

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: P450271

Luminaire Tested: **GALN-SA1A-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3623 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

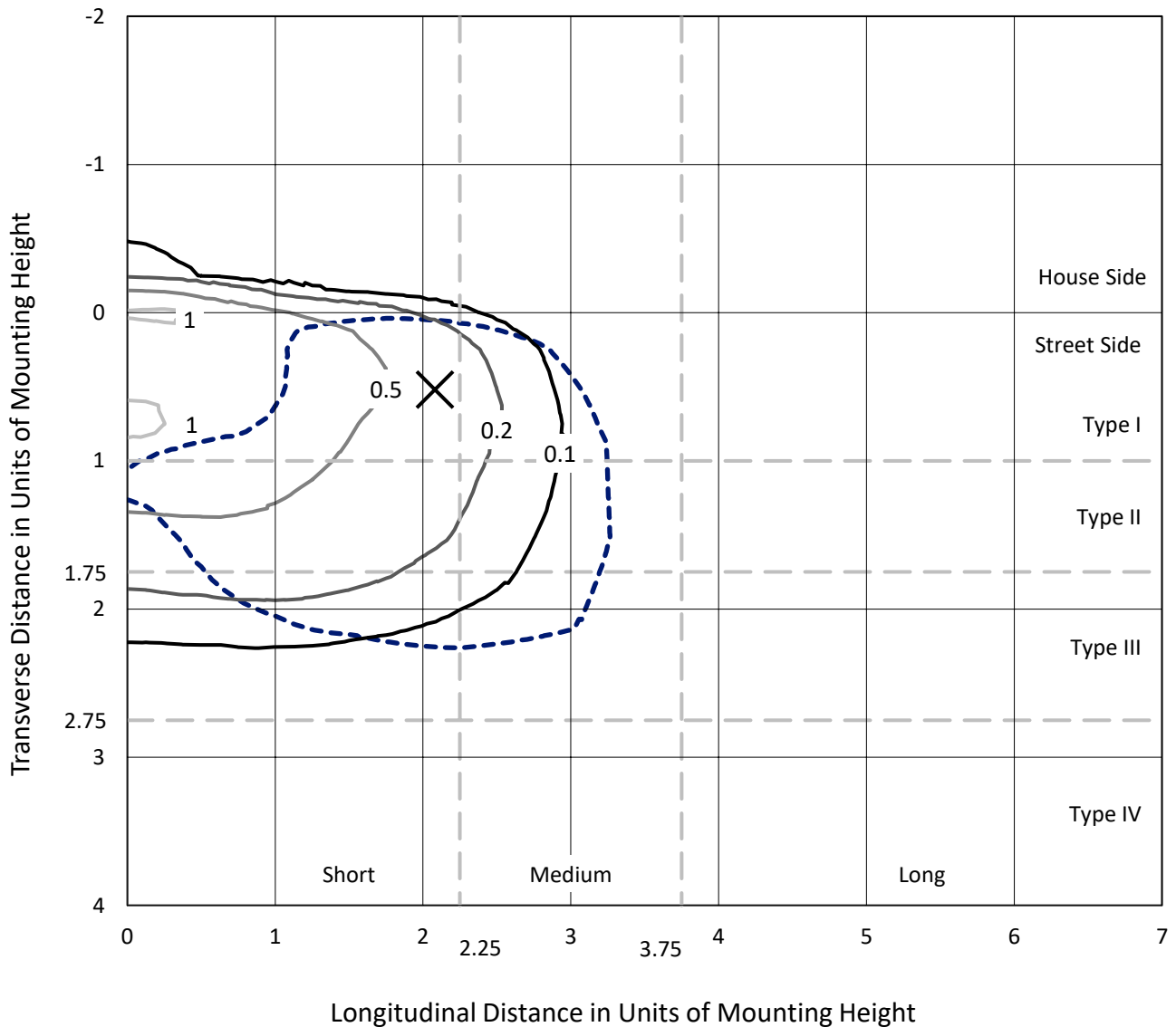
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

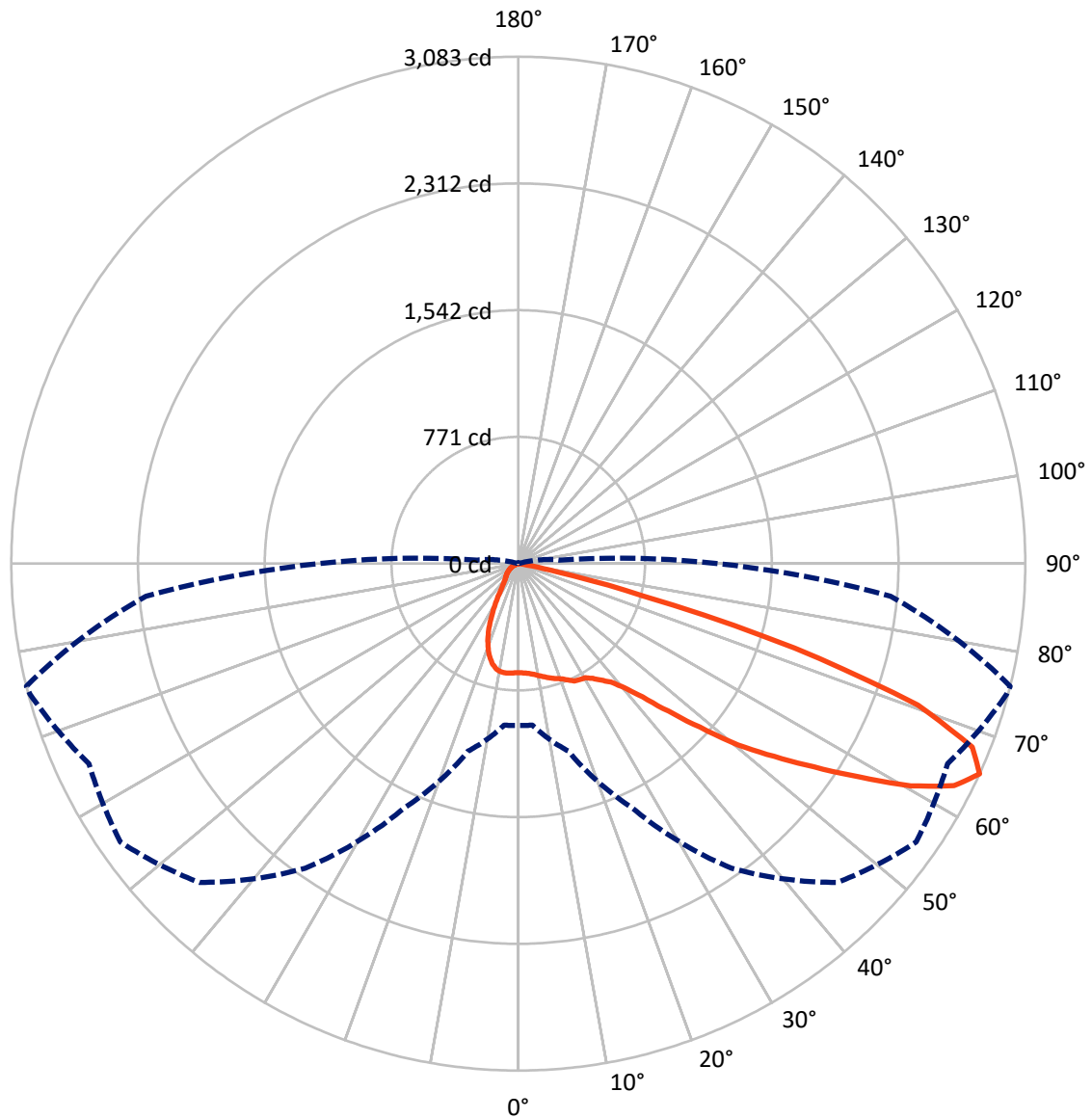
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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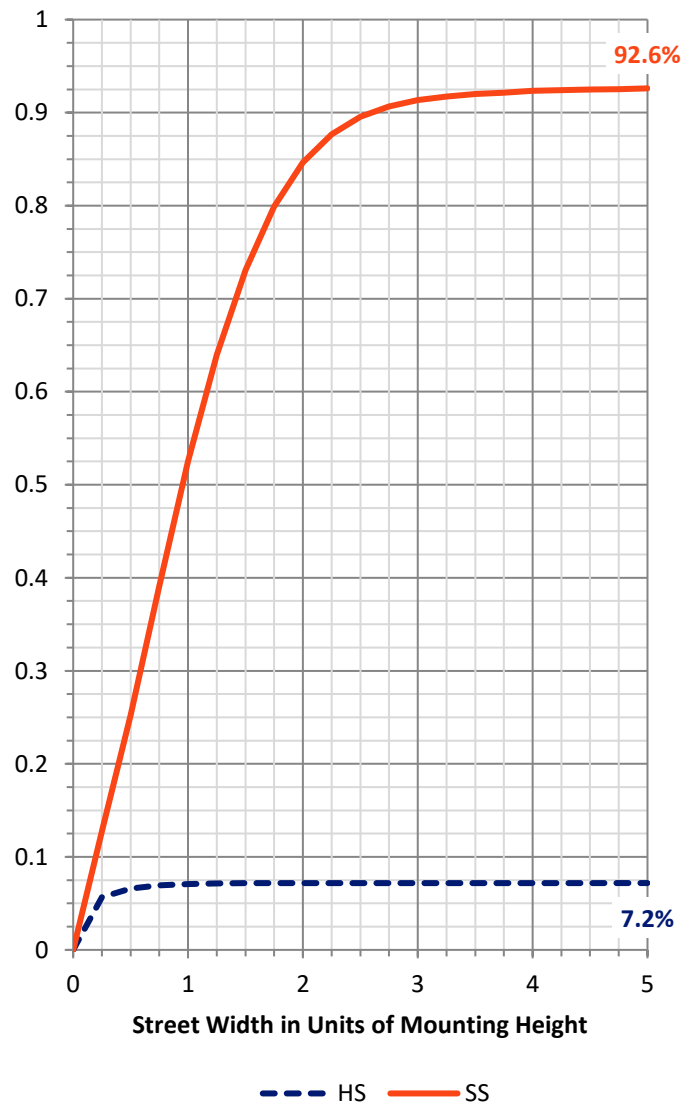
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	261.7	0.0	261.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3361.3	0.0	3361.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3623.0	0.0	3623.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	1.5
10°-20°	121.6	3.4
20°-30°	195.9	5.4
30°-40°	340.6	9.4
40°-50°	562.8	15.5
50°-60°	869.4	24.0
60°-70°	1061.7	29.3
70°-80°	402.9	11.1
80°-90°	13.4	0.4
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°	3623.0	100.0
0°-180°	3623.0	100.0



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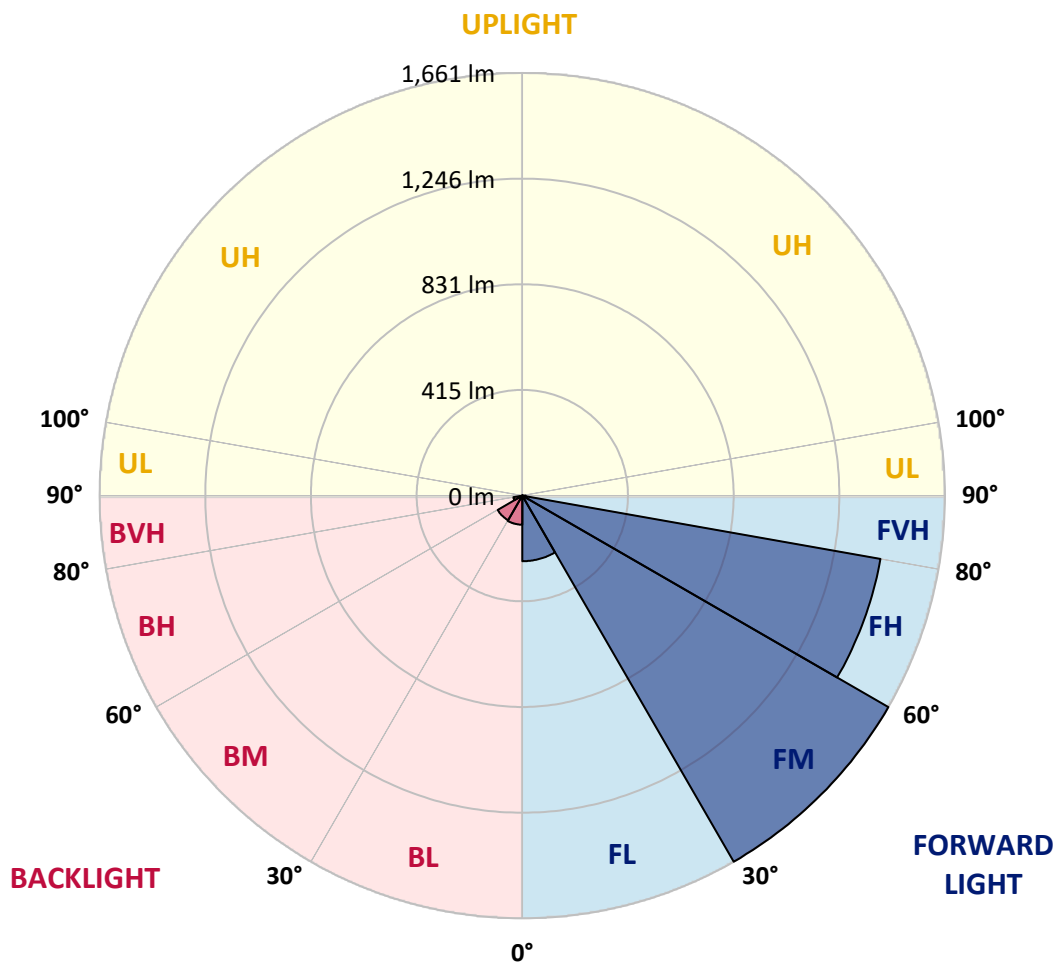
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.7	7.1			
FM (30°-60°)	1661.2	45.9			
FH (60°-80°)	1429.1	39.4			G1/1800
FVH (80°-90°)	13.3	0.4			G1/100
BL (0°-30°)	114.3	3.2	B1/500		
BM (30°-60°)	111.7	3.1	B0/220		
BH (60°-80°)	35.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8
2.5°	633.3	633.6	635.1	639.0	644.9	649.7	653.8	660.5	665.1	665.6	667.1
5°	589.6	586.5	589.6	599.6	608.5	622.1	638.7	655.3	670.2	671.2	678.4
7.5°	540.5	543.1	547.9	558.1	575.0	595.7	619.8	649.5	677.6	680.2	694.2
10°	490.6	496.2	504.2	519.8	543.3	570.2	602.9	645.4	689.4	692.9	717.2
12.5°	444.6	447.1	456.8	477.8	507.0	544.8	590.1	643.1	702.4	706.8	741.8
15°	409.3	412.6	421.0	440.0	472.5	521.1	579.6	642.3	715.2	721.3	766.4
17.5°	402.6	404.7	408.2	421.0	449.4	502.1	570.2	642.0	727.5	734.9	789.1
20°	430.0	428.2	424.6	423.3	438.9	487.5	563.3	644.1	739.2	747.7	813.2
22.5°	498.5	500.8	479.9	455.1	449.9	485.2	562.2	653.8	757.9	767.9	840.0
25°	644.1	626.4	593.7	534.4	489.6	499.3	573.7	676.8	779.7	790.7	864.3
27.5°	805.0	799.6	748.7	651.0	567.6	529.0	594.2	694.5	786.8	798.1	878.1
30°	963.1	969.5	911.1	803.2	680.9	584.0	613.4	701.1	793.2	805.0	895.8
32.5°	1109.6	1117.3	1066.1	959.2	814.4	679.1	646.4	727.0	820.1	832.1	925.2
35°	1225.0	1226.0	1187.4	1102.2	960.3	794.8	717.8	772.2	856.4	870.5	956.4
37.5°	1330.9	1329.4	1284.1	1210.7	1081.8	909.6	807.5	824.4	897.8	912.4	1001.4
40°	1409.4	1410.4	1395.9	1326.8	1195.1	1015.8	878.7	873.3	967.4	990.2	1066.9
42.5°	1461.9	1471.3	1478.5	1443.4	1337.5	1146.5	987.9	977.9	1088.1	1107.1	1159.5
45°	1504.3	1521.2	1557.0	1555.2	1474.4	1306.9	1137.8	1117.3	1259.3	1279.5	1277.4
47.5°	1535.3	1552.4	1611.8	1647.6	1603.1	1462.4	1326.3	1308.6	1463.7	1485.7	1407.6
50°	1551.1	1571.6	1647.3	1716.6	1703.6	1612.3	1541.2	1542.2	1710.5	1731.7	1558.6
52.5°	1514.0	1540.6	1666.2	1791.1	1816.4	1755.8	1742.5	1776.2	1930.2	1948.4	1694.9
55°	1395.6	1429.1	1640.4	1854.5	1947.1	1925.1	1971.1	2022.6	2170.4	2182.2	1834.8
57.5°	1320.7	1356.2	1564.2	1908.5	2104.2	2137.9	2210.8	2248.4	2418.3	2448.2	1995.4
60°	1257.5	1285.4	1501.5	1920.0	2263.8	2398.3	2469.2	2508.1	2724.2	2743.6	2172.2
62.5°	1152.4	1184.3	1395.6	1839.7	2344.1	2606.8	2753.6	2736.2	2960.8	2974.4	2280.7
65°	983.3	986.1	1180.7	1637.8	2261.2	2742.1	2953.4	2880.5	3073.9	3083.1	2272.2
67.5°	733.9	761.0	908.3	1287.4	1910.0	2626.5	3018.1	2884.3	3002.5	2976.9	2091.9
70°	472.7	493.4	615.7	892.7	1377.2	2191.9	2803.5	2686.6	2635.2	2578.4	1712.3
72.5°	218.2	244.8	365.8	510.1	816.8	1561.4	2275.8	2182.7	1896.7	1756.5	1088.4
75°	95.2	101.8	180.6	269.1	382.9	825.7	1500.5	1354.9	856.7	782.5	435.6
77.5°	58.1	62.4	94.6	144.3	150.4	314.6	808.3	591.1	264.7	233.5	118.2
80°	39.4	44.3	68.8	75.5	51.4	87.7	303.4	157.8	53.5	51.2	25.3
82.5°	19.2	24.3	50.9	42.2	22.3	28.1	88.2	33.8	15.6	14.6	9.0
85°	2.8	4.9	28.6	27.6	10.0	6.7	15.6	8.4	5.4	5.1	4.1
87.5°	0.0	0.0	9.7	4.3	1.0	1.0	1.8	1.8	2.0	1.8	2.0
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°	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8
2.5°	667.9	669.2	664.3	657.4	650.0	642.6	632.1	622.6	617.0	620.3	612.1
5°	679.9	678.9	666.1	645.1	617.2	583.7	550.5	522.1	512.9	499.1	497.5
7.5°	696.5	693.7	666.6	618.5	555.6	492.7	431.3	390.6	367.3	347.6	348.1
10°	719.8	711.6	660.7	571.7	468.1	373.2	294.9	241.2	217.9	210.5	204.6
12.5°	743.8	728.0	644.3	508.5	364.5	255.0	179.3	146.6	132.2	127.6	127.1
15°	765.3	740.3	615.7	432.5	265.0	162.9	122.3	111.5	109.7	110.0	109.7
17.5°	786.6	750.0	576.0	352.0	180.1	116.9	105.1	102.6	103.3	104.4	104.1
20°	804.2	752.0	525.4	268.6	127.4	102.6	98.7	98.2	99.0	99.8	99.8
22.5°	823.4	753.6	465.3	186.0	104.1	95.4	93.4	93.4	94.4	95.4	95.7
25°	837.7	745.1	393.4	133.5	91.8	88.5	87.5	87.7	88.8	89.3	89.0
27.5°	840.0	721.3	317.2	102.3	83.4	80.1	79.0	80.1	78.8	79.6	79.0
30°	842.1	691.2	239.9	86.2	75.7	70.6	69.1	67.5	66.5	65.2	65.0
32.5°	848.5	655.6	175.2	77.5	68.6	62.9	59.3	55.0	51.7	50.6	50.4
35°	851.3	612.9	128.7	70.6	62.2	56.0	49.6	43.5	38.6	36.8	38.1
37.5°	862.0	571.4	99.8	65.5	56.5	48.9	40.7	33.0	28.4	27.4	27.9
40°	884.0	526.4	83.6	61.1	51.7	42.2	32.2	24.8	21.7	20.7	20.5
42.5°	919.3	481.7	74.4	57.0	46.8	35.6	25.3	19.4	16.9	16.1	16.1
45°	962.3	438.7	68.0	52.7	41.7	28.6	20.0	15.6	14.1	13.6	13.6
47.5°	1018.8	401.1	62.7	48.3	36.1	22.8	16.1	13.6	12.5	12.8	13.0
50°	1076.1	373.2	56.8	43.5	29.7	18.7	13.8	12.0	11.8	12.0	12.0
52.5°	1119.4	356.8	48.9	36.8	23.3	15.6	12.3	11.3	11.0	10.5	10.5
55°	1177.7	353.3	38.9	29.9	18.4	13.0	11.0	10.2	9.5	9.0	8.7
57.5°	1252.6	357.3	29.9	23.3	14.3	10.7	9.7	8.4	7.4	6.4	6.4
60°	1299.2	348.1	23.3	17.9	10.5	8.7	7.4	6.1	4.9	4.1	3.8
62.5°	1284.3	309.3	18.4	13.3	7.4	6.4	4.9	4.1	2.8	2.0	1.8
65°	1207.9	249.7	14.8	9.2	5.4	3.8	2.6	2.6	1.3	0.3	0.0
67.5°	1057.2	184.9	11.8	6.1	3.1	1.8	1.3	0.8	0.0	0.0	0.0
70°	860.5	133.5	9.2	3.8	1.8	1.3	0.5	0.3	0.0	0.0	0.0
72.5°	546.4	76.5	7.2	2.3	1.3	0.5	0.0	0.0	0.0	0.0	0.0
75°	211.3	29.9	4.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	59.9	14.1	2.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.6	6.1	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.3	0.0	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)