

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: P321266

Luminaire Tested: **GAN-SA2A-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321266  
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-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 7697 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

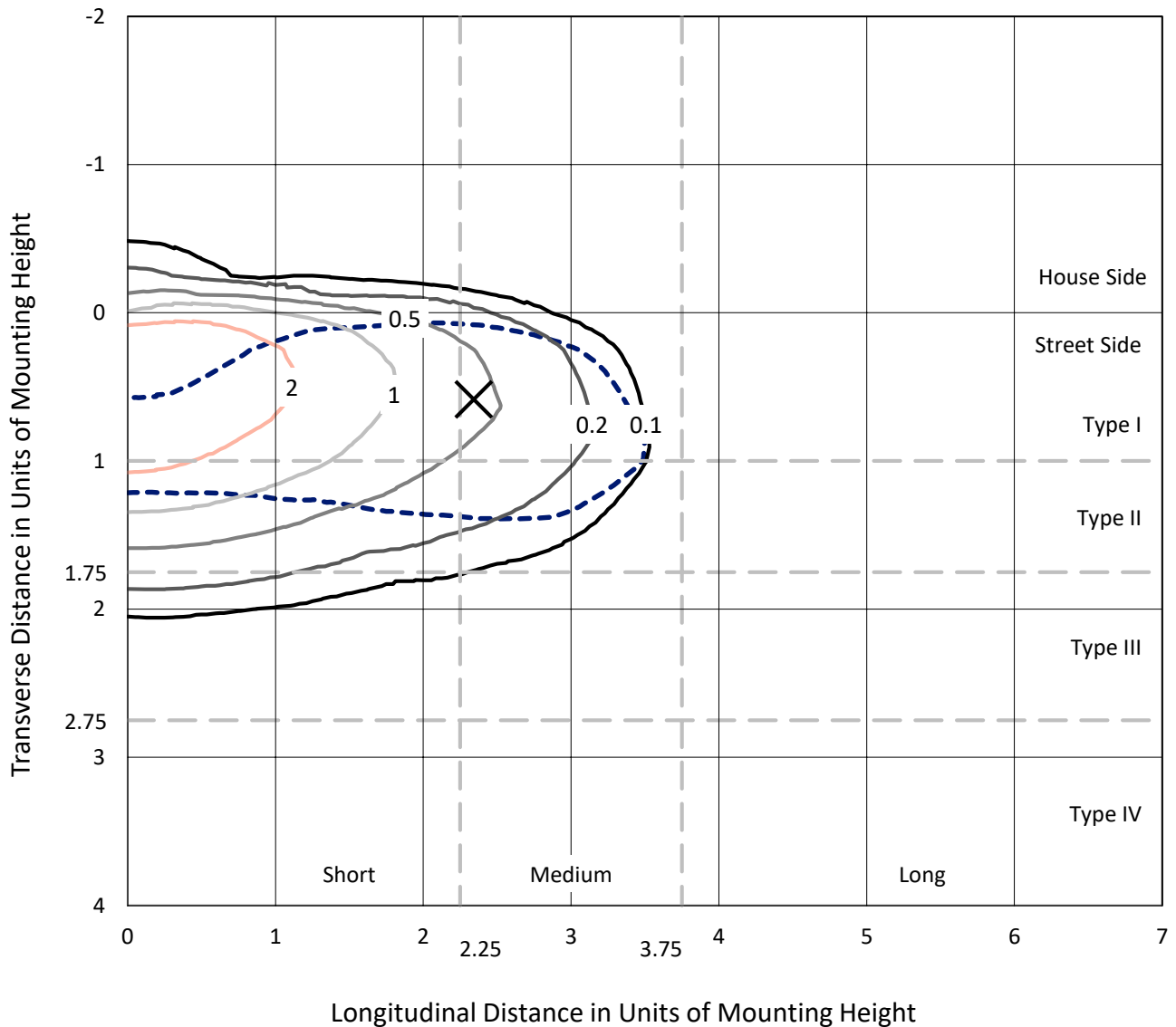
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

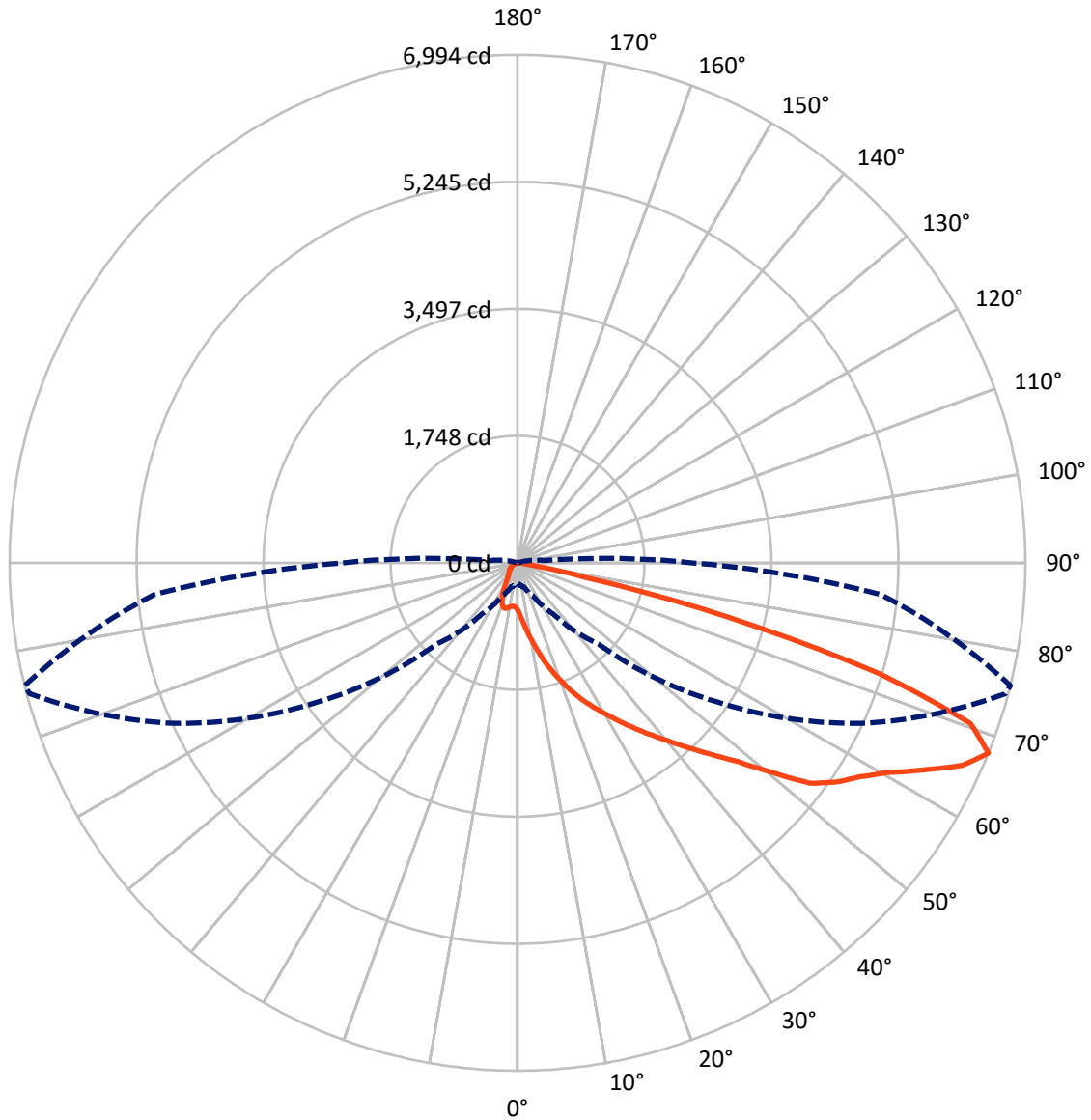
✕ Max cd  
 - - - 1/2 Max cd



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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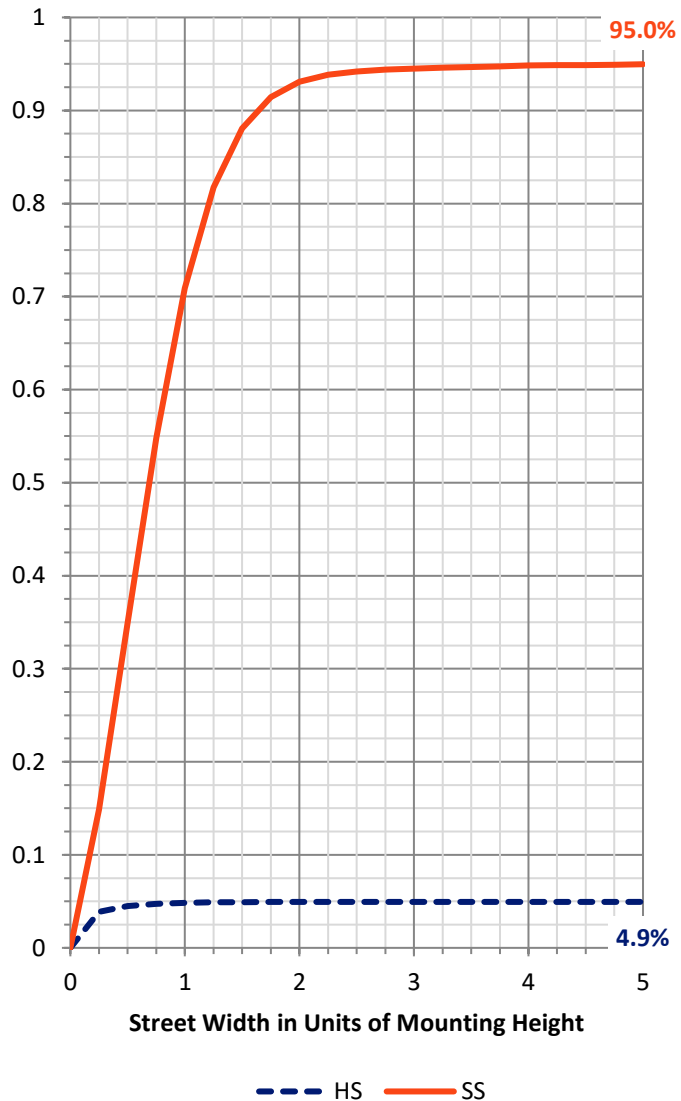
**FLUX DISTRIBUTION:**

		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	7314.8	0.0	7314.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7697.0	0.0	7697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	1.1
10°-20°	321.9	4.2
20°-30°	654.9	8.5
30°-40°	1136.6	14.8
40°-50°	1605.9	20.9
50°-60°	1821.2	23.7
60°-70°	1510.5	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°	7697.0	100.0
0°-180°	7697.0	100.0

**Coefficient of Utilization**

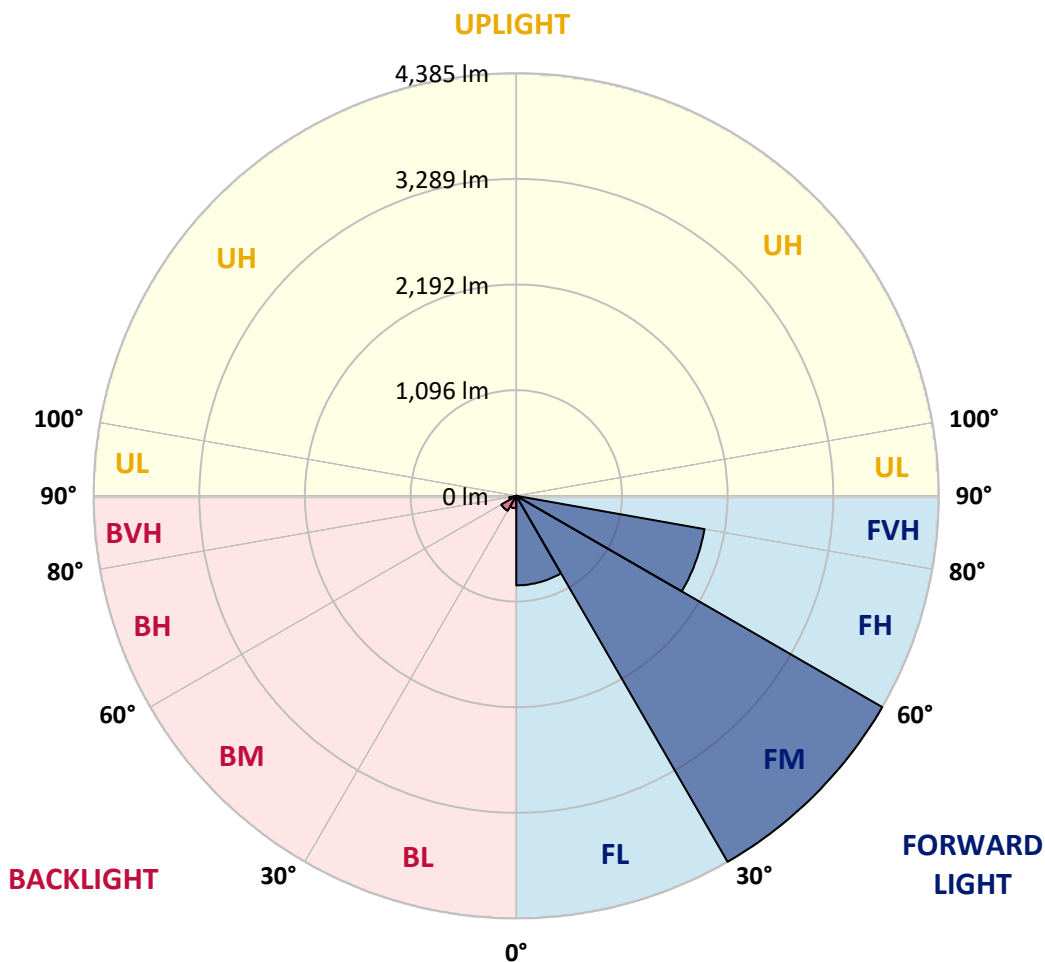


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.0	12.1			
FM (30°-60°)	4384.8	57.0			
FH (60°-80°)	1983.8	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°	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9
2.5°	974.7	952.7	957.8	943.6	918.0	865.4	820.5	778.1	728.5	726.8	686.0
5°	1314.3	1295.7	1293.4	1264.7	1218.2	1128.8	1041.8	942.6	832.0	823.9	737.2
7.5°	1622.5	1607.7	1602.3	1568.2	1481.6	1394.6	1281.2	1135.5	962.5	947.7	806.4
10°	1859.3	1852.2	1853.6	1829.3	1755.1	1674.1	1525.4	1339.6	1110.6	1087.7	889.3
12.5°	2038.7	2040.4	2052.5	2037.7	1996.2	1936.2	1777.3	1557.1	1274.5	1243.1	984.1
15°	2170.6	2179.0	2201.3	2219.8	2216.8	2164.8	2019.2	1778.0	1448.5	1413.8	1089.7
17.5°	2255.9	2265.4	2297.7	2338.9	2376.6	2364.5	2252.5	1991.2	1624.6	1584.4	1202.7
20°	2330.8	2341.9	2376.6	2430.9	2501.4	2516.6	2443.1	2197.9	1800.3	1751.4	1319.3
22.5°	2493.0	2492.7	2513.9	2545.6	2612.7	2651.8	2605.3	2389.8	1974.0	1923.0	1438.4
25°	2786.4	2775.3	2767.9	2742.9	2757.7	2782.0	2756.1	2569.2	2148.7	2097.1	1559.1
27.5°	3135.1	3141.9	3081.8	3014.7	2962.8	2937.8	2895.3	2735.5	2316.6	2260.0	1677.2
30°	3503.1	3505.1	3434.3	3348.6	3234.3	3139.5	3066.0	2894.3	2489.3	2427.6	1791.8
32.5°	3834.9	3821.8	3751.6	3635.0	3490.6	3384.0	3231.3	3071.7	2672.1	2612.4	1919.3
35°	4098.0	4082.5	3997.2	3890.9	3741.2	3633.9	3450.1	3248.8	2864.3	2806.0	2047.1
37.5°	4290.2	4272.0	4184.3	4075.1	3945.9	3883.5	3704.1	3441.4	3074.1	3011.4	2181.7
40°	4357.0	4341.2	4286.2	4206.3	4102.4	4088.2	3973.6	3662.9	3302.4	3235.6	2334.2
42.5°	4317.2	4301.7	4282.1	4255.2	4212.0	4225.5	4227.8	3915.5	3556.0	3490.3	2502.4
45°	4159.4	4145.6	4165.8	4205.3	4258.9	4325.7	4459.9	4187.0	3839.3	3769.2	2697.0
47.5°	3927.0	3916.9	3972.9	4071.4	4228.2	4412.3	4672.0	4472.4	4157.4	4092.3	2939.9
50°	3596.5	3594.8	3706.8	3886.5	4127.7	4454.1	4891.2	4796.8	4599.2	4530.7	3277.5
52.5°	3081.8	3085.2	3305.5	3593.1	3951.3	4425.8	5032.2	5213.6	5113.1	5042.0	3569.9
55°	2591.8	2612.1	2768.2	3183.0	3680.8	4320.6	5080.8	5408.2	5396.8	5329.3	3732.4
57.5°	2111.9	2148.7	2299.1	2686.6	3285.9	4078.1	5054.1	5492.6	5607.9	5556.3	3946.9
60°	1591.9	1608.7	1782.1	2144.3	2779.0	3635.6	4860.9	5538.4	5896.6	5860.8	4258.2
62.5°	1012.8	1054.9	1208.7	1558.1	2163.8	3021.1	4535.1	5537.8	6257.8	6277.4	4659.9
65°	533.5	582.8	664.4	965.6	1487.0	2334.8	4045.1	5485.8	6700.9	6728.3	4973.9
67.5°	287.7	301.8	345.0	501.2	862.4	1581.7	3325.0	5229.5	6957.6	6993.7	5017.7
70°	210.4	218.2	234.4	277.2	434.0	918.7	2426.2	4648.4	6626.8	6613.3	4458.2
72.5°	161.5	173.7	185.8	203.0	249.6	490.4	1510.6	3640.0	5287.5	5198.5	3332.4
75°	127.5	129.5	146.7	162.2	187.2	279.2	670.8	2120.0	3227.2	3016.4	1728.1
77.5°	101.9	103.2	113.3	126.8	150.4	183.5	207.7	834.0	1030.3	919.4	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	47.6	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	15.9	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°	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9
2.5°	665.7	647.5	613.1	579.4	551.1	527.8	506.9	498.5	491.7	490.7	485.3
5°	695.4	658.7	592.9	538.9	502.8	477.2	455.3	441.8	431.4	427.3	423.6
7.5°	740.3	684.6	590.2	528.1	485.0	441.8	401.3	357.5	330.2	319.7	313.6
10°	794.9	719.0	600.3	525.1	449.6	358.5	291.4	235.7	213.1	205.7	203.7
12.5°	858.7	761.9	617.9	506.2	374.0	254.6	201.0	182.1	177.1	174.7	174.7
15°	931.8	808.7	630.3	451.6	276.6	192.6	174.0	165.3	159.9	156.8	157.2
17.5°	1006.7	854.6	624.3	372.3	204.0	171.3	157.5	148.1	140.6	137.6	136.9
20°	1082.3	897.1	590.5	277.2	172.7	155.5	140.0	129.5	122.1	119.1	118.4
22.5°	1160.5	933.2	531.2	203.4	155.1	137.9	122.8	112.3	105.2	102.5	101.2
25°	1236.7	962.5	448.2	164.6	138.6	121.4	106.9	97.1	90.7	88.0	87.7
27.5°	1307.9	981.1	352.1	145.4	124.1	106.6	93.4	84.7	79.3	77.2	76.9
30°	1372.0	982.8	260.4	131.2	111.3	93.8	81.6	73.9	69.1	67.1	66.4
32.5°	1436.7	968.6	189.5	118.4	99.5	82.6	70.8	64.8	61.4	59.7	59.7
35°	1497.8	935.9	147.7	107.2	88.0	71.8	62.4	58.0	56.0	54.3	54.3
37.5°	1557.5	889.0	125.5	97.5	77.2	62.7	55.0	52.3	50.6	48.9	48.9
40°	1618.2	830.0	114.0	88.4	68.5	55.6	48.9	46.5	44.9	43.5	43.2
42.5°	1692.7	761.9	106.6	79.9	60.7	49.2	43.2	40.5	39.1	37.8	37.1
45°	1779.0	703.2	100.5	71.5	54.3	43.8	37.4	34.7	32.7	31.0	30.7
47.5°	1903.5	660.7	92.4	62.4	48.2	38.1	32.4	29.3	26.3	24.6	24.3
50°	2062.3	625.6	82.0	54.3	42.2	32.4	27.0	23.3	20.6	18.9	18.9
52.5°	2141.2	579.7	72.5	47.2	35.4	27.3	21.9	17.5	16.2	14.5	14.5
55°	2172.9	544.7	63.1	40.1	29.3	22.6	17.2	13.5	12.5	11.5	11.1
57.5°	2262.0	534.6	55.0	34.1	24.3	17.9	13.2	10.1	9.4	8.1	8.1
60°	2405.3	539.6	47.6	29.0	19.6	13.8	9.8	7.8	7.1	5.7	5.7
62.5°	2560.1	533.2	40.1	25.0	15.2	10.1	6.7	5.7	5.7	3.4	3.0
65°	2589.8	474.9	34.4	20.6	11.8	7.4	4.4	3.7	5.1	0.7	0.0
67.5°	2403.6	368.3	29.7	15.9	8.8	5.7	3.4	1.7	4.4	0.0	0.0
70°	1922.0	234.1	23.9	11.5	6.7	4.7	2.7	0.7	3.4	0.0	0.0
72.5°	1359.1	135.9	18.9	8.1	5.7	3.7	2.0	0.0	2.0	0.0	0.0
75°	687.3	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)