

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: McGRAW-EDISON

Report Number: P450731

Luminaire Tested: **GALN-SA1C-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5695 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

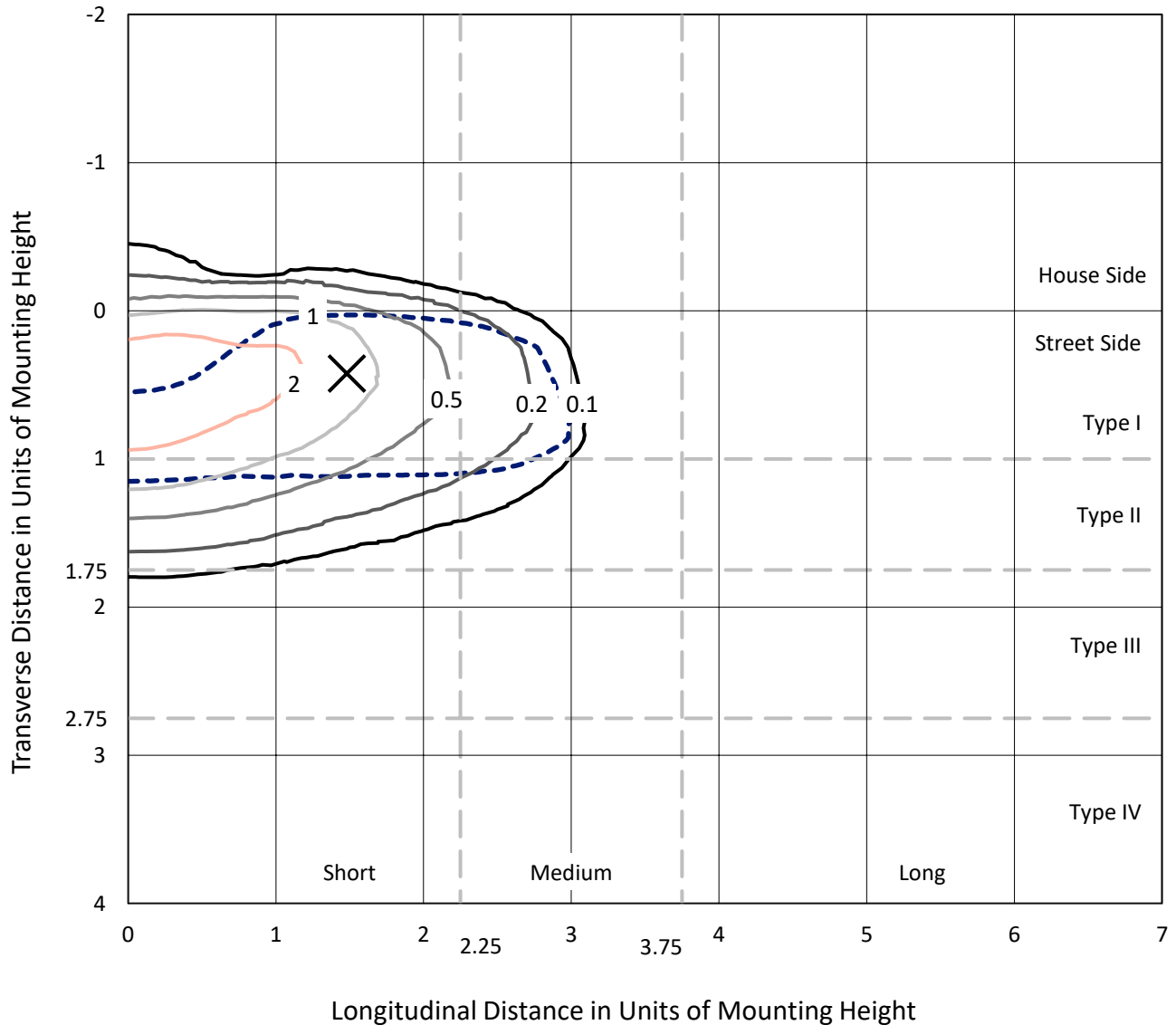
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

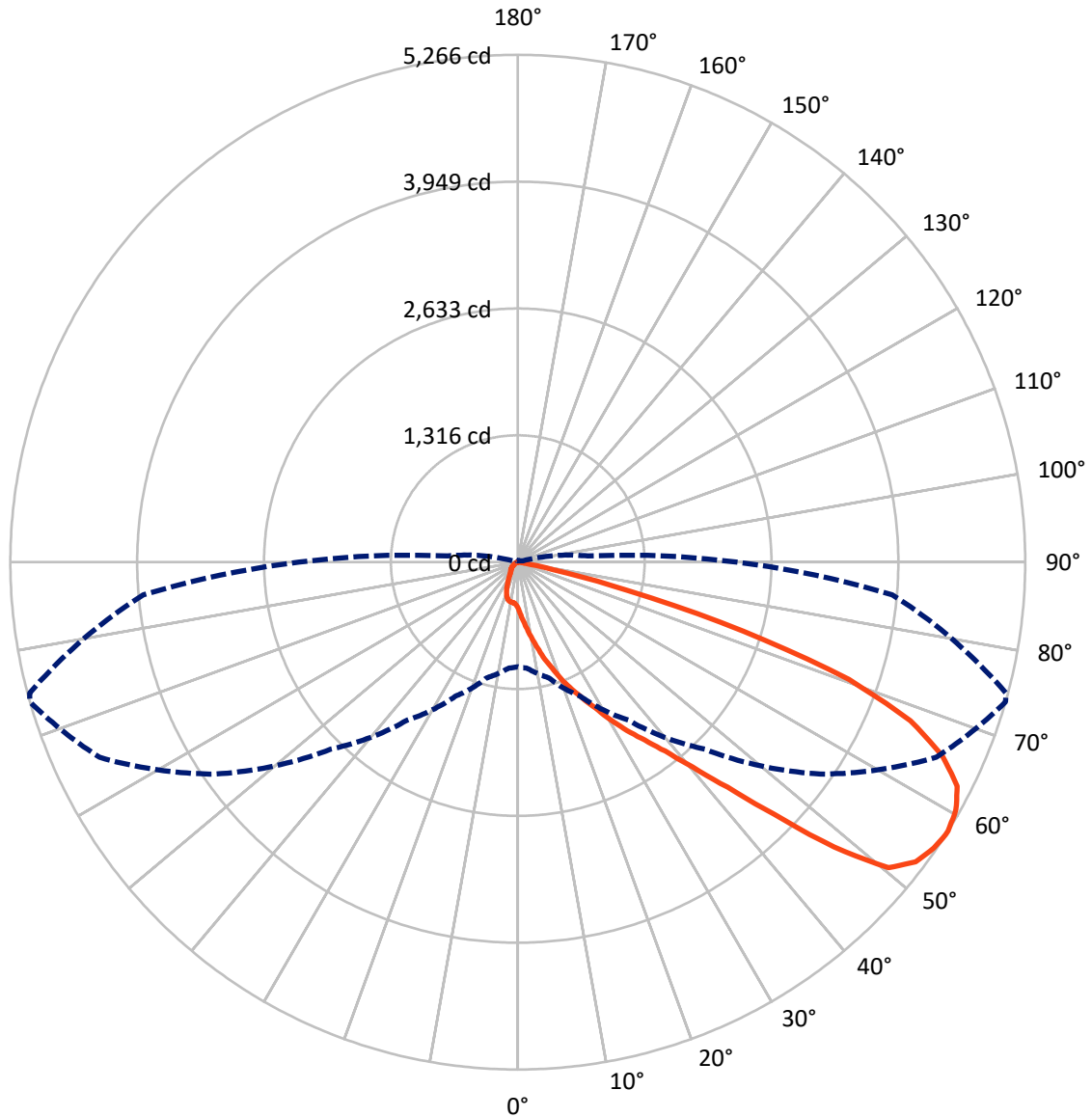
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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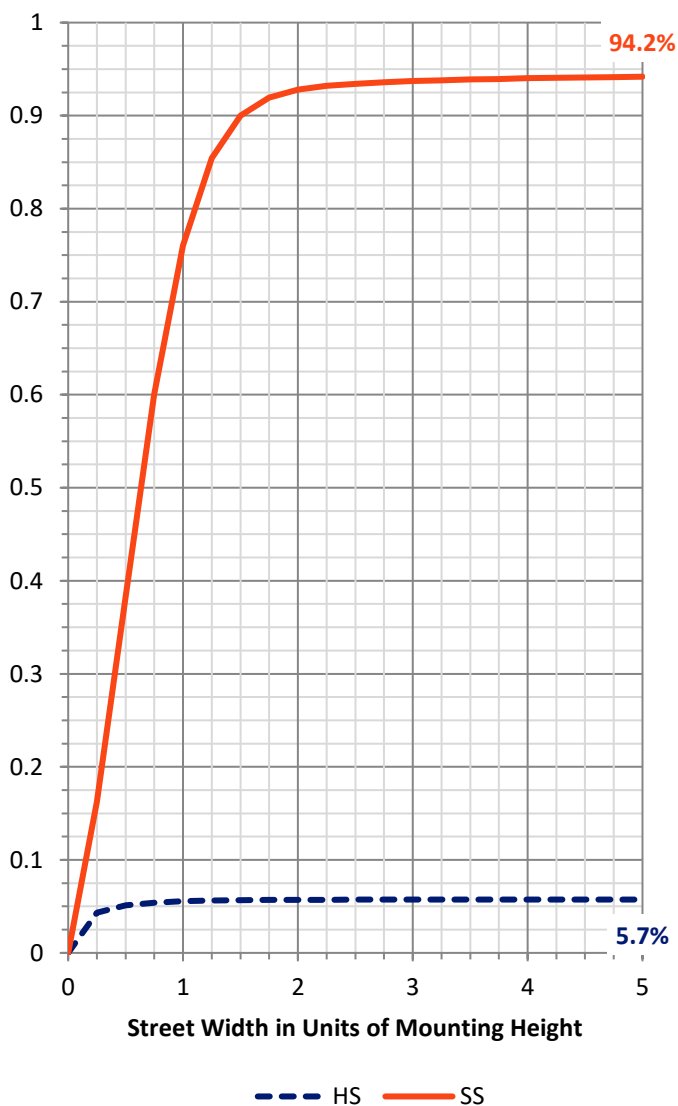
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	328.5	0.0	328.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	5366.5	0.0	5366.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	5695.0	0.0	5695.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	1.0
10°-20°	226.9	4.0
20°-30°	485.5	8.5
30°-40°	892.4	15.7
40°-50°	1368.1	24.0
50°-60°	1447.3	25.4
60°-70°	945.1	16.6
70°-80°	258.2	4.5
80°-90°	13.9	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°	5695.0	100.0
0°-180°	5695.0	100.0

**Coefficient of Utilization**



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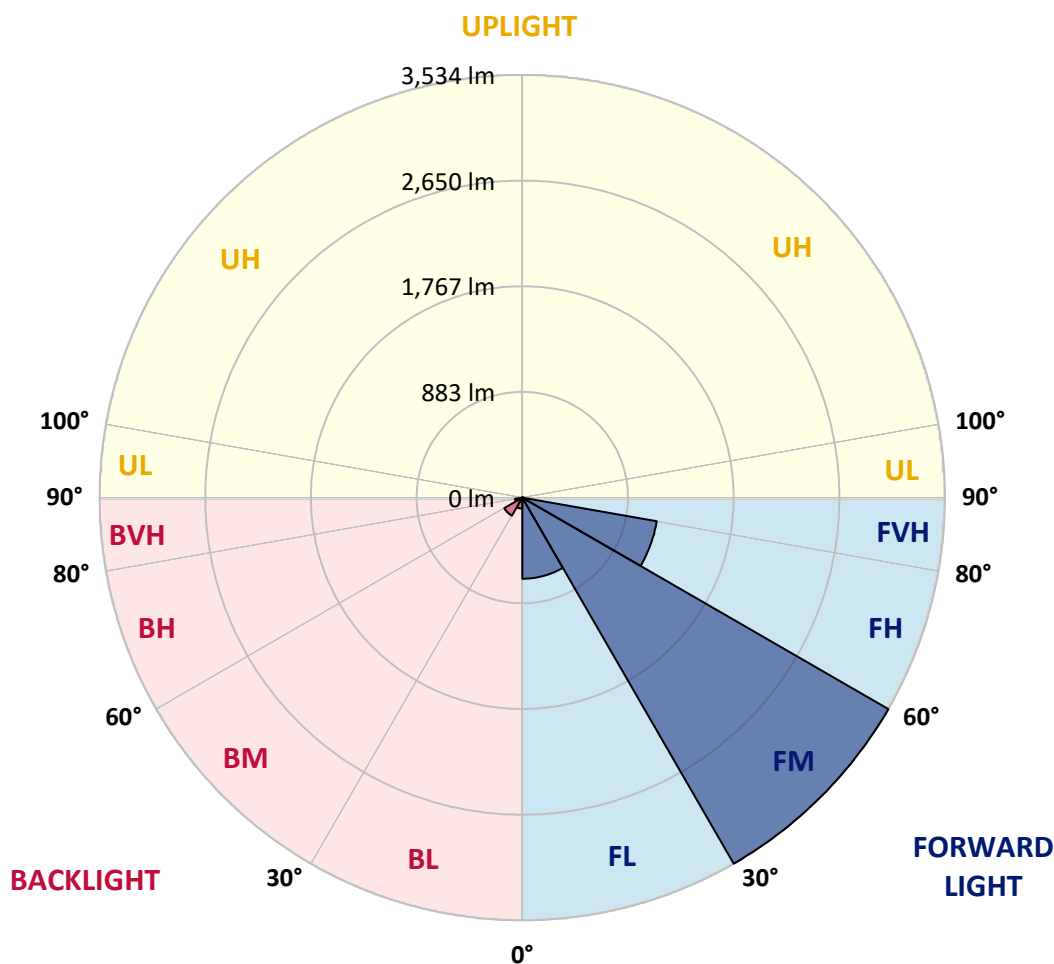
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.3	11.9			
FM (30°-60°)	3533.9	62.1			
FH (60°-80°)	1141.7	20.0			G1/1800
FVH (80°-90°)	12.8	0.2			G1/100
BL (0°-30°)	91.8	1.6	B0/110		
BM (30°-60°)	173.9	3.1	B0/220		
BH (60°-80°)	61.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9
2.5°	697.9	691.6	679.1	674.7	656.2	627.5	602.4	568.6	541.8	539.1	506.8
5°	934.6	920.5	914.6	886.3	841.8	800.2	728.6	674.3	611.8	607.1	542.2
7.5°	1162.7	1143.0	1137.1	1110.4	1058.5	992.8	900.0	801.3	702.3	693.2	589.8
10°	1327.8	1330.6	1320.0	1302.3	1260.2	1193.4	1078.9	944.1	802.9	791.5	643.3
12.5°	1446.2	1445.8	1447.8	1447.4	1424.9	1374.2	1253.9	1098.6	913.8	891.4	704.6
15°	1523.2	1524.4	1530.3	1550.8	1553.1	1521.7	1421.4	1246.4	1042.4	1014.5	771.1
17.5°	1601.1	1609.4	1618.8	1638.1	1655.4	1642.8	1572.0	1400.6	1158.8	1137.9	842.2
20°	1729.7	1741.1	1735.6	1747.4	1756.4	1757.6	1702.9	1542.9	1299.9	1264.9	923.6
22.5°	1935.3	1934.9	1920.8	1899.5	1881.8	1881.1	1831.5	1689.2	1428.1	1394.3	1005.4
25°	2195.2	2196.4	2168.9	2108.3	2064.3	2010.4	1953.4	1817.4	1565.3	1523.6	1091.5
27.5°	2493.3	2485.8	2444.1	2360.8	2273.5	2181.5	2099.3	1966.4	1710.8	1676.2	1190.2
30°	2761.0	2758.3	2709.5	2607.7	2492.9	2400.5	2281.3	2153.2	1899.1	1856.7	1300.7
32.5°	3010.3	3014.3	2946.6	2841.2	2730.4	2623.8	2498.0	2331.7	2083.9	2023.8	1421.0
35°	3205.0	3208.9	3138.9	3051.2	2937.2	2848.7	2728.8	2522.0	2266.4	2215.7	1559.4
37.5°	3308.8	3313.9	3273.4	3207.3	3136.1	3091.7	2980.0	2766.9	2488.2	2457.5	1723.0
40°	3328.4	3334.3	3316.6	3298.9	3295.0	3326.8	3294.2	3055.5	2795.6	2747.7	1966.8
42.5°	3269.4	3277.3	3285.2	3324.5	3404.7	3521.5	3635.1	3447.2	3191.6	3127.1	2264.8
45°	3114.5	3113.7	3144.8	3246.6	3426.3	3675.6	3991.4	3937.5	3731.1	3654.4	2685.9
47.5°	2849.5	2845.6	2912.8	3057.9	3337.9	3703.9	4281.9	4532.8	4419.5	4348.8	3138.5
50°	2445.7	2465.0	2570.7	2773.2	3118.1	3618.2	4371.6	4923.2	4984.6	4909.5	3504.2
52.5°	1972.7	1971.9	2137.8	2412.7	2792.5	3429.5	4309.1	4994.0	5168.2	5110.8	3684.3
55°	1459.9	1470.2	1642.8	1920.0	2369.8	3085.0	4105.0	4921.3	5238.2	5197.7	3803.0
57°	1086.0	1104.1	1242.5	1535.8	2001.8	2744.1	3833.3	4791.1	5265.7	5243.7	3901.7
57.5°	1013.7	1014.5	1149.3	1415.9	1894.0	2613.2	3755.4	4736.9	5264.9	5252.7	3917.8
60°	624.0	643.7	736.9	957.0	1386.4	2039.5	3233.7	4425.0	5224.0	5241.7	3986.6
62.5°	373.5	381.8	442.3	576.8	893.7	1488.6	2646.2	4026.0	5117.5	5171.3	3981.9
65°	240.2	242.2	269.7	349.2	558.7	1006.2	2039.1	3498.7	4841.8	4940.9	3826.2
67.5°	185.6	188.7	199.7	229.2	324.0	626.8	1442.2	2936.0	4396.0	4523.7	3448.7
70°	164.7	166.3	170.3	179.7	214.3	353.9	897.3	2293.5	3645.3	3681.5	2698.9
72.5°	134.5	138.8	151.0	154.1	169.9	221.0	499.4	1539.4	2449.2	2458.3	1509.9
75°	104.2	105.0	123.1	132.1	143.1	152.2	222.9	776.2	1176.4	1113.5	581.9
77.5°	77.9	81.4	89.6	101.1	116.8	108.9	99.9	292.5	365.3	358.6	169.1
80°	49.9	51.9	62.5	75.9	90.8	71.2	56.2	85.7	80.2	82.6	40.5
82.5°	25.2	25.6	40.1	61.7	57.8	35.8	35.4	35.0	29.9	29.5	18.9
85°	2.8	5.9	26.0	35.4	26.0	11.8	16.5	16.1	15.7	16.1	11.0
87.5°	0.4	0.4	4.3	5.1	3.5	3.9	4.7	5.1	6.3	5.9	4.7
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°	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9
2.5°	491.1	475.4	446.3	418.4	397.5	384.2	366.9	360.6	351.5	350.3	346.0
5°	512.3	482.5	431.7	391.6	359.4	335.0	313.8	296.1	281.9	278.8	280.3
7.5°	542.6	498.2	427.4	372.8	327.9	286.2	252.4	231.6	216.7	211.1	211.9
10°	576.8	519.0	426.6	352.7	284.3	233.2	196.2	177.7	169.1	165.9	162.4
12.5°	617.3	543.0	424.7	321.6	236.3	186.0	159.6	148.6	140.4	138.0	138.0
15°	662.9	568.6	415.2	283.1	191.9	153.7	136.0	127.4	124.6	122.3	122.3
17.5°	710.5	593.7	395.6	235.5	159.2	131.7	120.7	115.6	111.7	108.9	108.9
20°	764.8	618.5	364.1	193.5	134.5	117.6	108.9	103.0	99.9	97.5	96.7
22.5°	816.3	638.6	324.0	158.9	117.2	105.8	97.9	91.6	88.5	87.3	87.3
25°	869.8	650.7	275.6	131.3	106.9	95.9	87.3	82.2	79.4	78.6	78.2
27.5°	921.7	657.8	233.2	114.8	97.5	86.9	78.6	74.7	72.0	71.2	71.6
30°	984.6	659.0	191.9	103.0	89.3	78.2	70.8	67.2	65.7	64.9	64.5
32.5°	1048.3	657.4	161.2	95.9	81.4	70.8	64.5	61.7	60.6	59.4	59.4
35°	1119.8	649.2	137.2	88.9	73.9	64.5	59.0	56.6	55.0	53.9	53.5
37.5°	1208.7	644.8	123.5	81.0	67.2	58.6	53.5	51.1	49.9	48.4	48.0
40°	1348.7	664.1	119.1	73.9	60.6	53.1	48.4	45.6	44.0	42.5	42.1
42.5°	1523.2	697.9	112.1	66.8	54.7	48.0	43.3	40.1	37.4	35.4	34.6
45°	1749.3	742.4	101.1	59.4	49.5	42.5	38.1	34.2	30.7	29.1	28.7
47.5°	1986.4	785.2	91.2	53.5	44.0	37.7	33.0	28.7	25.6	24.4	24.0
50°	2131.9	793.9	84.9	46.8	38.5	32.6	27.9	24.0	22.0	20.8	20.8
52.5°	2198.4	780.1	76.3	40.9	33.4	28.7	24.0	20.8	19.7	18.9	18.5
55°	2244.8	758.9	64.9	35.4	28.7	24.4	21.2	18.9	17.3	16.5	16.1
57°	2271.9	730.2	56.2	31.1	24.8	21.2	18.9	16.9	15.3	13.8	13.8
57.5°	2273.1	719.2	53.9	30.7	23.6	20.4	18.5	16.5	14.5	13.0	12.6
60°	2238.1	643.7	43.3	26.0	18.9	17.3	15.3	13.0	10.2	8.7	8.3
62.5°	2125.6	547.7	35.8	22.0	15.3	13.4	11.0	9.8	7.1	5.1	5.1
65°	1955.4	444.3	30.7	17.7	12.6	9.8	7.5	7.1	4.3	2.4	2.0
67.5°	1709.2	346.0	26.0	14.5	10.6	7.1	5.1	4.7	2.4	0.8	0.0
70°	1302.3	235.9	21.6	11.8	7.9	5.1	3.5	2.8	1.6	0.4	0.0
72.5°	750.6	129.8	18.1	9.0	5.9	3.9	2.8	1.6	1.6	0.0	0.0
75°	268.2	55.8	13.8	6.7	4.7	3.1	2.0	0.8	1.2	0.4	0.0
77.5°	85.3	29.9	9.0	5.1	3.9	2.4	1.6	0.8	0.8	0.4	0.0
80°	25.2	15.7	5.5	4.3	2.8	2.0	1.2	0.4	0.8	0.4	0.0
82.5°	13.8	7.9	4.3	3.1	2.8	1.6	1.2	0.4	0.4	0.4	0.0
85°	7.1	4.7	3.5	3.1	2.8	1.6	1.2	0.4	0.0	0.4	0.4
87.5°	3.9	3.5	3.5	3.1	2.8	2.0	1.2	0.4	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)