

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: P450256

Luminaire Tested: **GALN-SA1A-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3828 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

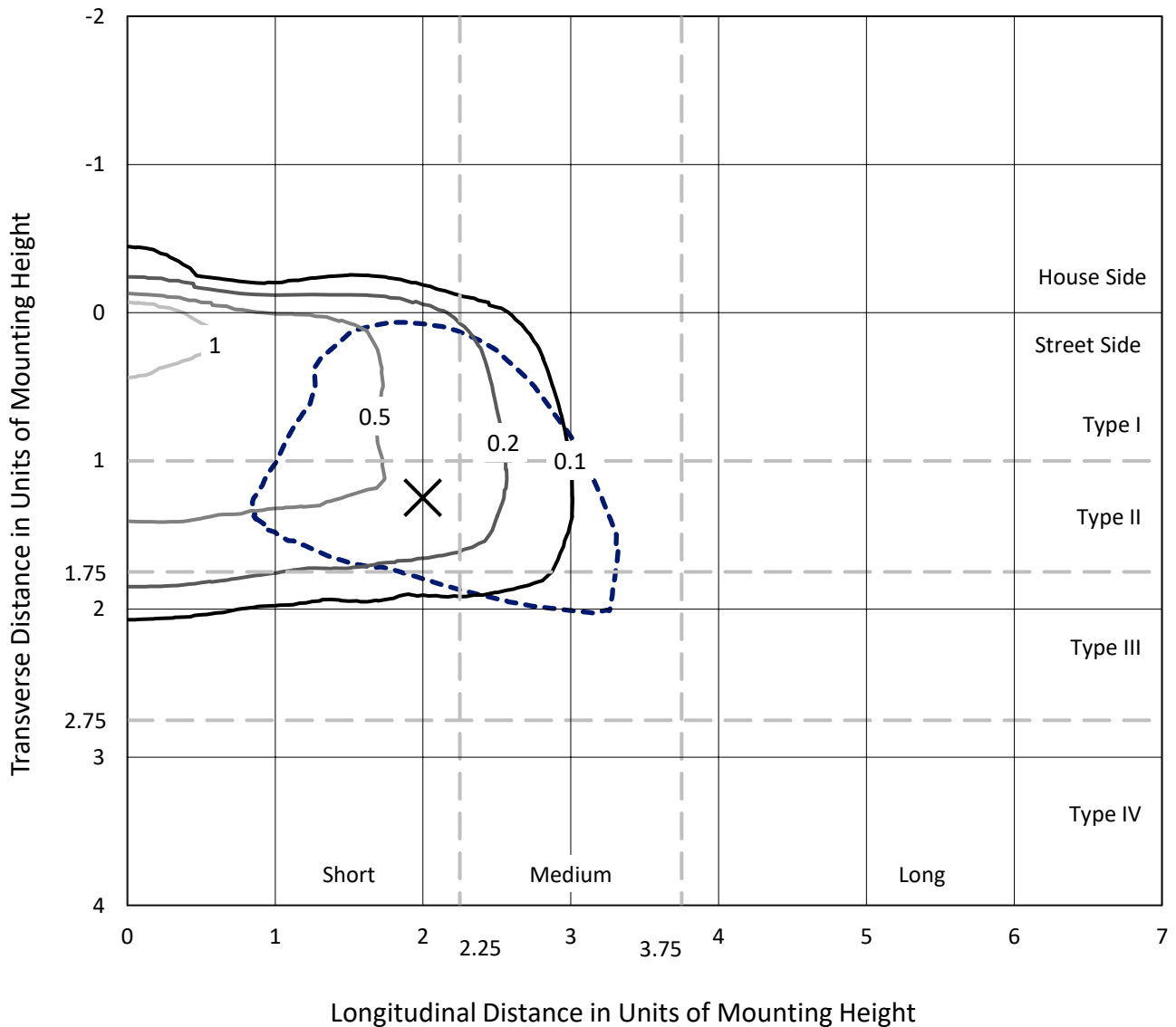
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

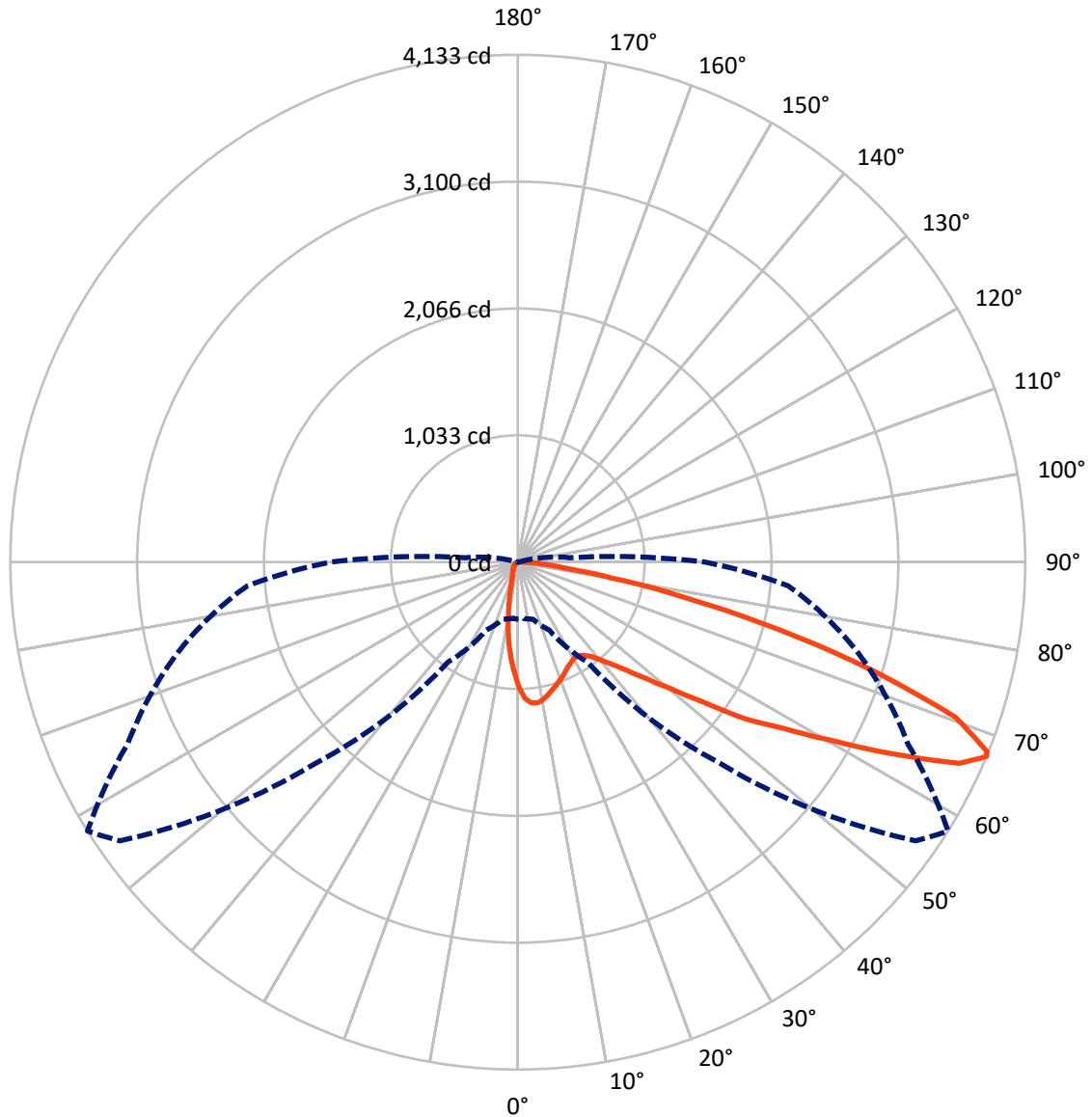
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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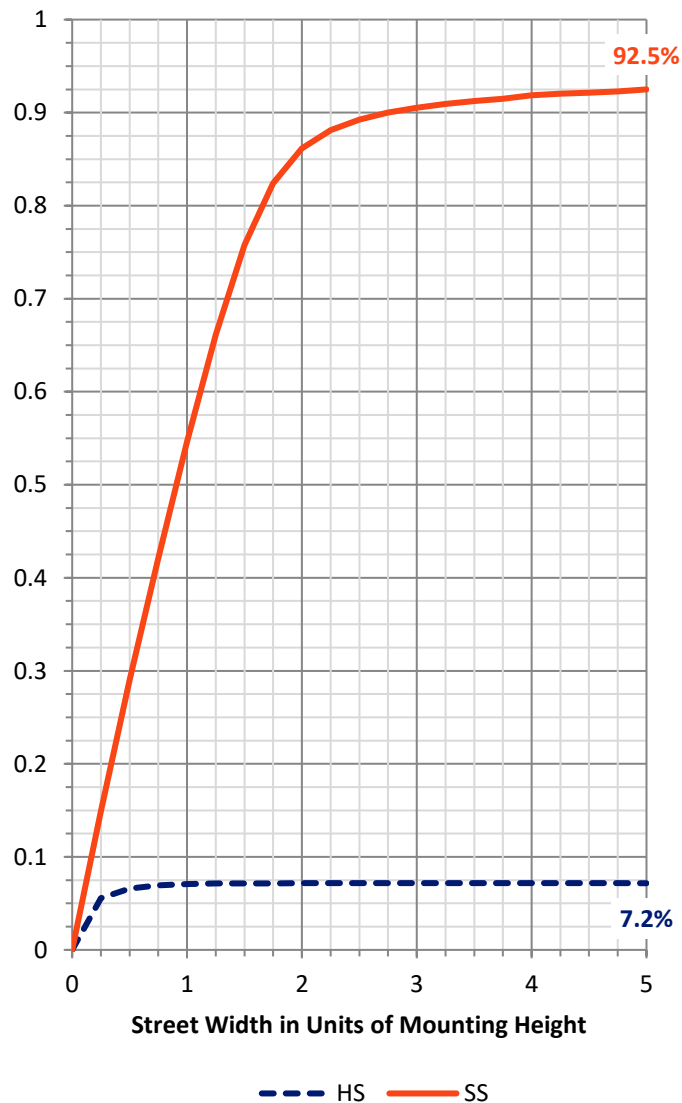
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	276.2	0.0	276.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3551.7	0.0	3551.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3828.0	0.0	3828.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	2.2
10°-20°	177.8	4.6
20°-30°	241.0	6.3
30°-40°	334.2	8.7
40°-50°	533.1	13.9
50°-60°	921.5	24.1
60°-70°	1052.6	27.5
70°-80°	438.8	11.5
80°-90°	46.5	1.2
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°	3828.0	100.0
0°-180°	3828.0	100.0

**Coefficient of Utilization**



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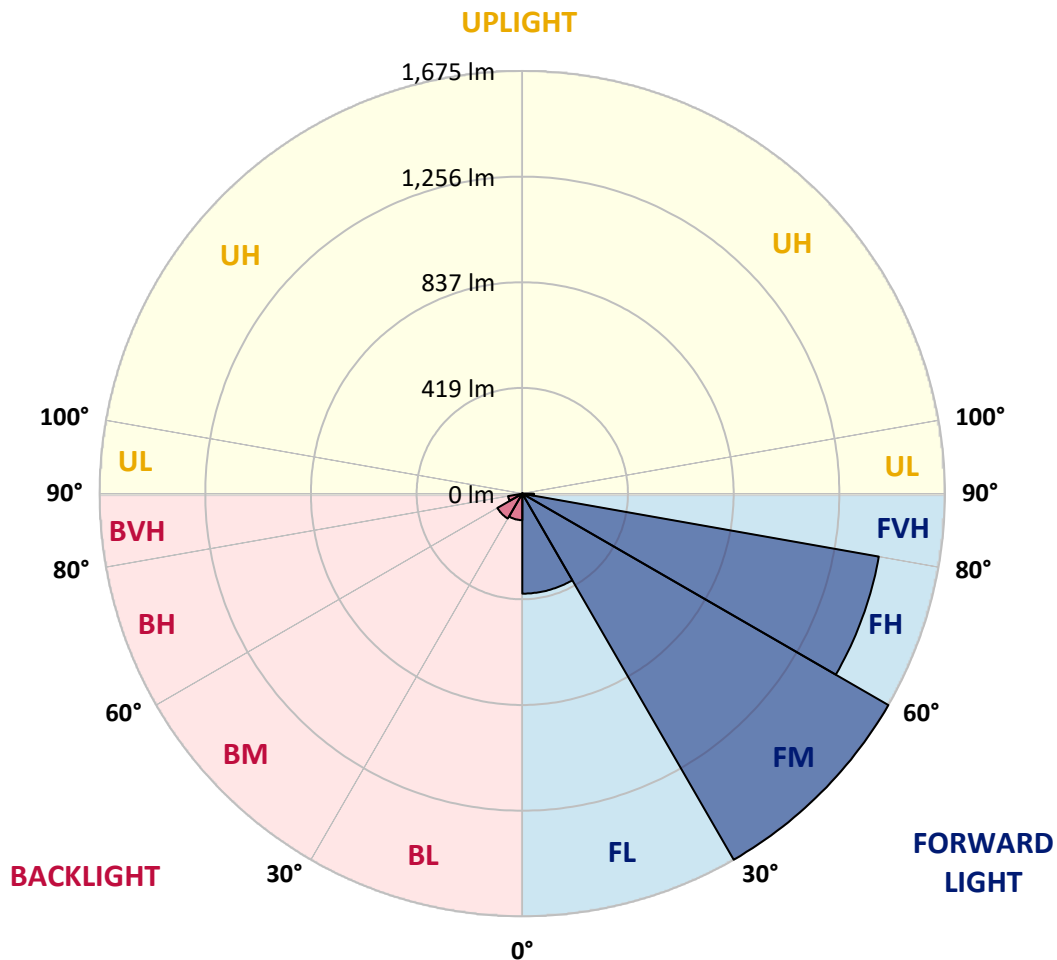
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.3	10.4			
FM (30°-60°)	1674.9	43.8			
FH (60°-80°)	1434.4	37.5			G1/1800
FVH (80°-90°)	46.2	1.2			G1/100
BL (0°-30°)	104.9	2.7	B0/110		
BM (30°-60°)	113.9	3.0	B0/220		
BH (60°-80°)	57.1	1.5	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8
2.5°	1177.7	1179.5	1172.9	1167.5	1153.7	1138.8	1119.1	1108.6	1090.7	1059.8	1025.5
5°	1205.3	1207.6	1206.6	1205.3	1200.0	1185.6	1160.6	1151.4	1125.0	1074.6	1012.7
7.5°	1143.9	1152.4	1153.4	1163.4	1172.9	1174.1	1164.7	1157.8	1133.5	1074.4	990.0
10°	1062.6	1068.2	1076.4	1087.9	1110.7	1129.6	1138.8	1137.8	1123.7	1066.4	963.4
12.5°	980.5	983.6	996.1	1015.8	1043.7	1075.9	1100.5	1105.3	1105.6	1057.0	941.1
15°	909.9	908.6	918.3	941.1	980.2	1020.7	1064.6	1072.3	1084.6	1047.8	920.4
17.5°	849.5	856.2	857.7	882.8	918.8	971.3	1027.3	1040.9	1065.4	1039.8	903.2
20°	812.2	815.8	819.1	833.1	865.6	920.9	992.3	1010.9	1047.5	1032.7	884.1
22.5°	801.2	803.5	800.7	805.0	828.0	877.1	954.1	979.0	1030.4	1026.0	868.4
25°	809.6	811.9	805.3	800.1	808.1	841.6	917.3	947.5	1016.6	1024.7	856.7
27.5°	830.1	834.4	825.2	816.0	811.4	822.4	888.4	923.4	1007.1	1030.9	851.3
30°	862.1	864.6	857.7	846.4	836.0	825.0	873.3	906.8	1004.5	1045.2	850.8
32.5°	896.8	902.2	898.4	891.0	877.4	851.3	877.7	907.3	1010.7	1065.9	857.2
35°	939.8	946.0	949.5	948.0	930.6	898.1	905.3	930.4	1027.0	1104.0	874.6
37.5°	982.0	987.4	1007.6	1014.5	999.2	968.5	959.0	975.6	1063.1	1153.9	906.1
40°	1030.4	1037.5	1065.9	1092.3	1084.9	1052.6	1035.2	1049.0	1118.4	1229.1	965.7
42.5°	1076.7	1089.5	1132.7	1179.2	1186.2	1150.1	1138.6	1143.2	1200.2	1337.3	1048.8
45°	1142.4	1154.4	1210.2	1273.4	1305.9	1277.7	1266.0	1265.2	1312.5	1489.5	1183.6
47.5°	1237.3	1248.1	1313.8	1376.2	1434.0	1437.9	1415.6	1423.3	1453.7	1667.6	1348.8
50°	1353.7	1379.0	1422.3	1487.2	1564.5	1626.9	1633.8	1623.6	1649.7	1873.8	1547.3
52.5°	1522.8	1532.5	1572.2	1625.6	1716.2	1822.1	1904.2	1890.1	1881.9	2070.2	1747.9
55°	1648.9	1661.9	1723.6	1797.0	1929.8	2069.4	2247.5	2252.3	2149.0	2259.0	1944.1
57.5°	1610.8	1630.7	1724.1	1871.7	2163.6	2418.9	2551.4	2554.7	2396.1	2442.4	2165.6
60°	1415.1	1424.6	1558.3	1755.3	2183.5	2797.5	2982.4	2955.5	2647.6	2647.6	2361.3
62.5°	1003.5	1018.3	1126.8	1416.6	1972.0	2928.9	3498.6	3443.1	2993.9	2843.8	2478.0
65°	641.3	627.0	698.9	894.3	1469.1	2734.8	3948.1	3951.4	3319.8	2922.3	2414.3
67°	464.5	458.9	479.6	611.4	996.1	2298.9	3957.5	4132.7	3507.0	2872.7	2210.6
67.5°	424.9	429.2	444.3	551.5	905.0	2092.0	3914.5	4122.0	3549.3	2842.7	2137.0
70°	322.1	314.6	331.0	390.1	542.6	1319.7	3367.4	3780.5	3496.8	2545.7	1707.5
72.5°	236.9	236.1	258.9	319.0	417.7	702.9	2527.8	3031.3	2856.8	1938.5	1075.1
75°	159.9	167.0	203.4	266.5	378.6	455.8	1723.3	2199.1	1983.2	1100.7	439.5
77.5°	91.1	91.6	131.0	214.1	340.0	366.8	1021.2	1401.0	1049.8	366.1	130.5
80°	39.4	43.2	65.0	155.5	281.9	324.9	585.5	770.0	424.6	77.5	42.2
82.5°	14.6	17.1	28.6	95.7	205.7	267.6	353.8	367.6	144.0	27.4	26.3
85°	0.0	0.5	10.5	44.8	107.2	119.5	236.4	217.9	63.7	13.0	17.1
87.5°	0.0	0.0	0.0	4.6	14.1	44.5	73.4	81.9	15.3	4.6	4.1
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°	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8	1014.8
2.5°	1007.1	990.5	948.8	907.1	876.1	850.3	811.4	790.2	778.9	762.3	763.3
5°	981.8	948.0	874.6	798.6	737.2	677.4	605.7	576.8	552.5	538.7	529.5
7.5°	944.2	894.3	785.6	684.3	589.9	485.3	406.7	354.3	319.0	305.9	293.4
10°	903.0	836.7	695.3	554.8	423.9	315.9	249.4	201.3	184.2	168.3	169.9
12.5°	864.9	784.3	612.4	437.9	297.0	200.8	156.6	136.9	131.2	129.4	129.4
15°	833.7	734.2	523.4	329.2	203.6	144.3	125.3	120.0	117.9	117.4	117.4
17.5°	800.4	686.6	443.0	243.3	148.1	120.7	114.3	110.8	110.0	109.5	109.5
20°	770.7	638.7	366.8	181.1	119.7	108.7	104.6	102.3	101.6	101.0	101.3
22.5°	742.6	596.3	295.2	136.9	105.4	99.0	94.9	92.6	91.1	89.8	90.0
25°	717.5	555.3	237.4	112.0	94.9	89.3	85.2	81.9	78.5	77.0	76.7
27.5°	699.9	519.5	184.9	95.9	85.4	79.3	74.2	70.1	65.7	63.4	62.9
30°	685.3	483.2	146.3	84.7	76.0	70.1	63.7	57.8	53.2	50.9	49.9
32.5°	675.8	448.7	115.4	75.5	68.0	60.9	53.7	47.8	42.7	40.4	39.9
35°	674.3	419.8	94.4	67.8	60.9	53.2	45.8	39.4	35.0	32.7	32.2
37.5°	685.3	397.5	79.0	61.6	55.0	46.6	38.4	32.5	28.6	26.9	26.6
40°	714.7	383.4	68.6	56.5	49.6	40.4	32.7	27.6	23.8	22.0	22.0
42.5°	770.7	384.0	61.6	51.7	44.3	34.5	27.9	23.0	19.7	18.2	17.7
45°	858.2	401.4	55.8	46.8	39.1	29.9	23.8	18.9	15.6	14.3	14.3
47.5°	975.4	435.9	50.6	42.0	34.5	25.6	20.2	15.3	12.5	11.3	11.3
50°	1128.6	491.4	46.3	37.9	30.7	22.0	16.4	12.5	9.7	8.7	8.4
52.5°	1288.7	560.0	41.2	34.3	26.3	18.7	13.3	9.7	7.4	6.7	6.4
55°	1465.5	627.0	36.3	30.7	21.5	15.6	10.5	7.7	5.4	4.6	4.6
57.5°	1643.8	692.7	30.4	25.6	16.9	11.5	8.2	5.6	3.6	2.8	2.8
60°	1794.7	713.9	25.8	20.7	12.8	8.2	5.9	3.6	2.0	1.3	1.3
62.5°	1815.4	642.3	21.7	15.9	9.2	5.6	3.1	2.0	0.8	0.5	0.5
65°	1702.9	521.8	18.2	12.0	6.1	2.8	1.3	0.8	0.3	0.0	0.0
67°	1525.9	423.1	14.8	9.0	4.3	1.8	0.8	0.3	0.0	0.0	0.0
67.5°	1480.6	403.4	14.3	8.4	3.8	1.5	0.5	0.3	0.0	0.0	0.0
70°	1161.9	302.1	10.2	5.1	2.3	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	722.1	170.9	7.4	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0
75°	272.9	59.9	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	84.9	22.8	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.6	8.7	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	3.6	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.5	0.3	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)