

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: P382846

Luminaire Tested: **GAN-SA2A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6307.5 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

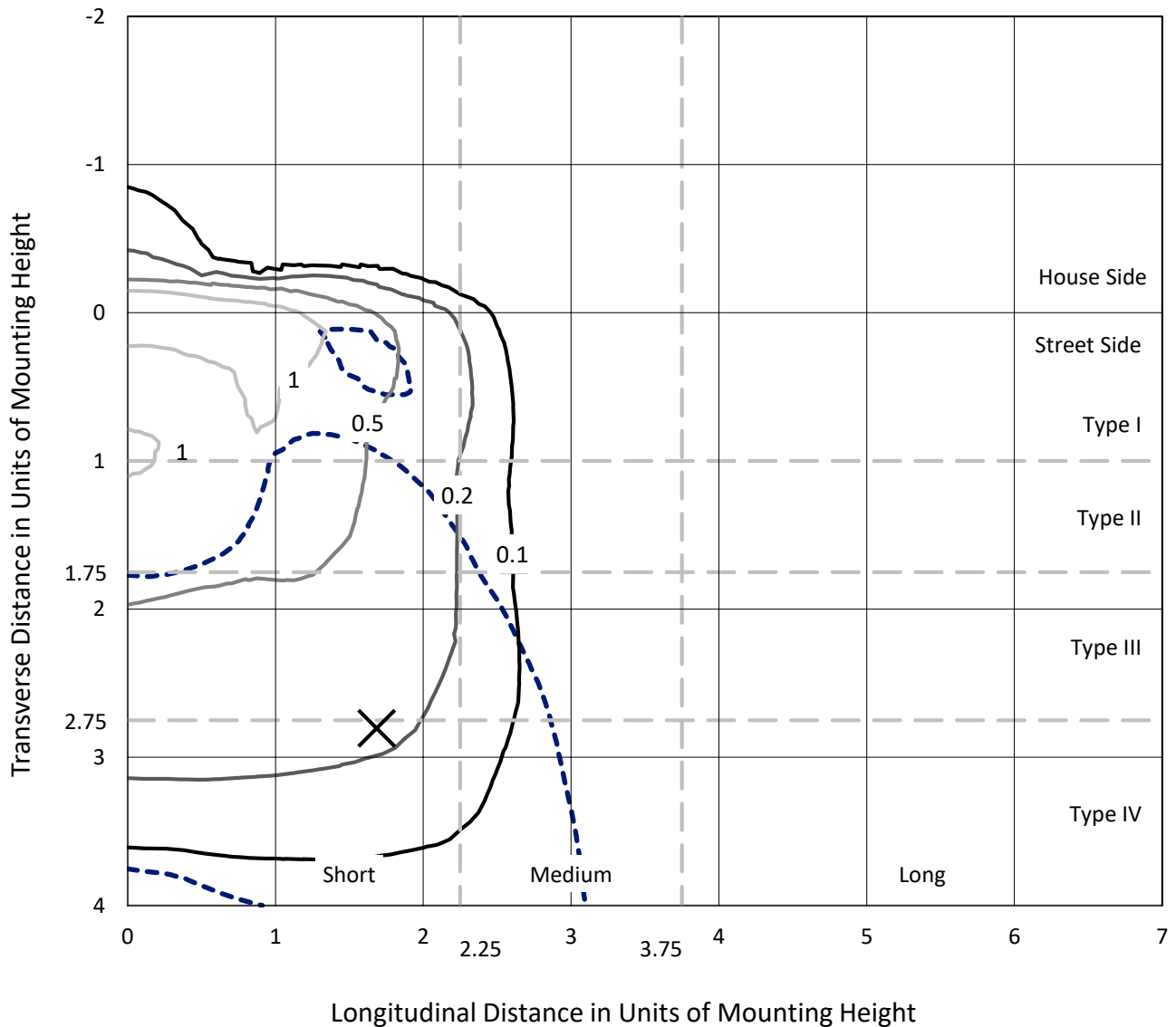
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

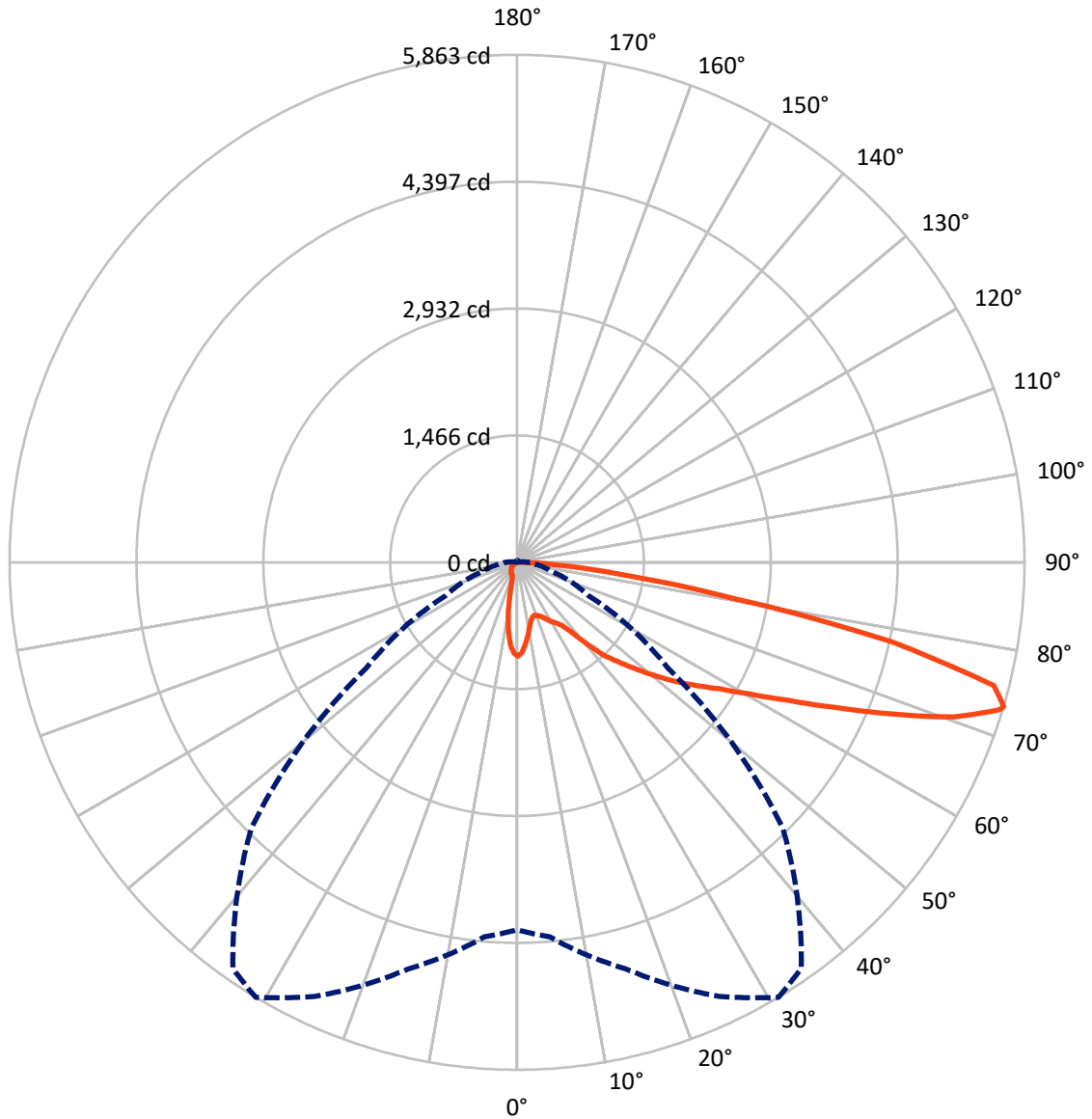
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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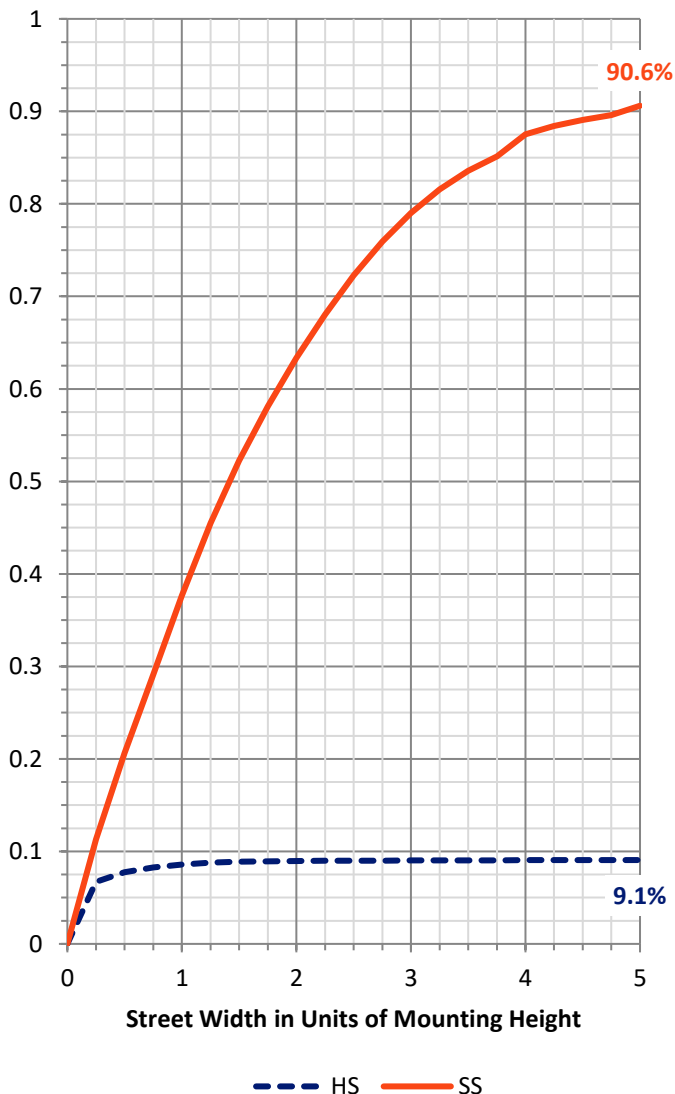
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.0	0.0	575.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5732.6	0.0	5732.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	6307.5	0.0	6307.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.4
10°-20°	195.4	3.1
20°-30°	292.7	4.6
30°-40°	465.7	7.4
40°-50°	831.7	13.2
50°-60°	1290.5	20.5
60°-70°	1715.5	27.2
70°-80°	1290.4	20.5
80°-90°	135.6	2.1
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°	6307.5	100.0
0°-180°	6307.5	100.0

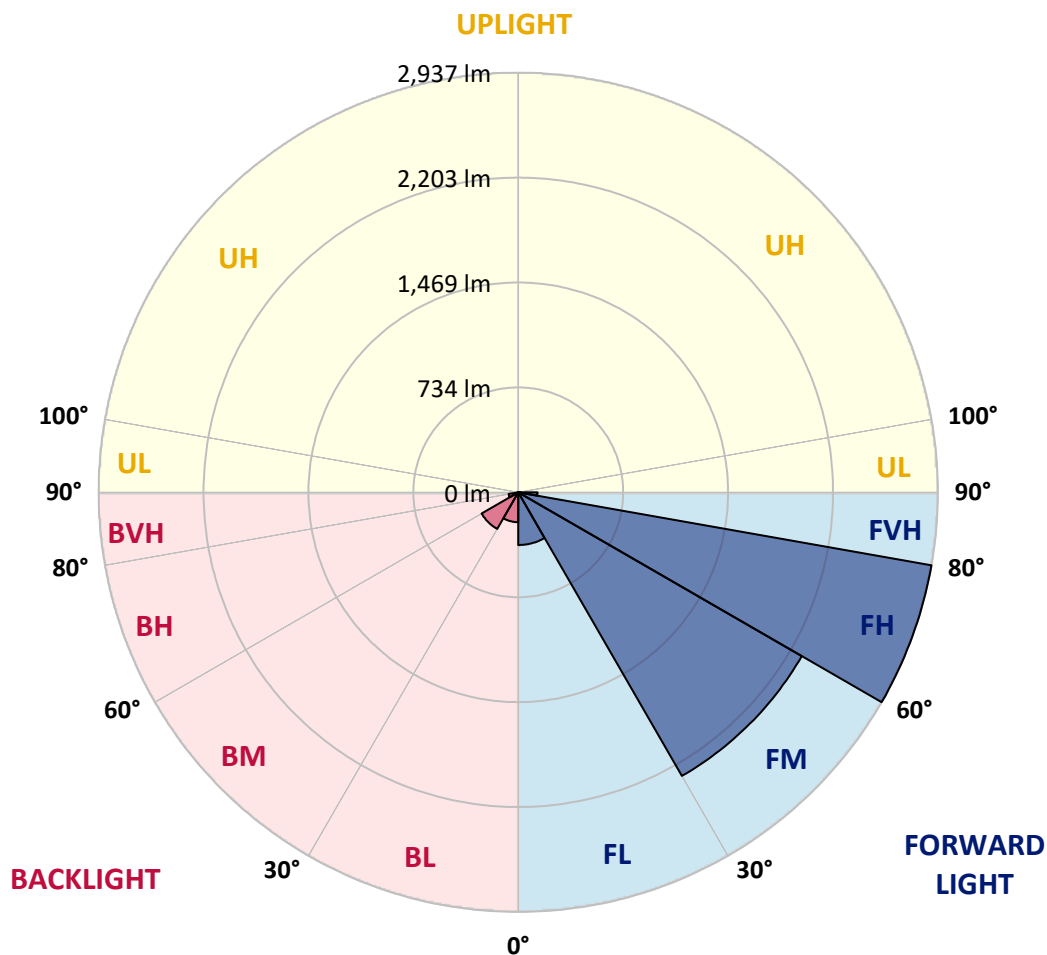


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.0	5.9			
FM (30°-60°)	2291.9	36.3			
FH (60°-80°)	2937.2	46.6			G2/5000
FVH (80°-90°)	134.5	2.1			G2/225
BL (0°-30°)	209.1	3.3	B1/500		
BM (30°-60°)	295.9	4.7	B1/1000		
BH (60°-80°)	68.8	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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°	31°	35°	45°	55°	65°	75°	85°
0°	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1028.4	1032.7	1037.4	1038.3	1046.0	1046.3	1057.4	1065.8	1074.1	1082.2	1084.9
5°	922.9	930.0	938.3	946.6	963.0	969.5	996.7	1024.4	1051.0	1076.3	1088.6
7.5°	810.2	818.3	830.0	850.7	868.9	881.5	924.4	973.8	1023.2	1069.8	1096.6
10°	707.4	714.9	727.2	749.1	777.2	794.4	852.2	920.7	993.2	1063.9	1108.6
12.5°	642.0	646.0	652.8	676.2	701.5	721.0	788.9	873.8	968.5	1063.6	1128.1
15°	629.9	631.2	625.6	636.2	655.9	674.7	743.6	835.8	949.7	1068.6	1153.4
17.5°	649.1	648.5	629.9	628.7	644.4	659.9	721.3	809.6	936.5	1079.9	1186.1
20°	678.1	675.9	643.9	638.0	654.7	669.1	719.8	799.7	931.5	1099.1	1226.0
22.5°	716.7	713.0	662.7	656.5	674.4	689.5	738.9	809.3	935.8	1124.8	1272.3
25°	764.5	758.9	695.1	688.3	706.5	721.7	773.2	836.7	948.8	1155.9	1330.9
27.5°	818.6	810.5	746.9	729.3	750.0	765.7	818.8	878.7	969.2	1188.9	1402.8
30°	869.5	859.0	801.6	772.5	797.9	815.5	868.2	928.8	1001.9	1239.9	1501.3
32.5°	920.7	909.0	850.3	815.8	838.6	857.8	919.2	997.6	1063.3	1317.7	1632.2
35°	1038.6	1026.3	954.4	897.3	897.0	907.7	990.4	1091.7	1144.5	1426.0	1788.3
37.5°	1237.1	1230.0	1161.5	1053.1	1024.1	1012.0	1087.7	1204.0	1261.1	1575.1	1964.5
40°	1454.3	1448.2	1371.3	1273.1	1229.1	1199.5	1227.2	1360.5	1426.0	1757.2	2144.5
42.5°	1699.7	1670.5	1533.4	1504.1	1464.6	1442.0	1417.0	1553.4	1628.4	1955.3	2322.9
45°	1922.6	1873.2	1695.4	1651.0	1642.0	1647.6	1661.5	1812.7	1856.2	2190.8	2500.7
47.5°	2055.3	2016.4	1880.0	1837.4	1835.0	1871.7	1976.7	2105.6	2083.1	2396.0	2657.1
50°	2181.6	2146.4	2033.1	2043.6	2055.0	2105.0	2334.4	2406.8	2290.2	2582.2	2800.7
52.5°	2283.7	2230.0	2170.8	2229.7	2285.8	2366.4	2703.4	2677.3	2437.1	2730.4	2923.6
55°	2342.7	2318.2	2347.0	2406.3	2511.8	2642.7	3051.9	2902.2	2544.5	2865.5	3005.4
57.5°	2558.7	2510.9	2568.0	2619.2	2756.9	2939.9	3350.4	3069.8	2622.0	2949.2	3024.2
60°	2820.2	2781.6	2815.2	2900.4	3086.2	3301.3	3629.4	3206.6	2662.5	3002.8	2975.4
62.5°	3236.2	3185.2	3164.3	3259.7	3506.0	3740.8	3841.1	3301.3	2653.5	2979.1	2808.2
65°	3793.6	3740.8	3647.0	3733.5	4046.7	4212.5	4077.9	3321.4	2591.8	2786.8	2385.2
67.5°	4364.7	4326.4	4246.1	4391.8	4674.5	4727.9	4328.2	3272.6	2393.0	2259.7	1685.3
70°	4741.9	4725.5	4777.6	5099.9	5352.0	5336.6	4557.9	3010.6	1865.1	1389.6	833.6
72.5°	4469.9	4548.3	4933.5	5517.7	5825.8	5699.9	4439.9	2311.8	1066.1	534.6	241.1
73°	4244.6	4344.9	4863.4	5533.5	5863.2	5725.2	4340.9	2122.0	908.6	421.9	182.7
75°	2952.9	3076.1	4026.3	5153.6	5688.5	5454.8	3618.3	1298.8	421.0	187.1	73.8
77.5°	1433.7	1524.8	2217.1	3723.6	4423.9	4261.8	2252.6	483.9	190.1	117.0	33.9
80°	535.2	595.1	962.4	1895.1	2556.5	2623.5	990.8	183.0	126.5	94.2	17.3
82.5°	140.1	156.2	354.9	845.1	1310.2	1371.3	312.3	92.3	92.6	77.5	10.5
85°	44.7	51.2	110.8	379.3	617.3	542.0	81.5	44.7	67.3	57.8	5.9
87.5°	5.6	7.1	35.2	89.2	136.1	75.6	12.7	13.2	28.7	32.1	3.4
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°	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1087.7	1086.2	1086.5	1078.5	1073.1	1062.7	1051.9	1047.0	1041.7	1039.5	1041.7
5°	1093.3	1090.5	1082.5	1057.8	1031.5	997.6	965.7	941.7	911.4	903.1	911.8
7.5°	1101.9	1096.3	1072.9	1022.6	964.2	899.4	826.6	773.5	730.0	701.8	712.1
10°	1114.5	1104.1	1056.8	971.3	867.0	752.2	648.8	568.2	511.1	487.7	486.7
12.5°	1135.8	1116.1	1037.1	904.6	748.1	595.1	459.6	372.2	325.9	296.0	295.4
15°	1159.3	1130.2	1012.0	824.7	609.9	426.3	296.0	229.6	199.7	190.1	188.9
17.5°	1188.0	1146.6	979.6	726.2	465.1	282.4	193.2	174.1	172.8	172.0	172.0
20°	1224.1	1166.1	938.0	613.6	330.0	188.5	164.2	165.4	166.1	164.8	165.2
22.5°	1266.1	1185.9	888.3	492.6	223.2	157.7	157.1	158.6	159.3	158.6	158.9
25°	1314.9	1208.7	827.8	365.7	161.2	149.7	151.3	153.4	154.9	154.9	154.9
27.5°	1375.3	1236.4	754.9	255.2	139.2	141.4	145.7	149.7	151.8	152.5	152.5
30°	1454.1	1271.0	667.6	175.0	126.5	130.2	138.2	146.0	150.0	150.6	150.9
32.5°	1553.4	1309.9	566.4	129.3	115.7	118.5	127.2	140.1	147.8	149.0	149.0
35°	1667.4	1354.9	457.4	112.6	108.1	109.0	115.7	130.6	144.1	147.6	147.8
37.5°	1792.0	1399.5	347.8	105.3	101.5	101.5	106.5	119.1	135.2	145.7	146.9
40°	1908.4	1426.3	243.9	99.4	95.7	95.7	100.0	109.3	124.4	140.1	143.6
42.5°	2015.8	1435.5	169.7	93.8	90.1	91.0	94.7	102.2	113.6	129.3	132.4
45°	2126.3	1434.0	123.8	87.4	84.6	87.4	90.1	95.7	104.1	113.0	113.6
47.5°	2209.6	1421.1	98.2	81.1	79.4	83.0	85.5	89.2	93.8	93.2	93.2
50°	2287.7	1389.6	79.0	72.8	74.1	78.4	79.6	80.9	81.1	75.3	74.7
52.5°	2347.0	1340.5	63.3	63.9	68.8	73.1	71.9	70.1	67.0	59.9	58.7
55°	2366.8	1246.0	49.7	52.8	61.1	66.7	62.0	58.0	52.2	46.3	45.1
57.5°	2330.9	1124.1	40.4	41.1	51.5	56.2	51.0	46.3	39.8	34.8	33.9
60°	2255.0	988.7	33.3	30.8	39.8	43.8	40.4	35.8	29.9	26.3	25.9
62.5°	2104.4	844.2	27.5	24.0	30.3	33.6	31.5	28.1	23.1	20.7	20.4
65°	1787.7	675.4	22.3	19.5	23.5	26.3	24.4	21.9	18.2	16.4	16.0
67.5°	1247.9	456.5	18.2	16.0	18.5	20.7	19.1	17.9	14.5	14.2	14.5
70°	601.9	220.0	15.1	12.9	14.5	16.0	15.5	14.5	13.9	16.0	18.5
72.5°	172.5	73.8	12.0	10.8	11.7	12.7	13.2	12.9	15.1	19.5	22.5
73°	132.7	59.5	11.5	10.2	11.1	12.4	12.9	12.7	15.5	19.7	22.5
75°	56.8	28.7	8.7	8.3	9.2	10.8	11.5	11.5	15.5	20.0	21.6
77.5°	25.6	15.5	5.6	6.5	8.0	8.7	9.6	9.6	12.4	15.5	15.5
80°	14.5	8.3	4.3	4.9	5.9	5.9	5.9	5.2	5.6	6.1	6.8
82.5°	9.2	5.6	3.4	4.0	3.7	3.1	2.5	2.5	2.1	2.5	3.1
85°	5.2	3.1	3.1	2.5	1.6	1.2	1.6	1.2	0.3	0.0	0.3
87.5°	3.1	1.9	0.9	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)