

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: P322906

Luminaire Tested: **GAN-SA2A-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322906
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-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 6911 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

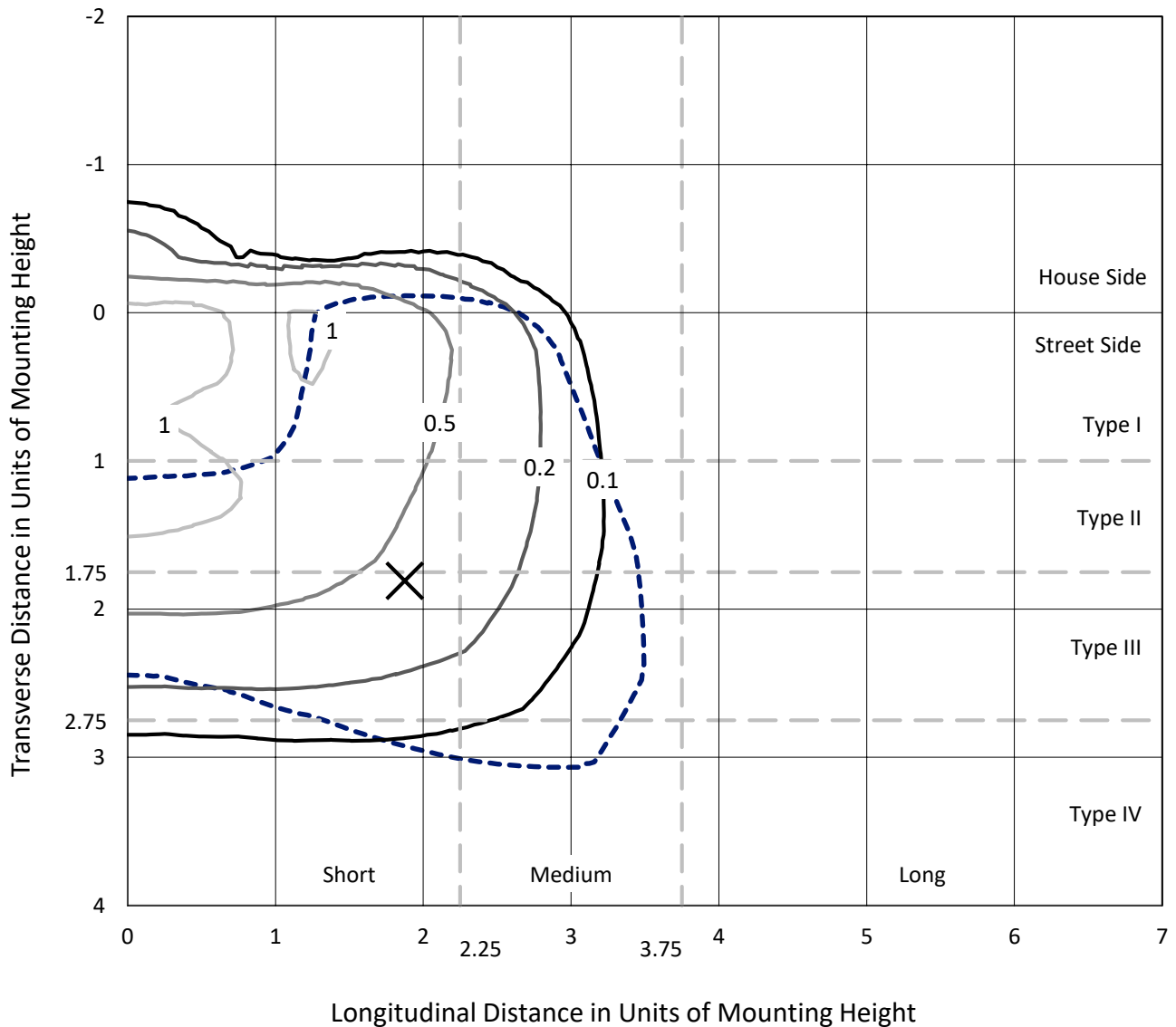
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

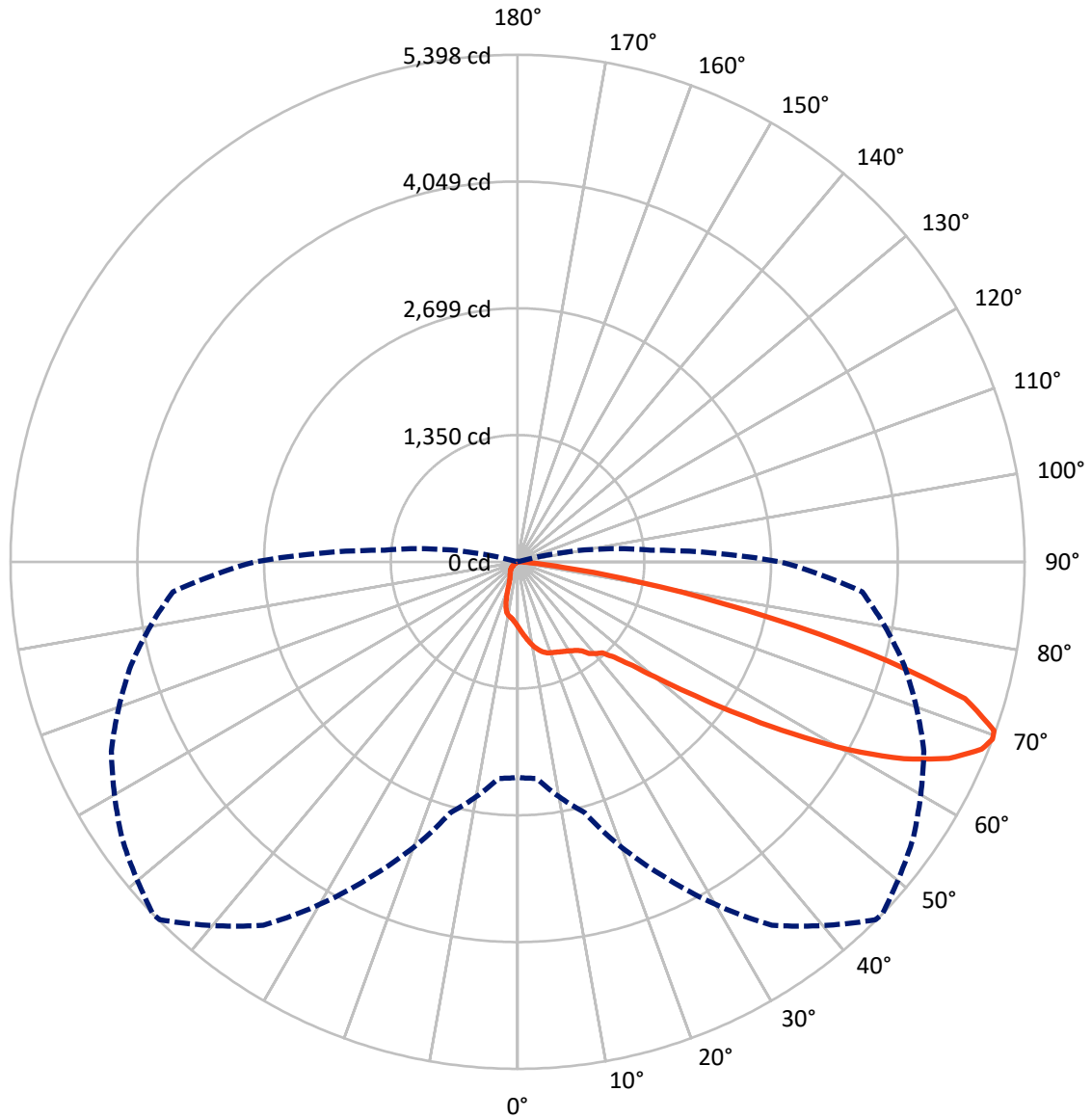
✕ Max cd
 - - - 1/2 Max cd



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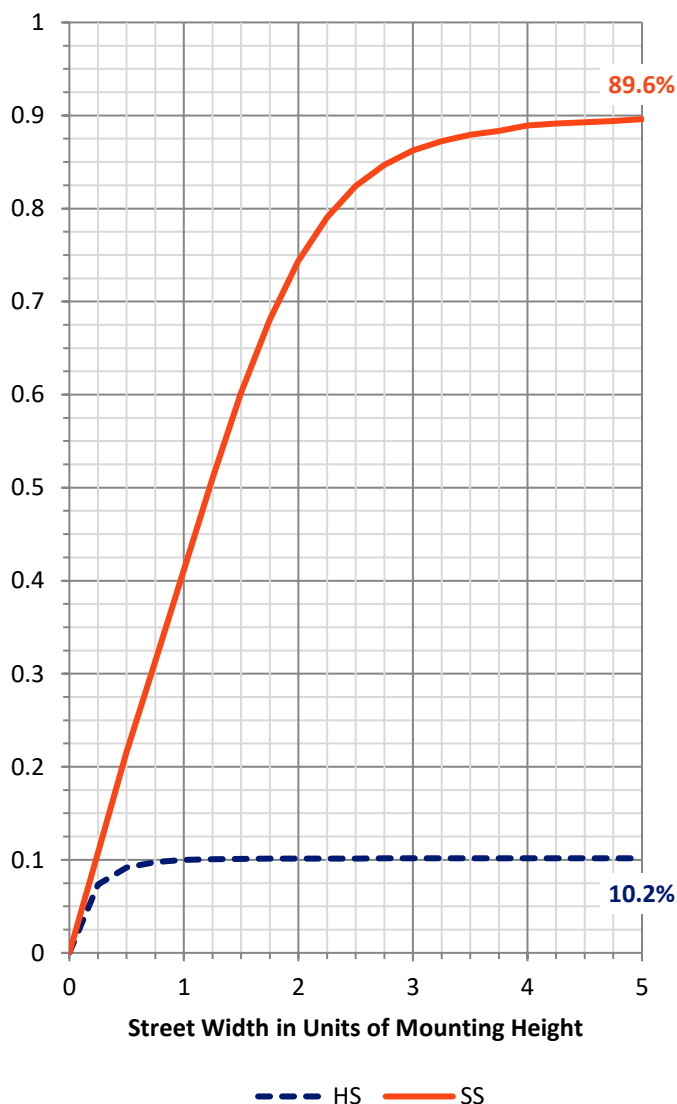
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.2	0.0	709.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6201.7	0.0	6201.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	6911.0	0.0	6911.0
	% 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°	471.6	6.8
40°-50°	815.0	11.8
50°-60°	1610.2	23.3
60°-70°	2250.3	32.6
70°-80°	1087.2	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°	6911.0	100.0
0°-180°	6911.0	100.0

Coefficient of Utilization



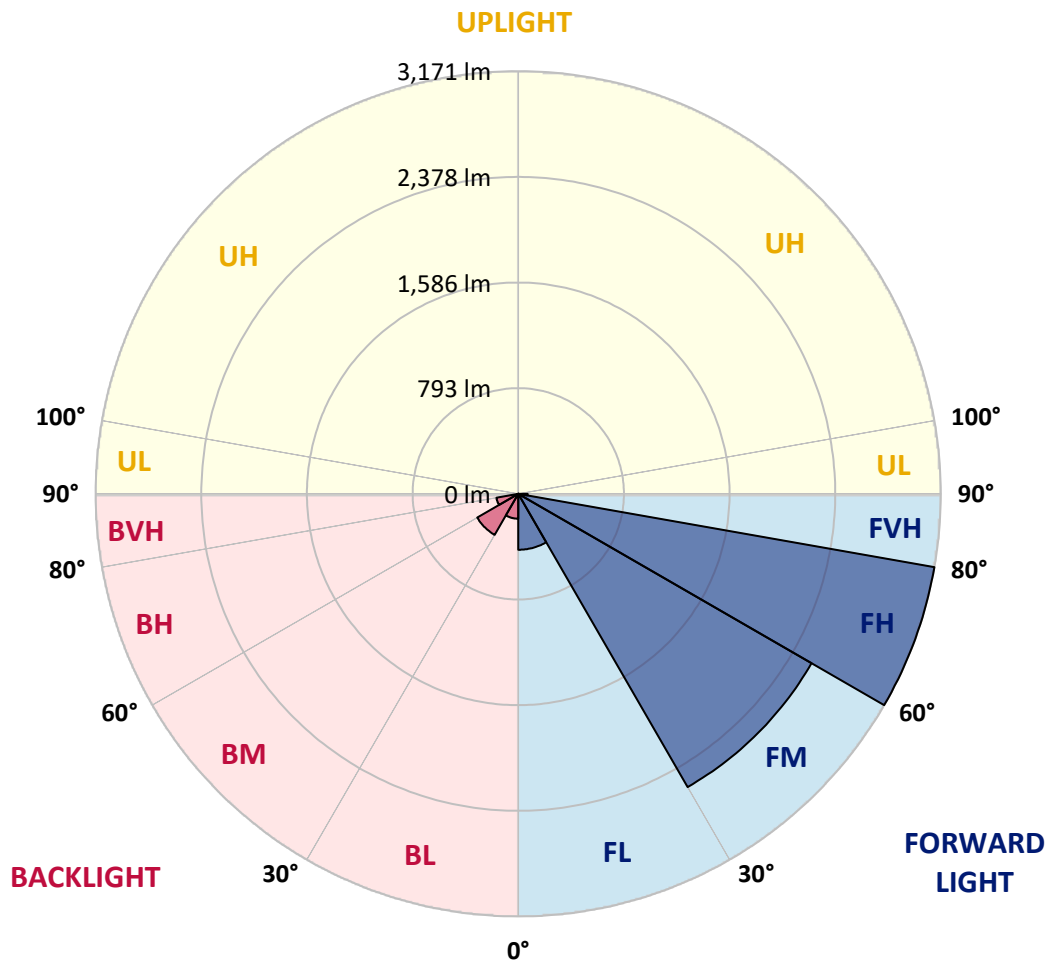
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.9	6.1			
FM (30°-60°)	2541.3	36.8			
FH (60°-80°)	3171.2	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°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	769.3	768.3	763.7	761.8	750.8	744.3	741.7	733.6	721.9	710.3	697.3
5°	856.7	856.4	848.0	839.9	819.2	799.7	796.1	777.4	751.1	726.5	701.9
7.5°	946.2	942.0	933.5	918.0	887.8	856.7	853.8	827.3	790.0	754.3	719.0
10°	1022.0	1019.4	1008.4	984.7	949.4	914.1	910.5	877.8	835.7	791.9	746.9
12.5°	1081.0	1079.0	1064.4	1035.0	997.4	960.8	955.9	926.7	881.7	832.8	779.6
15°	1116.9	1116.0	1098.1	1066.7	1029.8	998.0	993.8	968.2	926.4	875.2	815.3
17.5°	1125.4	1125.7	1107.2	1075.5	1045.0	1022.3	1019.1	999.6	964.6	913.8	850.9
20°	1106.6	1110.5	1093.9	1066.4	1047.6	1035.6	1033.0	1021.3	991.9	943.9	879.4
22.5°	1080.0	1081.9	1070.6	1052.1	1044.4	1046.6	1045.3	1038.8	1013.9	969.8	907.6
25°	1063.8	1063.8	1057.0	1041.4	1046.6	1060.6	1060.9	1059.6	1039.8	1001.6	942.0
27.5°	1063.1	1061.2	1053.4	1041.8	1056.0	1077.4	1078.7	1087.5	1075.1	1040.1	984.7
30°	1089.1	1086.8	1070.3	1055.0	1073.2	1096.2	1099.4	1118.6	1112.4	1081.9	1032.4
32.5°	1149.7	1141.6	1104.9	1080.0	1093.6	1121.2	1125.4	1155.8	1165.5	1133.5	1078.4
35°	1232.6	1207.0	1154.2	1127.3	1128.6	1157.4	1161.3	1206.0	1234.9	1180.8	1114.0
37.5°	1347.0	1334.4	1248.5	1176.6	1182.4	1226.1	1237.5	1286.1	1278.0	1206.7	1154.5
40°	1597.8	1578.0	1486.7	1314.6	1233.9	1281.9	1285.4	1311.4	1312.0	1265.3	1238.8
42.5°	1939.3	1931.2	1835.0	1565.1	1335.3	1319.1	1325.6	1369.4	1418.3	1389.1	1387.8
45°	2317.5	2313.3	2211.2	1897.5	1540.4	1441.3	1449.4	1508.0	1601.7	1608.2	1649.3
47.5°	2621.7	2619.8	2561.1	2268.5	1854.4	1648.4	1650.9	1713.2	1877.8	1959.1	2024.9
50°	2899.1	2908.5	2862.2	2670.0	2282.2	1972.7	1966.6	2008.0	2272.4	2405.6	2487.3
52.5°	3284.7	3298.0	3168.1	3044.6	2730.9	2375.2	2370.3	2413.7	2746.8	2846.6	2861.2
55°	3625.3	3602.6	3499.9	3464.2	3278.2	2872.2	2870.9	2909.2	3205.6	3248.1	3275.0
57.5°	3775.6	3766.9	3816.4	3898.1	3851.4	3459.7	3456.8	3427.6	3616.2	3620.7	3703.4
60°	3870.6	3881.3	4033.2	4285.0	4401.3	4091.9	4073.1	3895.2	4008.3	3998.2	4086.7
62.5°	3799.3	3820.3	4093.8	4513.4	4812.8	4643.7	4617.1	4323.6	4343.3	4308.7	4391.0
65°	3420.8	3453.5	3901.7	4470.3	5017.0	5075.0	5048.1	4701.7	4609.4	4552.3	4506.6
67.5°	2777.6	2797.0	3264.9	4095.4	4925.0	5332.3	5326.8	5033.2	4810.3	4511.2	4156.7
69°	2295.4	2314.6	2765.0	3700.8	4722.4	5387.4	5398.0	5139.5	4772.0	4261.0	3682.9
70°	1944.2	1964.6	2384.2	3362.5	4487.5	5361.8	5380.9	5129.4	4662.5	3971.3	3267.2
72.5°	1019.7	1037.2	1467.9	2316.5	3658.3	4923.3	4981.3	4695.9	3952.2	2884.2	1931.9
75°	320.5	330.5	573.2	1210.9	2504.8	3828.1	3841.4	3683.6	2806.4	1586.5	804.6
77.5°	122.2	119.2	190.9	446.2	1266.3	2410.5	2491.8	2301.9	1472.7	560.9	185.7
80°	65.8	66.1	99.2	184.7	541.8	1238.8	1307.5	1115.6	523.3	175.0	42.8
82.5°	28.5	29.8	55.7	97.9	248.9	456.9	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°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	693.1	687.3	677.2	666.2	658.4	650.3	643.9	640.9	637.7	635.4	638.3
5°	691.8	680.5	661.0	642.2	628.6	617.6	608.5	605.0	601.4	598.8	598.5
7.5°	703.1	687.3	657.5	629.9	608.9	594.0	581.6	576.5	572.2	570.3	568.7
10°	724.9	704.4	664.6	628.6	601.4	576.1	549.6	529.1	515.9	509.7	507.4
12.5°	753.1	727.5	678.2	635.4	595.9	547.3	490.9	442.3	410.9	400.5	394.3
15°	786.1	754.3	696.0	644.2	575.8	487.0	391.4	327.9	298.8	292.9	286.4
17.5°	817.9	782.9	717.4	645.8	531.7	389.2	286.8	243.7	232.3	236.2	237.2
20°	845.7	811.1	738.5	631.5	451.7	292.0	222.0	211.3	215.5	222.9	224.2
22.5°	873.9	838.3	757.9	594.0	349.3	221.6	199.9	202.5	206.7	214.2	215.5
25°	908.3	871.3	776.1	524.9	262.1	188.6	189.9	193.8	198.0	204.8	205.4
27.5°	947.8	913.1	788.0	435.2	194.4	173.4	177.6	183.4	187.6	194.1	195.4
30°	1000.3	968.2	791.9	342.2	163.0	159.7	161.7	168.8	175.0	180.8	181.8
32.5°	1049.5	1022.6	779.0	258.3	151.0	147.1	147.1	151.3	158.5	164.0	165.3
35°	1094.9	1077.4	737.5	188.9	141.9	135.4	132.2	132.2	136.7	141.3	142.6
37.5°	1154.9	1154.2	670.4	150.7	133.2	125.7	118.9	113.7	112.1	113.1	113.7
40°	1257.6	1258.5	582.9	135.1	125.7	115.7	105.3	95.9	87.2	84.2	83.9
42.5°	1418.0	1403.4	491.2	127.7	119.2	105.3	89.8	77.1	63.5	59.3	59.0
45°	1672.7	1586.1	394.0	120.9	112.4	93.6	74.2	57.0	46.0	42.8	42.8
47.5°	2043.7	1826.2	305.2	113.4	103.4	80.4	56.1	41.2	33.7	32.1	32.4
50°	2427.3	2061.5	234.0	104.0	92.3	66.4	41.5	29.8	25.6	25.6	25.9
52.5°	2767.6	2233.9	182.4	94.0	78.7	52.2	31.4	23.3	21.4	21.1	21.4
55°	3086.1	2345.0	139.7	82.3	62.5	38.9	24.0	19.1	17.8	17.2	16.8
57.5°	3393.3	2400.1	104.7	66.4	45.4	28.2	19.1	16.2	14.9	13.9	13.6
60°	3597.7	2355.4	71.9	48.9	31.4	20.4	15.9	13.9	12.3	11.3	11.0
62.5°	3713.1	2233.2	46.3	35.3	22.4	15.2	12.6	11.7	9.4	8.4	8.4
65°	3666.4	2031.7	32.4	25.3	16.2	11.3	9.4	9.4	6.8	5.5	5.2
67.5°	3249.1	1716.4	24.6	18.8	11.7	8.4	7.1	8.1	4.2	2.6	2.6
69°	2795.4	1422.5	21.1	15.6	9.7	6.8	6.2	7.5	2.9	1.9	1.6
70°	2429.6	1227.1	19.1	13.6	8.1	5.8	5.5	7.1	2.9	1.6	1.3
72.5°	1453.6	684.4	14.6	9.7	5.2	4.5	4.5	8.1	2.9	1.6	1.3
75°	587.5	241.1	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)