

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: P321306

Luminaire Tested: **GAN-SA2A-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7696 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

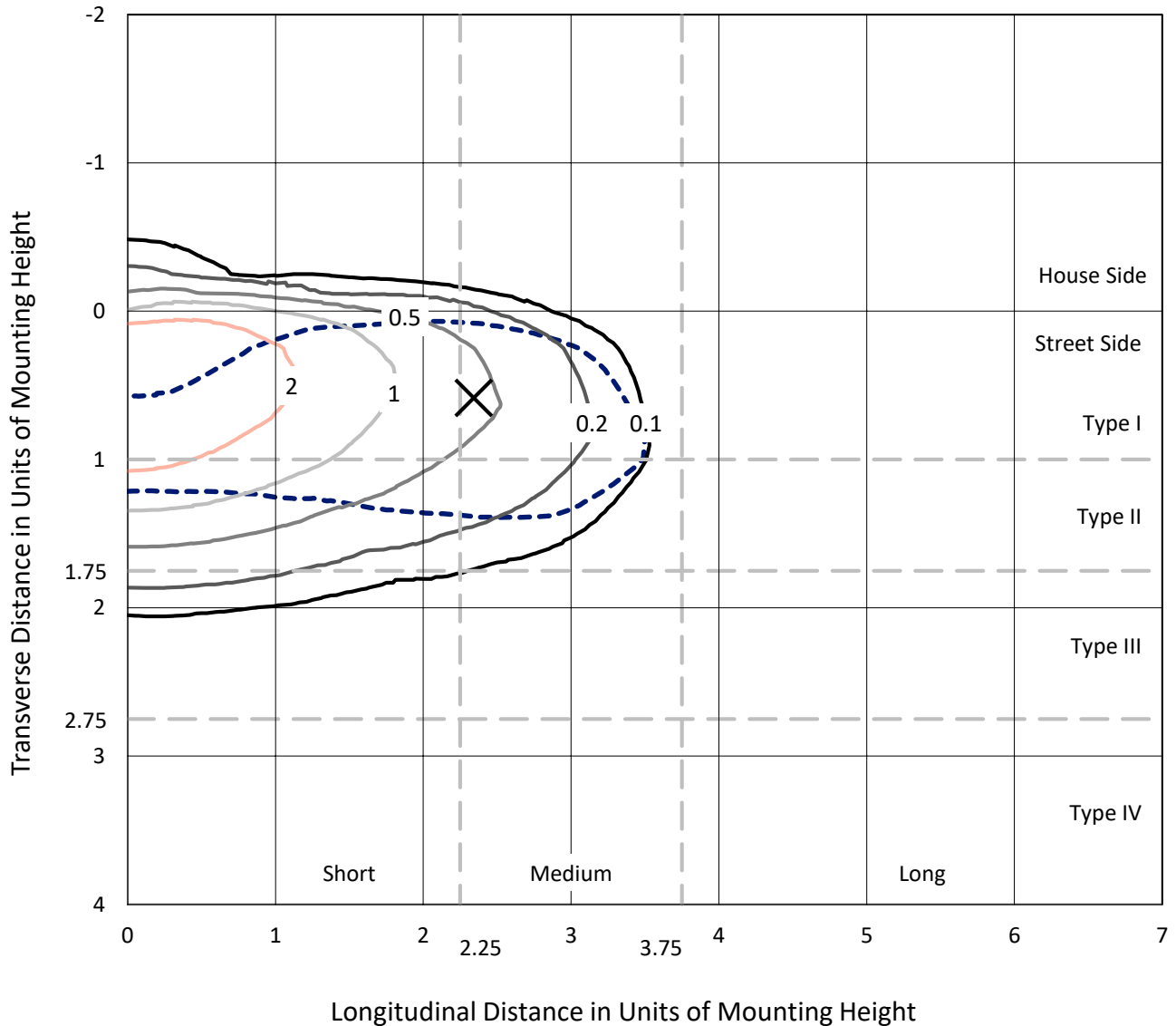
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

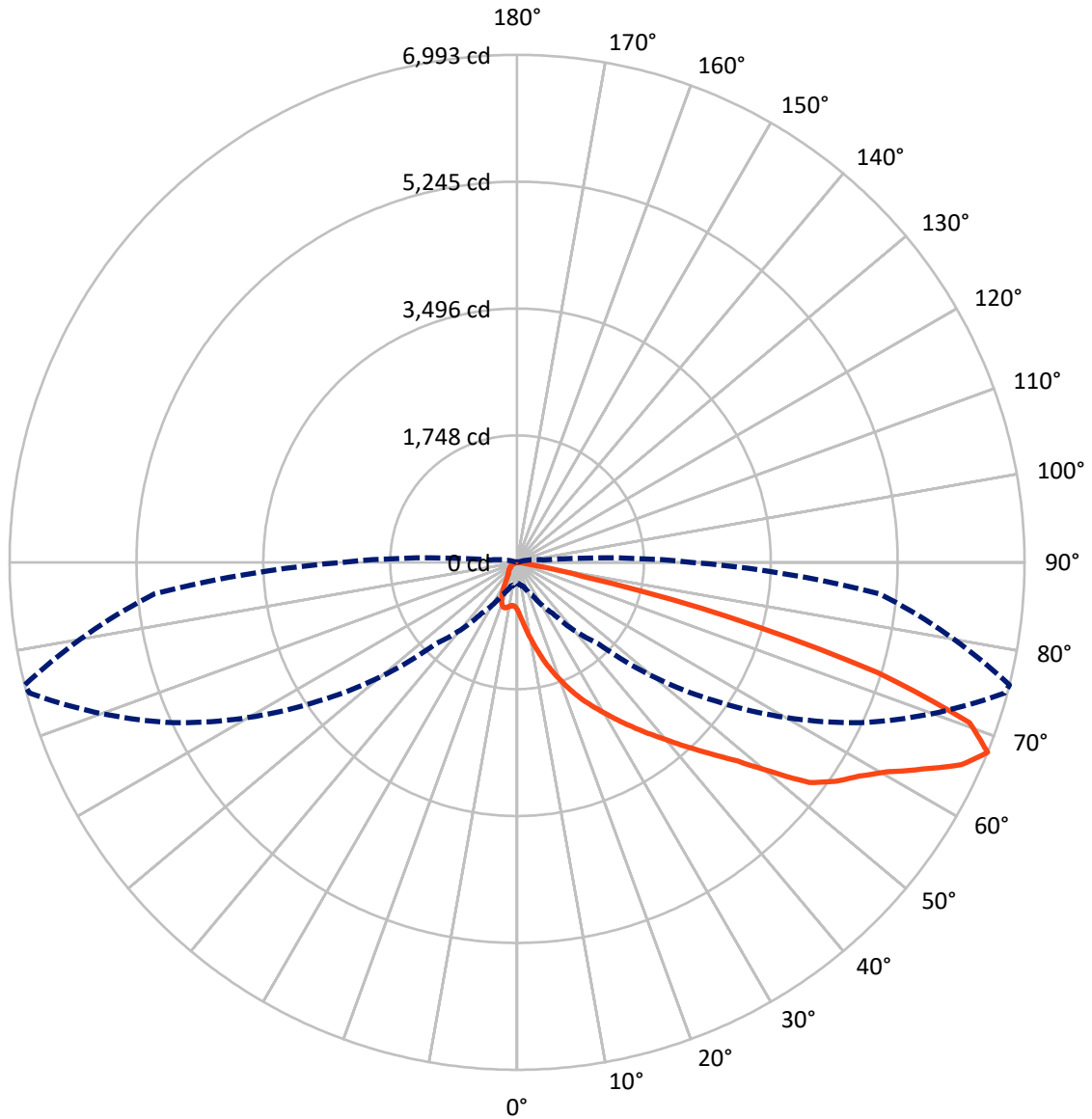
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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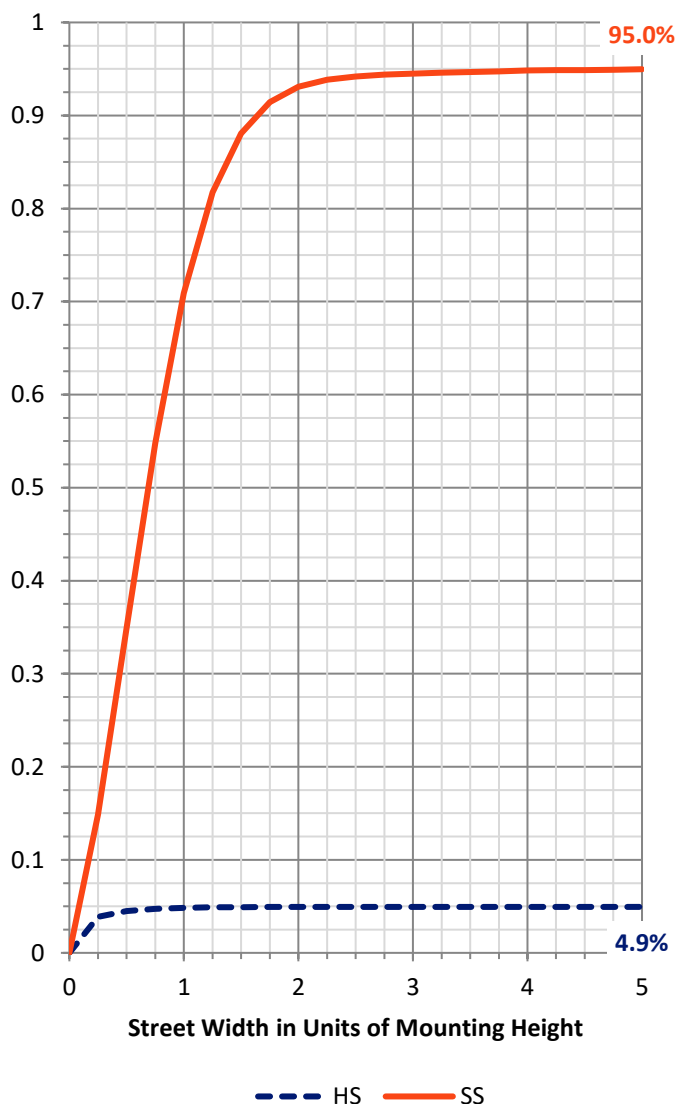
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	382.2	0.0	382.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	7313.8	0.0	7313.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7696.0	0.0	7696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	1.1
10°-20°	321.8	4.2
20°-30°	654.8	8.5
30°-40°	1136.5	14.8
40°-50°	1605.7	20.9
50°-60°	1820.9	23.7
60°-70°	1510.3	19.6
70°-80°	547.1	7.1
80°-90°	17.7	0.2
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°	7696.0	100.0
0°-180°	7696.0	100.0

**Coefficient of Utilization**

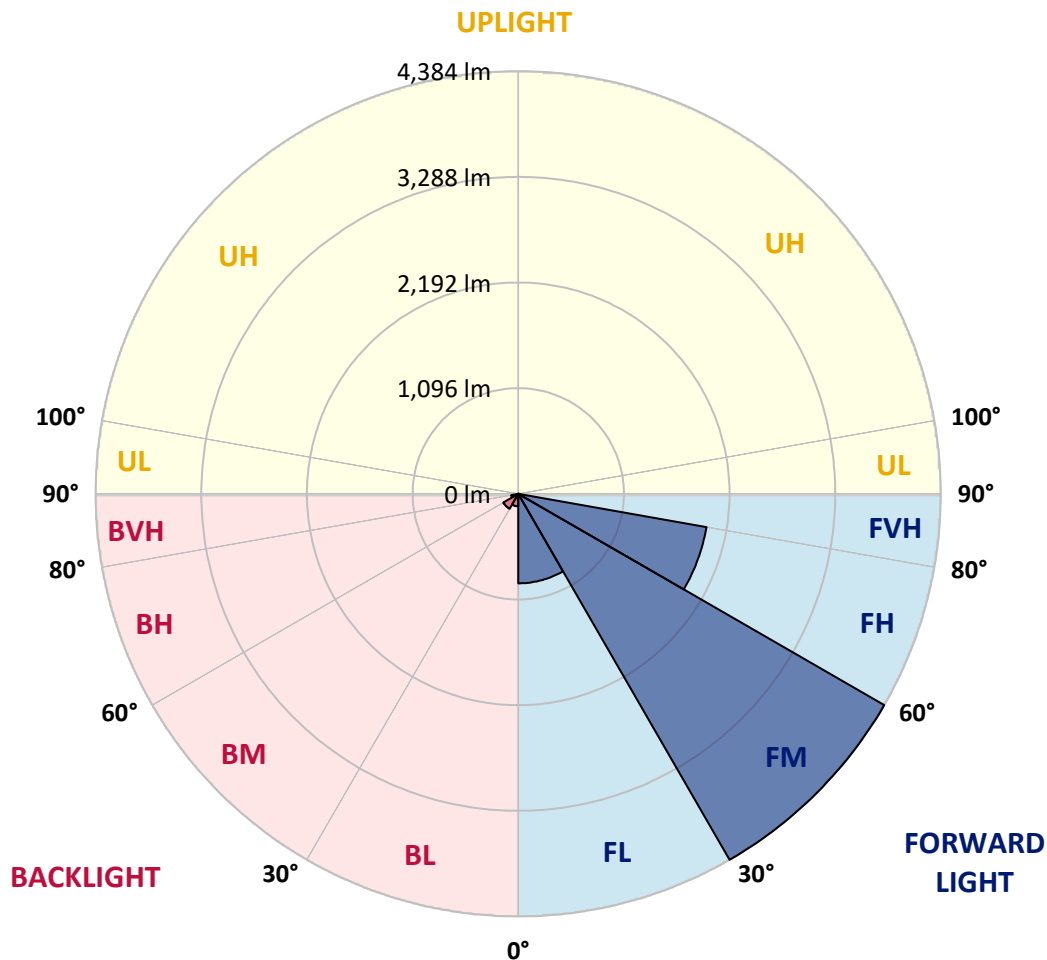


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.9	12.1			
FM (30°-60°)	4384.3	57.0			
FH (60°-80°)	1983.5	25.8			G2/5000
FVH (80°-90°)	17.2	0.2			G1/100
BL (0°-30°)	128.9	1.7	B1/500		
BM (30°-60°)	178.9	2.3	B0/220		
BH (60°-80°)	73.9	1.0	B0/110		G0/110
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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	974.5	952.6	957.7	943.5	917.9	865.3	820.4	777.9	728.4	726.7	685.9
5°	1314.1	1295.6	1293.2	1264.5	1218.0	1128.7	1041.6	942.5	831.9	823.8	737.1
7.5°	1622.3	1607.5	1602.1	1568.0	1481.4	1394.4	1281.1	1135.4	962.4	947.6	806.3
10°	1859.1	1852.0	1853.3	1829.0	1754.9	1673.9	1525.2	1339.4	1110.4	1087.5	889.2
12.5°	2038.5	2040.1	2052.3	2037.4	1996.0	1935.9	1777.1	1556.9	1274.3	1243.0	984.0
15°	2170.3	2178.7	2201.0	2219.5	2216.5	2164.6	2018.9	1777.8	1448.3	1413.6	1089.5
17.5°	2255.6	2265.1	2297.4	2338.6	2376.3	2364.2	2252.2	1990.9	1624.4	1584.2	1202.5
20°	2330.5	2341.6	2376.3	2430.6	2501.1	2516.3	2442.8	2197.6	1800.0	1751.1	1319.2
22.5°	2492.7	2492.3	2513.6	2545.3	2612.4	2651.5	2605.0	2389.5	1973.7	1922.8	1438.2
25°	2786.1	2774.9	2767.5	2742.6	2757.4	2781.7	2755.7	2568.9	2148.4	2096.8	1558.9
27.5°	3134.7	3141.5	3081.4	3014.3	2962.4	2937.5	2895.0	2735.1	2316.3	2259.7	1677.0
30°	3502.6	3504.7	3433.8	3348.2	3233.9	3139.1	3065.6	2894.0	2489.0	2427.3	1791.6
32.5°	3834.4	3821.3	3751.2	3634.5	3490.2	3383.6	3230.8	3071.3	2671.7	2612.0	1919.1
35°	4097.5	4082.0	3996.6	3890.4	3740.7	3633.5	3449.7	3248.4	2863.9	2805.6	2046.9
37.5°	4289.7	4271.5	4183.8	4074.5	3945.4	3883.0	3703.6	3440.9	3073.7	3011.0	2181.4
40°	4356.5	4340.6	4285.6	4205.7	4101.9	4087.7	3973.0	3662.5	3302.0	3235.2	2333.8
42.5°	4316.7	4301.1	4281.6	4254.6	4211.4	4224.9	4227.3	3915.0	3555.6	3489.8	2502.1
45°	4158.8	4145.0	4165.3	4204.7	4258.3	4325.1	4459.3	4186.5	3838.8	3768.7	2696.7
47.5°	3926.5	3916.4	3972.4	4070.8	4227.6	4411.8	4671.4	4471.8	4156.8	4091.7	2939.5
50°	3596.0	3594.3	3706.3	3886.0	4127.1	4453.6	4890.6	4796.2	4598.6	4530.1	3277.0
52.5°	3081.4	3084.8	3305.0	3592.7	3950.8	4425.2	5031.5	5213.0	5112.5	5041.3	3569.4
55°	2591.5	2611.7	2767.8	3182.6	3680.3	4320.0	5080.1	5407.5	5396.1	5328.6	3731.9
57.5°	2111.6	2148.4	2298.8	2686.2	3285.5	4077.6	5053.5	5491.8	5607.2	5555.6	3946.4
60°	1591.6	1608.5	1781.8	2144.0	2778.6	3635.2	4860.2	5537.7	5895.8	5860.1	4257.6
62.5°	1012.6	1054.8	1208.6	1557.9	2163.6	3020.8	4534.5	5537.0	6257.0	6276.5	4659.3
65°	533.5	582.7	664.3	965.4	1486.8	2334.5	4044.5	5485.1	6700.1	6727.4	4973.2
67.5°	287.6	301.8	345.0	501.1	862.3	1581.5	3324.6	5228.8	6956.7	6992.8	5017.0
70°	210.4	218.2	234.4	277.2	434.0	918.6	2425.9	4647.8	6625.9	6612.4	4457.6
72.5°	161.5	173.7	185.8	203.0	249.5	490.3	1510.4	3639.5	5286.8	5197.8	3332.0
75°	127.5	129.5	146.7	162.2	187.2	279.2	670.7	2119.7	3226.8	3016.0	1727.9
77.5°	101.8	103.2	113.3	126.8	150.4	183.4	207.7	833.9	1030.2	919.2	375.0
80°	60.4	63.7	84.3	97.8	124.8	115.7	75.9	181.1	160.9	145.7	63.1
82.5°	33.7	36.4	47.5	77.2	87.0	55.3	37.8	48.9	37.8	36.8	17.9
85°	0.0	1.7	30.7	47.9	35.4	12.1	15.8	16.2	11.1	10.5	7.1
87.5°	0.0	0.0	9.4	9.1	1.3	2.0	3.7	5.4	4.4	4.4	3.7
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°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	665.7	647.4	613.1	579.3	551.0	527.7	506.8	498.4	491.7	490.6	485.2
5°	695.3	658.6	592.8	538.9	502.8	477.2	455.2	441.7	431.3	427.2	423.5
7.5°	740.2	684.5	590.1	528.1	484.9	441.7	401.3	357.4	330.1	319.7	313.6
10°	794.8	718.9	600.2	525.0	449.5	358.5	291.4	235.7	213.1	205.7	203.7
12.5°	858.5	761.8	617.8	506.2	374.0	254.6	201.0	182.1	177.0	174.7	174.7
15°	931.7	808.6	630.3	451.5	276.5	192.5	174.0	165.2	159.8	156.8	157.1
17.5°	1006.6	854.5	624.2	372.3	204.0	171.3	157.5	148.0	140.6	137.6	136.9
20°	1082.1	897.0	590.5	277.2	172.7	155.5	139.9	129.5	122.1	119.0	118.4
22.5°	1160.3	933.1	531.1	203.3	155.1	137.9	122.7	112.3	105.2	102.5	101.2
25°	1236.6	962.4	448.2	164.6	138.6	121.4	106.9	97.1	90.7	88.0	87.7
27.5°	1307.7	981.0	352.1	145.3	124.1	106.6	93.4	84.6	79.2	77.2	76.9
30°	1371.8	982.6	260.3	131.2	111.3	93.7	81.6	73.8	69.1	67.1	66.4
32.5°	1436.5	968.5	189.5	118.4	99.5	82.6	70.8	64.7	61.4	59.7	59.7
35°	1497.6	935.8	147.7	107.2	88.0	71.8	62.4	58.0	56.0	54.3	54.3
37.5°	1557.2	888.9	125.4	97.5	77.2	62.7	55.0	52.3	50.6	48.9	48.9
40°	1617.9	829.9	114.0	88.3	68.5	55.6	48.9	46.5	44.8	43.5	43.2
42.5°	1692.5	761.8	106.6	79.9	60.7	49.2	43.2	40.5	39.1	37.8	37.1
45°	1778.8	703.1	100.5	71.5	54.3	43.8	37.4	34.7	32.7	31.0	30.7
47.5°	1903.2	660.6	92.4	62.4	48.2	38.1	32.4	29.3	26.3	24.6	24.3
50°	2062.1	625.5	81.9	54.3	42.2	32.4	27.0	23.3	20.6	18.9	18.9
52.5°	2141.0	579.7	72.5	47.2	35.4	27.3	21.9	17.5	16.2	14.5	14.5
55°	2172.7	544.6	63.1	40.1	29.3	22.6	17.2	13.5	12.5	11.5	11.1
57.5°	2261.7	534.5	55.0	34.1	24.3	17.9	13.2	10.1	9.4	8.1	8.1
60°	2405.0	539.5	47.5	29.0	19.6	13.8	9.8	7.8	7.1	5.7	5.7
62.5°	2559.8	533.1	40.1	25.0	15.2	10.1	6.7	5.7	5.7	3.4	3.0
65°	2589.5	474.8	34.4	20.6	11.8	7.4	4.4	3.7	5.1	0.7	0.0
67.5°	2403.3	368.2	29.7	15.8	8.8	5.7	3.4	1.7	4.4	0.0	0.0
70°	1921.8	234.0	23.9	11.5	6.7	4.7	2.7	0.7	3.4	0.0	0.0
72.5°	1359.0	135.9	18.9	8.1	5.7	3.7	2.0	0.0	2.0	0.0	0.0
75°	687.2	72.5	11.8	6.1	4.4	2.7	1.3	0.0	0.3	0.0	0.0
77.5°	148.7	33.7	7.4	4.4	3.0	1.7	0.7	0.0	0.0	0.0	0.0
80°	32.4	14.8	4.7	2.7	1.7	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.8	7.8	2.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	4.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.3	0.3	0.3	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)