	6910.0	100.0
0°-180°	6910.0	100.0

Coefficient of Utilization

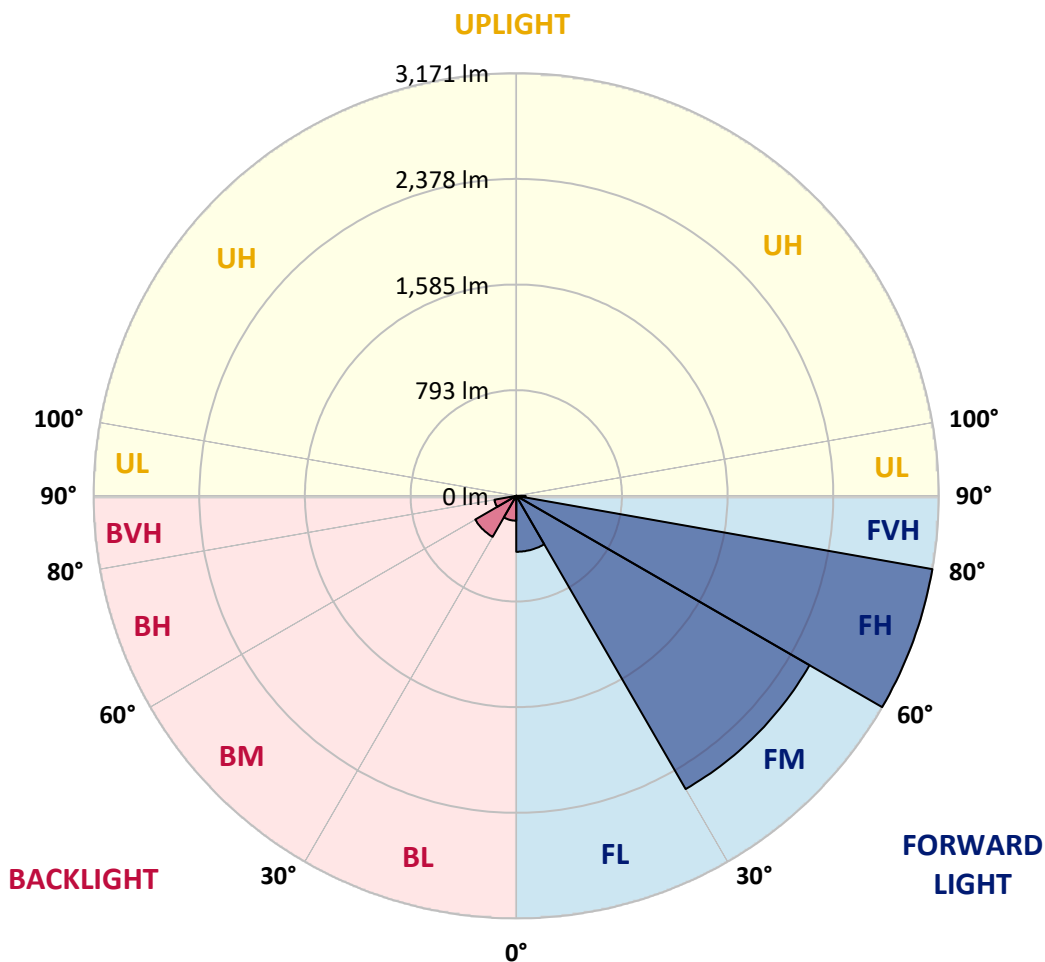


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.9	6.1			
FM (30°-60°)	2541.0	36.8			
FH (60°-80°)	3170.7	45.9			G2/5000
FVH (80°-90°)	69.3	1.0			G1/100
BL (0°-30°)	186.9	2.7	B1/500		
BM (30°-60°)	355.4	5.1	B1/1000		
BH (60°-80°)	166.3	2.4	B1/500		G1/500
BVH (80°-90°)	0.6	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°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
2.5°	769.1	768.2	763.6	761.7	750.7	744.2	741.6	733.5	721.8	710.2	697.2
5°	856.6	856.3	847.9	839.8	819.0	799.6	796.0	777.2	751.0	726.4	701.8
7.5°	946.0	941.8	933.4	917.8	887.7	856.6	853.7	827.1	789.9	754.2	718.9
10°	1021.8	1019.3	1008.2	984.6	949.3	914.0	910.4	877.7	835.6	791.8	746.8
12.5°	1080.8	1078.9	1064.3	1034.8	997.2	960.6	955.8	926.6	881.6	832.6	779.5
15°	1116.8	1115.8	1098.0	1066.6	1029.6	997.9	993.7	968.1	926.3	875.1	815.1
17.5°	1125.2	1125.5	1107.1	1075.3	1044.9	1022.2	1018.9	999.5	964.5	913.6	850.8
20°	1106.4	1110.3	1093.8	1066.2	1047.4	1035.5	1032.9	1021.2	991.7	943.8	879.3
22.5°	1079.8	1081.8	1070.4	1052.0	1044.2	1046.5	1045.2	1038.7	1013.7	969.7	907.5
25°	1063.6	1063.6	1056.8	1041.3	1046.5	1060.4	1060.7	1059.4	1039.7	1001.4	941.8
27.5°	1063.0	1061.1	1053.3	1041.6	1055.9	1077.3	1078.5	1087.3	1075.0	1040.0	984.6
30°	1088.9	1086.6	1070.1	1054.9	1073.0	1096.0	1099.3	1118.4	1112.2	1081.8	1032.2
32.5°	1149.5	1141.4	1104.8	1079.8	1093.4	1121.0	1125.2	1155.7	1165.4	1133.3	1078.2
35°	1232.4	1206.8	1154.0	1127.1	1128.4	1157.3	1161.2	1205.9	1234.7	1180.6	1113.9
37.5°	1346.8	1334.2	1248.3	1176.4	1182.2	1226.0	1237.3	1285.9	1277.8	1206.5	1154.4
40°	1597.6	1577.8	1486.4	1314.4	1233.7	1281.7	1285.2	1311.2	1311.8	1265.2	1238.6
42.5°	1939.1	1931.0	1834.7	1564.8	1335.1	1318.9	1325.4	1369.2	1418.1	1388.9	1387.6
45°	2317.1	2312.9	2210.9	1897.3	1540.2	1441.1	1449.2	1507.8	1601.5	1607.9	1649.1
47.5°	2621.4	2619.4	2560.8	2268.2	1854.2	1648.1	1650.7	1712.9	1877.5	1958.8	2024.6
50°	2898.7	2908.1	2861.8	2669.6	2281.8	1972.4	1966.3	2007.7	2272.1	2405.3	2486.9
52.5°	3284.2	3297.5	3167.6	3044.2	2730.5	2374.8	2370.0	2413.4	2746.4	2846.2	2860.8
55°	3624.7	3602.1	3499.4	3463.7	3277.8	2871.8	2870.5	2908.7	3205.2	3247.6	3274.5
57.5°	3775.1	3766.3	3815.9	3897.5	3850.9	3459.2	3456.3	3427.1	3615.7	3620.2	3702.8
60°	3870.0	3880.7	4032.6	4284.4	4400.7	4091.3	4072.5	3894.6	4007.7	3997.7	4086.1
62.5°	3798.7	3819.8	4093.2	4512.8	4812.2	4643.0	4616.5	4322.9	4342.7	4308.0	4390.3
65°	3420.3	3453.0	3901.1	4469.7	5016.3	5074.3	5047.4	4701.0	4608.7	4551.7	4506.0
67.5°	2777.2	2796.6	3264.5	4094.8	4924.2	5331.5	5326.0	5032.5	4809.6	4510.5	4156.1
69°	2295.1	2314.2	2764.6	3700.2	4721.8	5386.6	5397.3	5138.7	4771.3	4260.4	3682.4
70°	1943.9	1964.3	2383.9	3362.0	4486.9	5361.0	5380.1	5128.7	4661.8	3970.8	3266.7
72.5°	1019.6	1037.1	1467.7	2316.2	3657.8	4922.6	4980.6	4695.2	3951.6	2883.8	1931.6
75°	320.4	330.5	573.1	1210.7	2504.4	3827.6	3840.8	3683.1	2806.0	1586.2	804.5
77.5°	122.1	119.2	190.8	446.1	1266.1	2410.1	2491.4	2301.6	1472.5	560.8	185.6
80°	65.8	66.1	99.1	184.7	541.7	1238.6	1307.3	1115.5	523.2	175.0	42.8
82.5°	28.5	29.8	55.7	97.8	248.8	456.8	491.2	408.9	199.9	117.6	15.9
85°	6.2	6.8	26.9	53.1	101.4	128.3	134.5	132.5	127.3	91.4	6.2
87.5°	0.0	0.0	12.0	19.1	25.6	29.2	25.6	33.4	70.3	61.6	3.2
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°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
2.5°	693.0	687.2	677.1	666.1	658.3	650.2	643.8	640.8	637.6	635.3	638.3
5°	691.7	680.4	660.9	642.1	628.5	617.5	608.4	604.9	601.3	598.7	598.4
7.5°	703.0	687.2	657.4	629.8	608.8	593.9	581.6	576.4	572.2	570.2	568.6
10°	724.8	704.3	664.5	628.5	601.3	576.0	549.5	529.1	515.8	509.6	507.4
12.5°	752.9	727.3	678.1	635.3	595.8	547.2	490.8	442.2	410.8	400.4	394.3
15°	786.0	754.2	695.9	644.1	575.7	486.9	391.4	327.9	298.7	292.9	286.4
17.5°	817.7	782.7	717.3	645.7	531.7	389.1	286.7	243.6	232.3	236.2	237.2
20°	845.6	810.9	738.4	631.4	451.6	291.9	221.9	211.2	215.5	222.9	224.2
22.5°	873.8	838.1	757.8	593.9	349.3	221.6	199.9	202.5	206.7	214.2	215.5
25°	908.1	871.2	775.9	524.9	262.1	188.6	189.9	193.7	198.0	204.8	205.4
27.5°	947.7	913.0	787.9	435.1	194.4	173.3	177.5	183.4	187.6	194.1	195.4
30°	1000.1	968.1	791.8	342.1	163.0	159.7	161.7	168.8	175.0	180.8	181.8
32.5°	1049.4	1022.5	778.9	258.2	151.0	147.1	147.1	151.3	158.4	163.9	165.2
35°	1094.7	1077.3	737.4	188.9	141.9	135.4	132.2	132.2	136.7	141.3	142.6
37.5°	1154.7	1154.0	670.3	150.7	133.2	125.7	118.9	113.7	112.1	113.1	113.7
40°	1257.4	1258.4	582.8	135.1	125.7	115.7	105.3	95.9	87.2	84.2	83.9
42.5°	1417.8	1403.2	491.2	127.7	119.2	105.3	89.7	77.1	63.5	59.3	59.0
45°	1672.4	1585.9	394.0	120.8	112.4	93.6	74.2	57.0	46.0	42.8	42.8
47.5°	2043.4	1826.0	305.2	113.4	103.4	80.3	56.0	41.1	33.7	32.1	32.4
50°	2427.0	2061.2	233.9	104.0	92.3	66.4	41.5	29.8	25.6	25.6	25.9
52.5°	2767.2	2233.6	182.4	94.0	78.7	52.2	31.4	23.3	21.4	21.1	21.4
55°	3085.6	2344.7	139.6	82.3	62.5	38.9	24.0	19.1	17.8	17.2	16.8
57.5°	3392.8	2399.8	104.6	66.4	45.4	28.2	19.1	16.2	14.9	13.9	13.6
60°	3597.2	2355.0	71.9	48.9	31.4	20.4	15.9	13.9	12.3	11.3	11.0
62.5°	3712.5	2232.9	46.3	35.3	22.4	15.2	12.6	11.7	9.4	8.4	8.4
65°	3665.9	2031.4	32.4	25.3	16.2	11.3	9.4	9.4	6.8	5.5	5.2
67.5°	3248.6	1716.1	24.6	18.8	11.7	8.4	7.1	8.1	4.2	2.6	2.6
69°	2795.0	1422.3	21.1	15.6	9.7	6.8	6.2	7.5	2.9	1.9	1.6
70°	2429.2	1226.9	19.1	13.6	8.1	5.8	5.5	7.1	2.9	1.6	1.3
72.5°	1453.4	684.3	14.6	9.7	5.2	4.5	4.5	8.1	2.9	1.6	1.3
75°	587.4	241.0	10.7	6.8	3.9	3.9	5.5	10.4	2.6	1.3	1.0
77.5°	133.2	52.8	6.2	4.2	2.6	3.9	6.5	8.1	1.6	0.6	0.0
80°	32.4	13.0	3.9	2.6	1.6	2.9	4.9	4.5	0.3	0.0	0.0
82.5°	10.7	4.5	1.6	1.3	0.3	1.0	2.3	1.3	0.0	0.0	0.0
85°	4.5	2.6	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.9	1.0	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)