

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: P450764

Luminaire Tested: **GALN-SA1C-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450764  
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-SA1C-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA 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: 5570 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

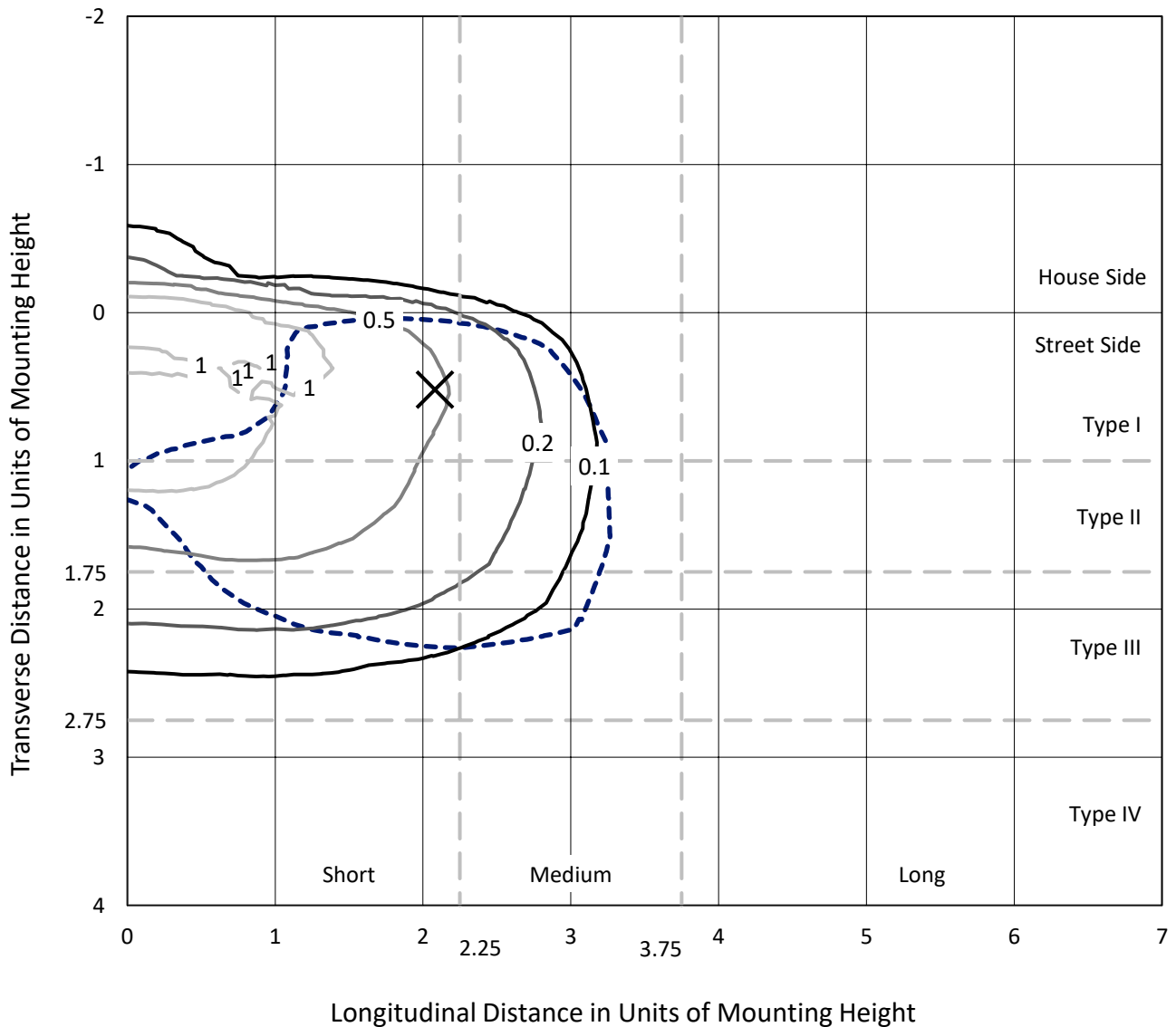
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

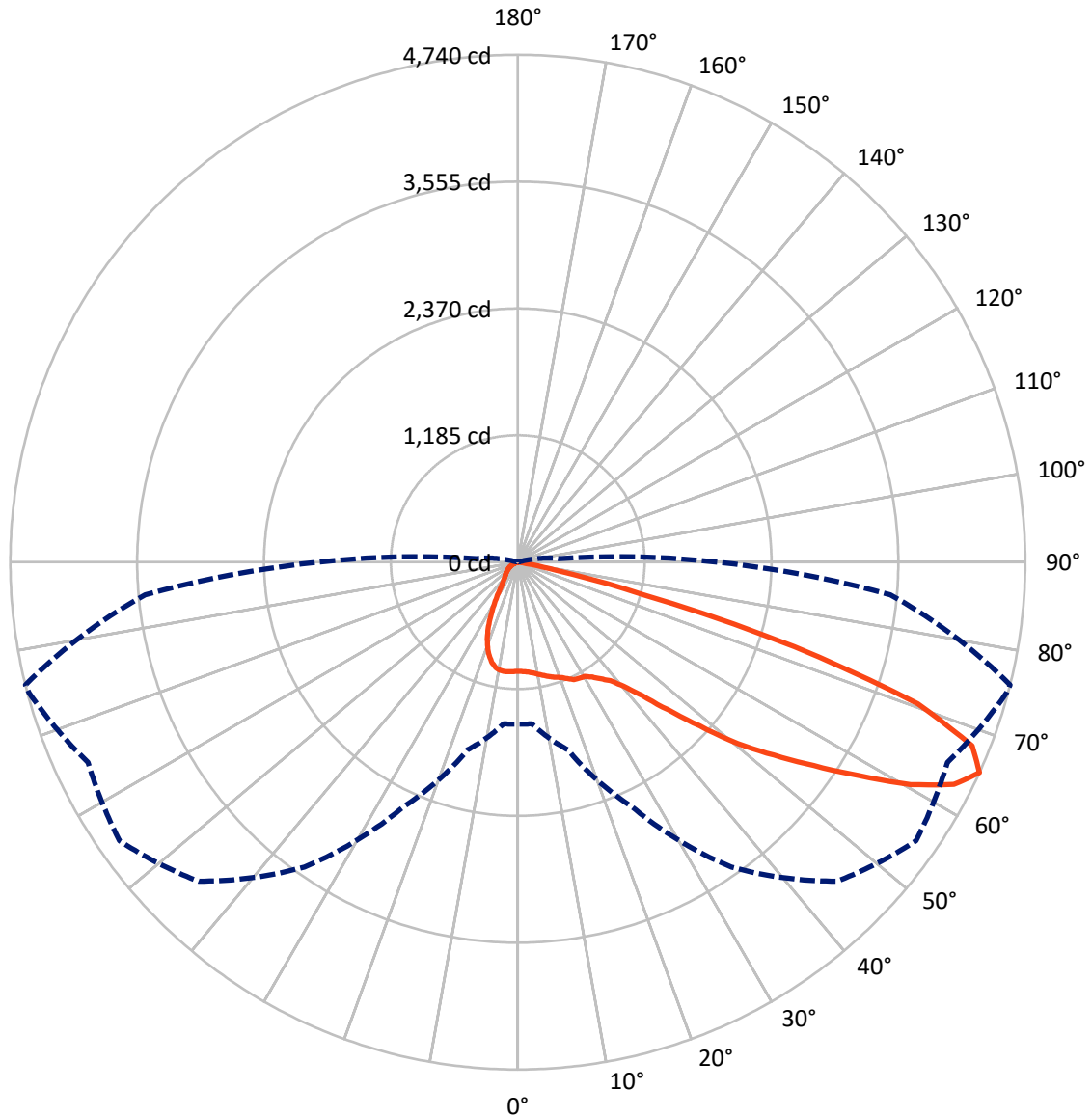
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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CATALOG NUMBER: GALN-SA1C-750-U-T3R-HSS

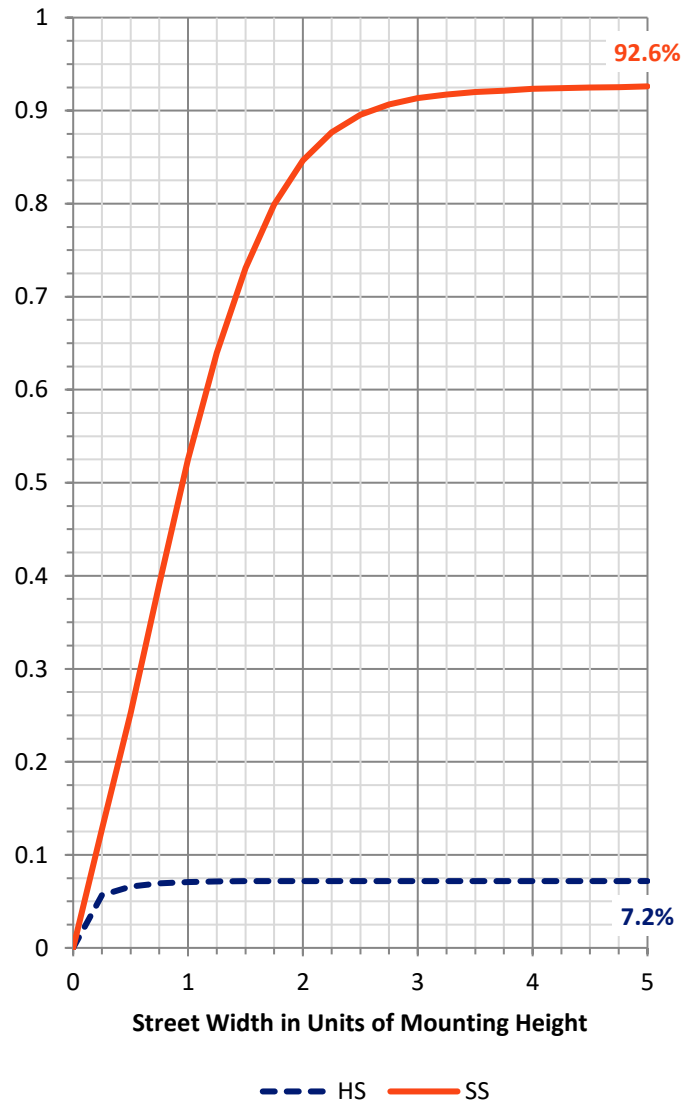
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	402.3	0.0	402.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5167.7	0.0	5167.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.5
10°-20°	186.9	3.4
20°-30°	301.2	5.4
30°-40°	523.6	9.4
40°-50°	865.3	15.5
50°-60°	1336.7	24.0
60°-70°	1632.3	29.3
70°-80°	619.5	11.1
80°-90°	20.7	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°	5570.0	100.0
0°-180°	5570.0	100.0



REPORT NUMBER: P450764

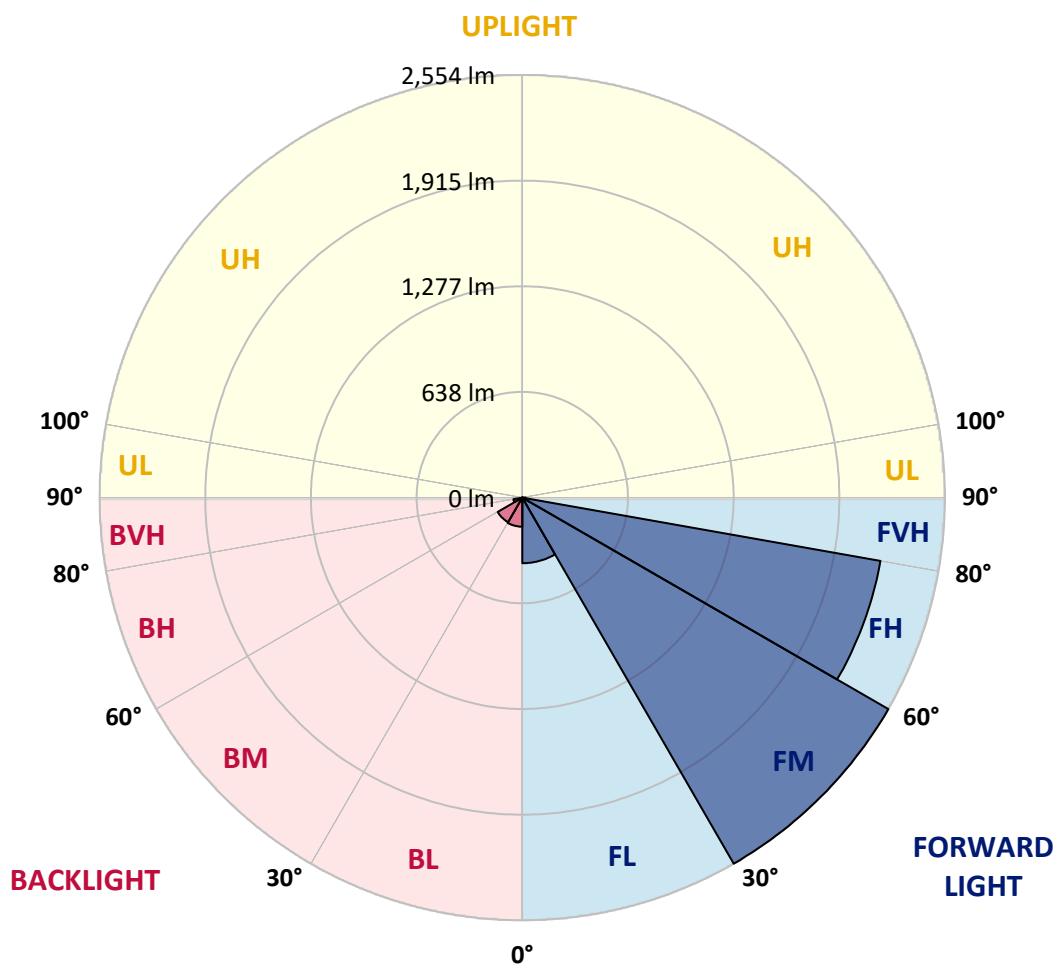
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.2	7.1			
FM (30°-60°)	2553.9	45.9			
FH (60°-80°)	2197.2	39.4			G2/5000
FVH (80°-90°)	20.4	0.4			G1/100
BL (0°-30°)	175.7	3.2	B1/500		
BM (30°-60°)	171.7	3.1	B0/220		
BH (60°-80°)	54.6	1.0	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: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9
2.5°	973.7	974.1	976.5	982.4	991.4	998.9	1005.2	1015.4	1022.5	1023.3	1025.6
5°	906.5	901.7	906.5	921.8	935.6	956.4	982.0	1007.5	1030.3	1031.9	1042.9
7.5°	831.0	834.9	842.4	858.1	884.0	915.9	952.9	998.5	1041.7	1045.7	1067.3
10°	754.3	762.9	775.1	799.1	835.3	876.6	926.9	992.2	1059.8	1065.3	1102.7
12.5°	683.5	687.4	702.4	734.6	779.4	837.6	907.2	988.6	1079.9	1086.6	1140.4
15°	629.2	634.3	647.3	676.4	726.3	801.1	891.1	987.5	1099.5	1109.0	1178.2
17.5°	619.0	622.1	627.6	647.3	691.0	772.0	876.6	987.1	1118.4	1129.8	1213.2
20°	661.1	658.3	652.8	650.8	674.8	749.5	866.0	990.2	1136.5	1149.5	1250.2
22.5°	766.5	770.0	737.8	699.6	691.7	746.0	864.4	1005.2	1165.2	1180.6	1291.5
25°	990.2	963.1	912.8	821.5	752.7	767.6	882.1	1040.6	1198.6	1215.6	1328.8
27.5°	1237.6	1229.3	1151.1	1000.8	872.6	813.3	913.5	1067.7	1209.7	1227.0	1350.1
30°	1480.6	1490.4	1400.8	1234.8	1046.9	897.8	943.0	1077.9	1219.5	1237.6	1377.2
32.5°	1706.0	1717.7	1639.1	1474.7	1252.1	1044.1	993.8	1117.6	1260.8	1279.3	1422.4
35°	1883.3	1884.9	1825.5	1694.5	1476.3	1221.9	1103.5	1187.2	1316.6	1338.3	1470.4
37.5°	2046.1	2043.8	1974.2	1861.3	1663.1	1398.4	1241.5	1267.5	1380.3	1402.8	1539.6
40°	2166.9	2168.4	2146.0	2039.8	1837.3	1561.6	1350.8	1342.6	1487.3	1522.3	1640.3
42.5°	2247.5	2262.0	2273.0	2219.2	2056.3	1762.6	1518.8	1503.4	1672.9	1702.0	1782.6
45°	2312.7	2338.7	2393.8	2391.0	2266.7	2009.2	1749.2	1717.7	1936.0	1967.1	1963.9
47.5°	2360.3	2386.7	2477.9	2533.0	2464.5	2248.3	2039.0	2011.9	2250.2	2284.0	2164.1
50°	2384.7	2416.2	2532.6	2639.2	2619.1	2478.7	2369.4	2371.0	2629.7	2662.4	2396.1
52.5°	2327.7	2368.6	2561.7	2753.6	2792.5	2699.3	2678.9	2730.8	2967.5	2995.4	2605.7
55°	2145.6	2197.1	2522.0	2851.1	2993.5	2959.7	3030.4	3109.5	3336.8	3354.9	2820.8
57.5°	2030.4	2085.1	2404.8	2934.1	3234.9	3286.8	3398.9	3456.7	3717.9	3763.9	3067.8
60°	1933.3	1976.1	2308.4	2951.8	3480.3	3687.2	3796.1	3855.9	4188.2	4218.1	3339.5
62.5°	1771.6	1820.8	2145.6	2828.3	3603.8	4007.7	4233.4	4206.7	4552.0	4572.8	3506.3
65°	1511.7	1516.0	1815.3	2518.0	3476.4	4215.7	4540.6	4428.5	4725.8	4739.9	3493.3
67.5°	1128.3	1169.9	1396.5	1979.3	2936.5	4038.0	4640.0	4434.4	4616.1	4576.7	3216.1
70°	726.7	758.6	946.6	1372.5	2117.3	3369.8	4310.1	4130.4	4051.3	3964.0	2632.5
72.5°	335.4	376.3	562.4	784.2	1255.7	2400.4	3498.8	3355.7	2916.0	2700.5	1673.3
75°	146.3	156.5	277.6	413.7	588.7	1269.4	2306.8	2083.1	1317.0	1203.0	669.7
77.5°	89.3	96.0	145.5	221.8	231.2	483.7	1242.7	908.8	407.0	359.0	181.7
80°	60.6	68.0	105.8	116.0	79.0	134.9	466.4	242.6	82.2	78.7	38.9
82.5°	29.5	37.4	78.3	64.9	34.2	43.3	135.7	51.9	24.0	22.4	13.8
85°	4.3	7.5	44.0	42.5	15.3	10.2	24.0	13.0	8.3	7.9	6.3
87.5°	0.0	0.0	14.9	6.7	1.6	1.6	2.8	2.8	3.1	2.8	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450764

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9	1018.9
2.5°	1026.8	1028.8	1021.3	1010.7	999.3	987.9	971.7	957.2	948.5	953.6	941.1
5°	1045.3	1043.7	1024.0	991.8	948.9	897.4	846.3	802.6	788.5	767.2	764.9
7.5°	1070.8	1066.5	1024.8	950.9	854.2	757.4	663.0	600.5	564.7	534.4	535.2
10°	1106.6	1094.0	1015.8	878.9	719.7	573.8	453.4	370.8	335.1	323.7	314.6
12.5°	1143.6	1119.2	990.6	781.8	560.4	392.1	275.7	225.3	203.3	196.2	195.4
15°	1176.6	1138.1	946.6	665.0	407.4	250.5	188.0	171.5	168.7	169.1	168.7
17.5°	1209.3	1153.0	885.6	541.1	276.9	179.7	161.6	157.7	158.9	160.4	160.1
20°	1236.4	1156.2	807.8	412.9	195.8	157.7	151.8	151.0	152.2	153.4	153.4
22.5°	1265.9	1158.5	715.3	285.9	160.1	146.7	143.5	143.5	145.1	146.7	147.1
25°	1287.9	1145.6	604.8	205.3	141.2	136.1	134.5	134.9	136.5	137.2	136.9
27.5°	1291.5	1109.0	487.6	157.3	128.2	123.1	121.5	123.1	121.1	122.3	121.5
30°	1294.6	1062.6	368.9	132.5	116.4	108.5	106.2	103.8	102.2	100.3	99.9
32.5°	1304.4	1007.9	269.4	119.2	105.4	96.7	91.2	84.6	79.4	77.9	77.5
35°	1308.8	942.2	197.8	108.5	95.6	86.1	76.3	66.9	59.4	56.6	58.6
37.5°	1325.3	878.5	153.4	100.7	86.9	75.1	62.5	50.7	43.7	42.1	42.9
40°	1359.1	809.3	128.6	94.0	79.4	64.9	49.6	38.1	33.4	31.9	31.5
42.5°	1413.4	740.5	114.4	87.7	72.0	54.7	38.9	29.9	26.0	24.8	24.8
45°	1479.4	674.4	104.6	81.0	64.1	44.0	30.7	24.0	21.6	20.8	20.8
47.5°	1566.3	616.6	96.3	74.3	55.4	35.0	24.8	20.8	19.3	19.7	20.1
50°	1654.4	573.8	87.3	66.9	45.6	28.7	21.2	18.5	18.1	18.5	18.5
52.5°	1720.9	548.6	75.1	56.6	35.8	24.0	18.9	17.3	16.9	16.1	16.1
55°	1810.6	543.1	59.8	46.0	28.3	20.1	16.9	15.7	14.6	13.8	13.4
57.5°	1925.8	549.4	46.0	35.8	22.0	16.5	14.9	13.0	11.4	9.8	9.8
60°	1997.4	535.2	35.8	27.5	16.1	13.4	11.4	9.4	7.5	6.3	5.9
62.5°	1974.5	475.4	28.3	20.4	11.4	9.8	7.5	6.3	4.3	3.1	2.8
65°	1857.0	383.8	22.8	14.2	8.3	5.9	3.9	3.9	2.0	0.4	0.0
67.5°	1625.3	284.3	18.1	9.4	4.7	2.8	2.0	1.2	0.0	0.0	0.0
70°	1322.9	205.3	14.2	5.9	2.8	2.0	0.8	0.4	0.0	0.0	0.0
72.5°	840.0	117.6	11.0	3.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0
75°	324.8	46.0	7.5	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	92.0	21.6	4.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.0	9.4	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.4	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)