

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: P322595

Luminaire Tested: **GAN-SA1B-750-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322595  
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-SA1B-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4249 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

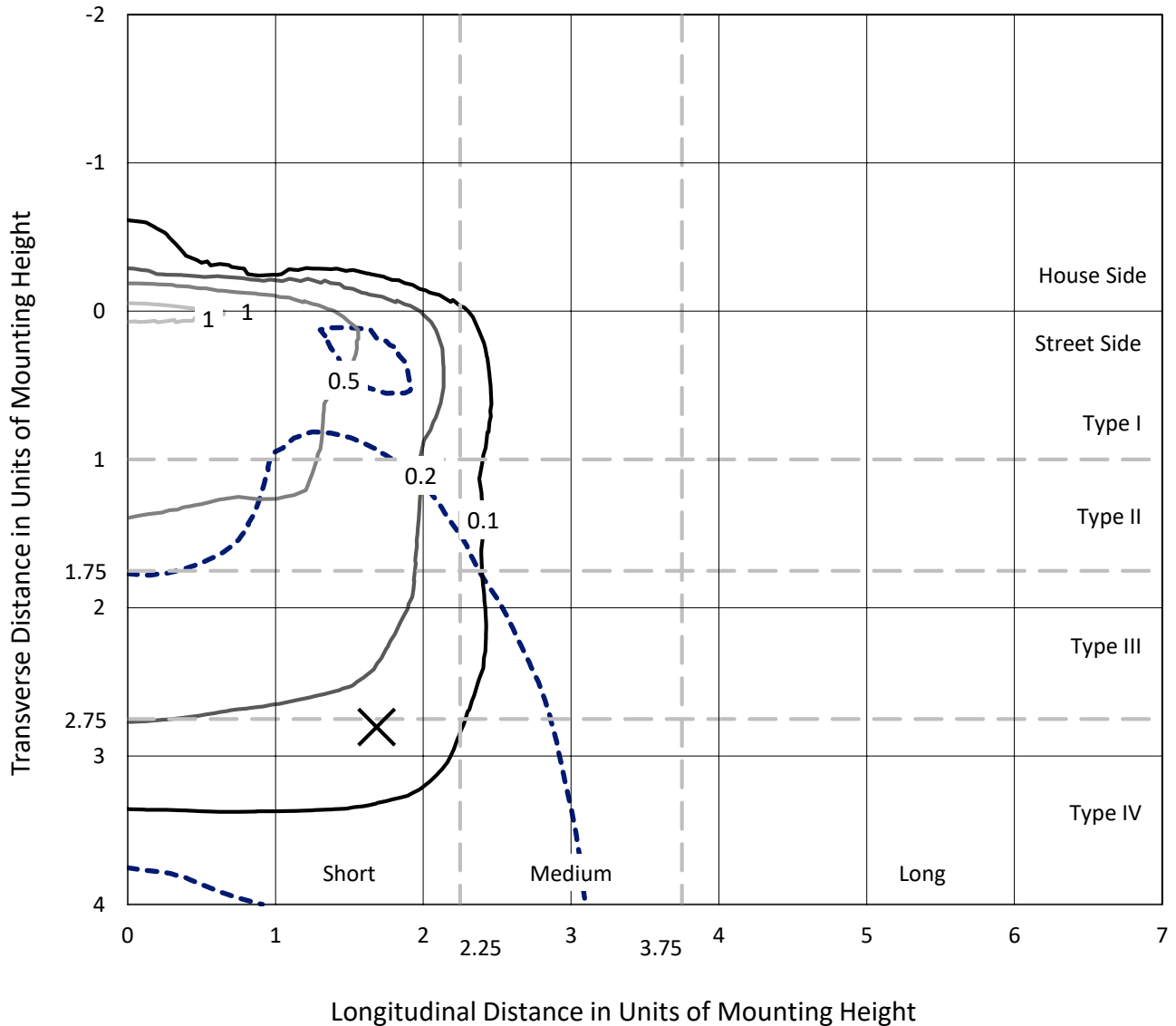
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

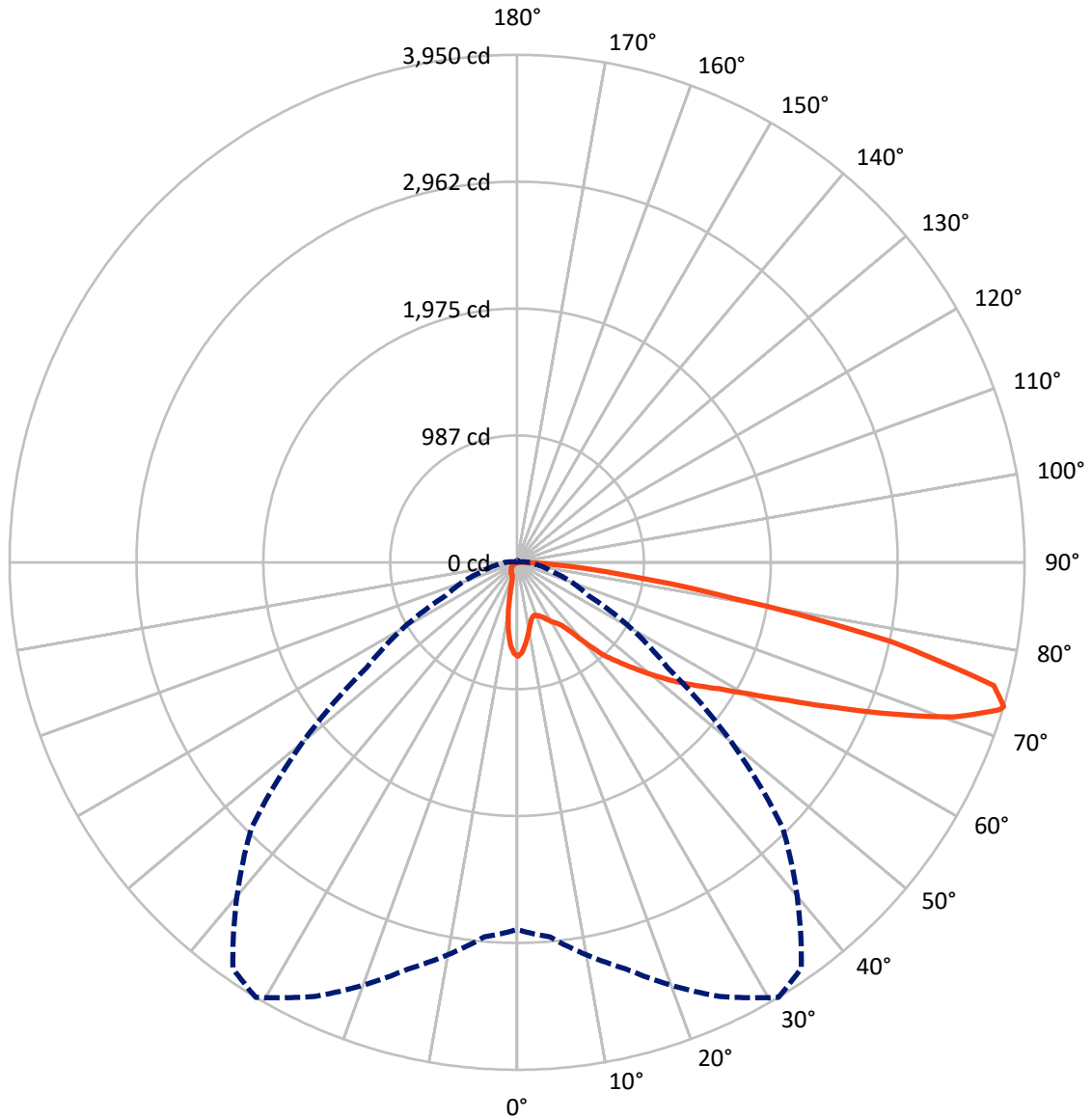
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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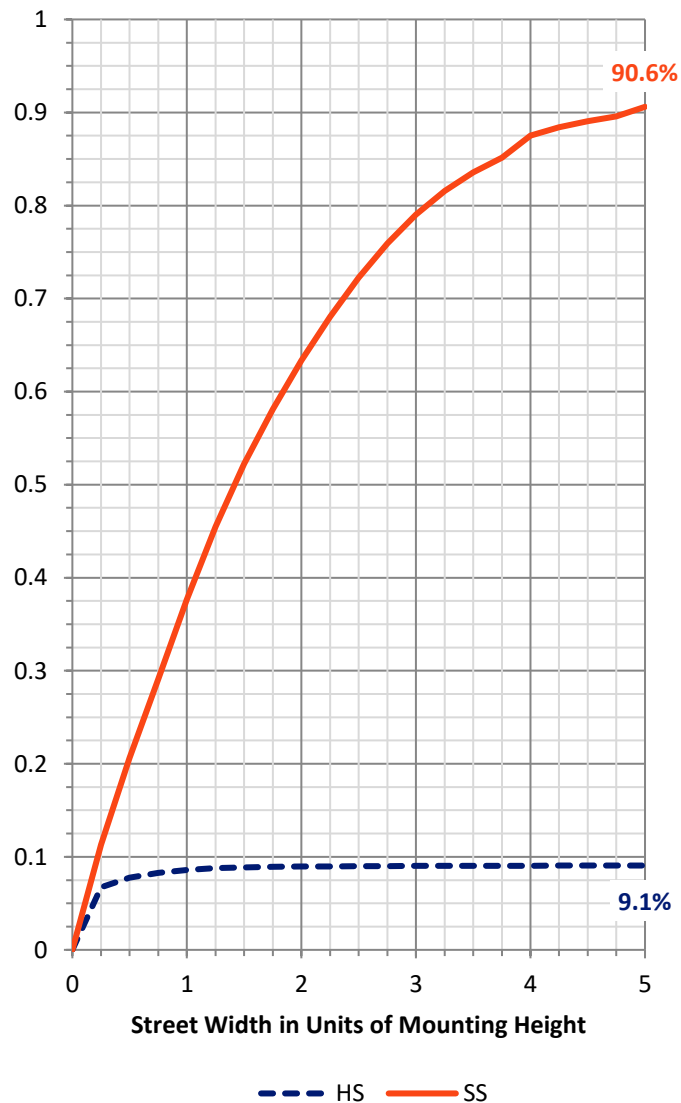
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	387.3	0.0	387.3
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	3861.7	0.0	3861.7
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	4249.0	0.0	4249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	1.4
10°-20°	131.6	3.1
20°-30°	197.2	4.6
30°-40°	313.7	7.4
40°-50°	560.2	13.2
50°-60°	869.3	20.5
60°-70°	1155.7	27.2
70°-80°	869.3	20.5
80°-90°	91.3	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°	4249.0	100.0
0°-180°	4249.0	100.0

**Coefficient of Utilization**



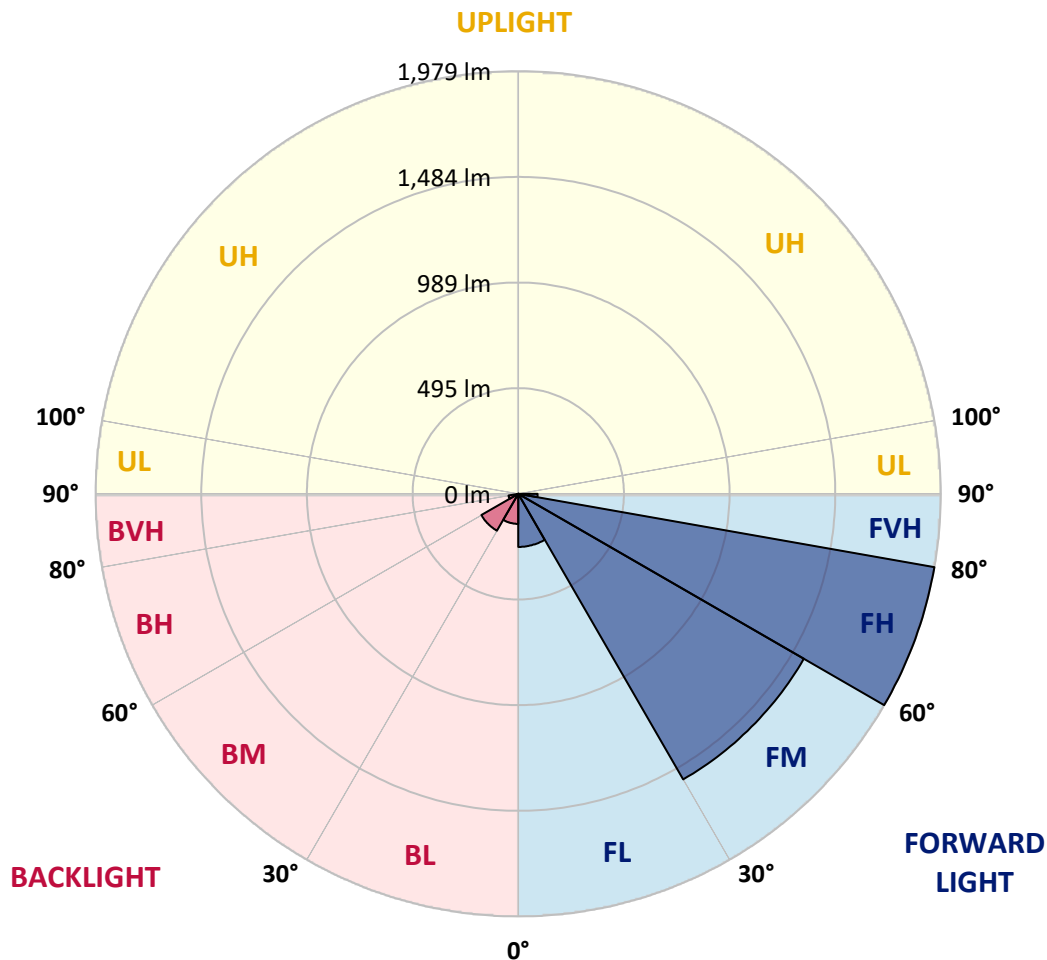
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 CATALOG NUMBER: GAN-SA1B-750-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.6	5.9			
FM (30°-60°)	1543.9	36.3			
FH (60°-80°)	1978.6	46.6			G2/5000
FVH (80°-90°)	90.6	2.1			G1/100
BL (0°-30°)	140.8	3.3	B1/500		
BM (30°-60°)	199.4	4.7	B0/220		
BH (60°-80°)	46.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	692.8	695.7	698.8	699.4	704.6	704.9	712.3	718.0	723.6	729.0	730.8
5°	621.7	626.5	632.1	637.7	648.7	653.1	671.4	690.1	708.0	725.0	733.3
7.5°	545.8	551.2	559.1	573.0	585.3	593.8	622.7	656.0	689.3	720.7	738.7
10°	476.6	481.5	489.9	504.6	523.5	535.2	574.1	620.2	669.1	716.7	746.9
12.5°	432.5	435.2	439.8	455.6	472.6	485.7	531.4	588.6	652.5	716.5	760.0
15°	424.4	425.2	421.5	428.5	441.8	454.5	500.9	563.0	639.8	719.8	777.0
17.5°	437.3	436.8	424.4	423.5	434.1	444.5	485.9	545.4	630.8	727.5	799.0
20°	456.8	455.3	433.7	429.8	441.0	450.8	484.9	538.7	627.5	740.4	825.9
22.5°	482.8	480.3	446.4	442.2	454.3	464.5	497.8	545.2	630.4	757.7	857.0
25°	515.0	511.3	468.2	463.7	475.9	486.1	520.8	563.7	639.1	778.7	896.6
27.5°	551.4	546.0	503.2	491.3	505.2	515.9	551.6	592.0	652.9	800.9	945.0
30°	585.7	578.6	540.0	520.4	537.5	549.3	584.9	625.6	674.9	835.2	1011.3
32.5°	620.2	612.3	572.8	549.5	564.9	577.8	619.2	672.0	716.3	887.6	1099.5
35°	699.7	691.3	642.9	604.4	604.2	611.5	667.2	735.4	771.0	960.6	1204.7
37.5°	833.3	828.6	782.4	709.4	689.9	681.8	732.7	811.1	849.6	1061.0	1323.4
40°	979.7	975.6	923.8	857.7	827.9	808.0	826.7	916.5	960.6	1183.7	1444.6
42.5°	1145.0	1125.3	1033.0	1013.2	986.6	971.4	954.6	1046.5	1097.0	1317.2	1564.8
45°	1295.1	1261.9	1142.1	1112.2	1106.1	1109.9	1119.2	1221.1	1250.4	1475.8	1684.6
47.5°	1384.5	1358.3	1266.4	1237.8	1236.1	1260.8	1331.5	1418.4	1403.3	1614.1	1790.0
50°	1469.6	1445.9	1369.6	1376.6	1384.3	1418.0	1572.5	1621.4	1542.8	1739.5	1886.7
52.5°	1538.4	1502.2	1462.3	1502.0	1539.9	1594.1	1821.2	1803.5	1641.7	1839.3	1969.4
55°	1578.1	1561.7	1581.0	1620.9	1692.1	1780.2	2055.9	1955.1	1714.1	1930.3	2024.5
57.5°	1723.7	1691.4	1729.9	1764.4	1857.1	1980.4	2257.0	2068.0	1766.3	1986.7	2037.2
60°	1899.8	1873.8	1896.4	1953.8	2079.0	2223.9	2444.9	2160.1	1793.5	2022.9	2004.4
62.5°	2180.0	2145.7	2131.6	2195.9	2361.8	2520.0	2587.6	2223.9	1787.5	2006.9	1891.7
65°	2555.6	2520.0	2456.8	2515.0	2726.0	2837.7	2747.0	2237.4	1745.9	1877.3	1606.8
67.5°	2940.2	2914.4	2860.4	2958.5	3149.0	3184.9	2915.7	2204.6	1612.0	1522.2	1135.2
70°	3194.3	3183.3	3218.4	3435.5	3605.3	3594.9	3070.4	2028.1	1256.5	936.1	561.6
72.5°	3011.1	3063.9	3323.4	3717.0	3924.5	3839.7	2990.9	1557.3	718.2	360.1	162.4
73°	2859.3	2926.9	3276.2	3727.6	3949.7	3856.7	2924.2	1429.5	612.1	284.2	123.1
75°	1989.2	2072.1	2712.3	3471.7	3832.0	3674.6	2437.5	874.9	283.6	126.0	49.7
77.5°	965.8	1027.1	1493.5	2508.4	2980.1	2871.0	1517.4	326.0	128.1	78.8	22.9
80°	360.5	400.9	648.3	1276.6	1722.2	1767.3	667.4	123.3	85.2	63.4	11.6
82.5°	94.4	105.2	239.1	569.3	882.6	923.8	210.4	62.2	62.4	52.2	7.1
85°	30.1	34.5	74.6	255.5	415.8	365.1	54.9	30.1	45.3	38.9	4.0
87.5°	3.7	4.8	23.7	60.1	91.7	50.9	8.5	8.9	19.3	21.6	2.3
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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	732.7	731.7	731.9	726.5	722.9	715.9	708.6	705.3	701.7	700.3	701.7
5°	736.5	734.6	729.2	712.5	694.9	672.0	650.6	634.4	614.0	608.4	614.2
7.5°	742.3	738.5	722.7	688.8	649.5	605.9	556.8	521.0	491.7	472.8	479.7
10°	750.8	743.7	711.9	654.3	584.0	506.7	437.0	382.8	344.3	328.5	327.9
12.5°	765.1	751.8	698.6	609.4	504.0	400.9	309.6	250.8	219.6	199.4	199.0
15°	781.0	761.4	681.8	555.6	410.9	287.1	199.4	154.7	134.5	128.1	127.2
17.5°	800.3	772.4	659.9	489.2	313.3	190.2	130.2	117.3	116.4	115.8	115.8
20°	824.6	785.5	631.9	413.3	222.3	127.0	110.6	111.4	111.9	111.0	111.2
22.5°	852.9	798.8	598.4	331.8	150.3	106.2	105.8	106.9	107.3	106.9	107.1
25°	885.7	814.2	557.6	246.4	108.5	100.8	101.9	103.3	104.4	104.4	104.4
27.5°	926.5	832.9	508.6	172.0	93.8	95.2	98.1	100.8	102.3	102.7	102.7
30°	979.5	856.2	449.7	117.9	85.2	87.7	93.1	98.3	101.0	101.5	101.7
32.5°	1046.5	882.4	381.5	87.1	78.0	79.8	85.7	94.4	99.6	100.4	100.4
35°	1123.2	912.8	308.1	75.9	72.8	73.4	78.0	88.0	97.1	99.4	99.6
37.5°	1207.2	942.7	234.3	70.9	68.4	68.4	71.7	80.3	91.1	98.1	99.0
40°	1285.6	960.8	164.3	67.0	64.5	64.5	67.4	73.6	83.8	94.4	96.7
42.5°	1357.9	967.0	114.4	63.2	60.7	61.3	63.8	68.8	76.5	87.1	89.2
45°	1432.4	966.0	83.4	58.8	57.0	58.8	60.7	64.5	70.1	76.1	76.5
47.5°	1488.5	957.3	66.1	54.7	53.4	55.9	57.6	60.1	63.2	62.8	62.8
50°	1541.1	936.1	53.2	49.1	49.9	52.8	53.6	54.5	54.7	50.7	50.3
52.5°	1581.0	903.0	42.6	43.0	46.4	49.3	48.4	47.2	45.1	40.3	39.5
55°	1594.3	839.4	33.5	35.6	41.2	44.9	41.8	39.1	35.1	31.2	30.4
57.5°	1570.2	757.2	27.2	27.7	34.7	37.8	34.3	31.2	26.8	23.5	22.9
60°	1519.1	666.0	22.5	20.8	26.8	29.5	27.2	24.1	20.2	17.7	17.5
62.5°	1417.6	568.7	18.5	16.2	20.4	22.7	21.2	18.9	15.6	13.9	13.7
65°	1204.3	454.9	15.0	13.1	15.8	17.7	16.4	14.8	12.3	11.0	10.8
67.5°	840.6	307.5	12.3	10.8	12.5	13.9	12.9	12.1	9.8	9.6	9.8
70°	405.4	148.2	10.2	8.7	9.8	10.8	10.4	9.8	9.4	10.8	12.5
72.5°	116.2	49.7	8.1	7.3	7.9	8.5	8.9	8.7	10.2	13.1	15.2
73°	89.4	40.1	7.7	6.9	7.5	8.3	8.7	8.5	10.4	13.3	15.2
75°	38.3	19.3	5.8	5.6	6.2	7.3	7.7	7.7	10.4	13.5	14.6
77.5°	17.3	10.4	3.7	4.4	5.4	5.8	6.4	6.4	8.3	10.4	10.4
80°	9.8	5.6	2.9	3.3	4.0	4.0	4.0	3.5	3.7	4.2	4.6
82.5°	6.2	3.7	2.3	2.7	2.5	2.1	1.7	1.7	1.5	1.7	2.1
85°	3.5	2.1	2.1	1.7	1.0	0.8	1.0	0.8	0.2	0.0	0.2
87.5°	2.1	1.2	0.6	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)