

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: P451752

Luminaire Tested: **GALN-SA2C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7484 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

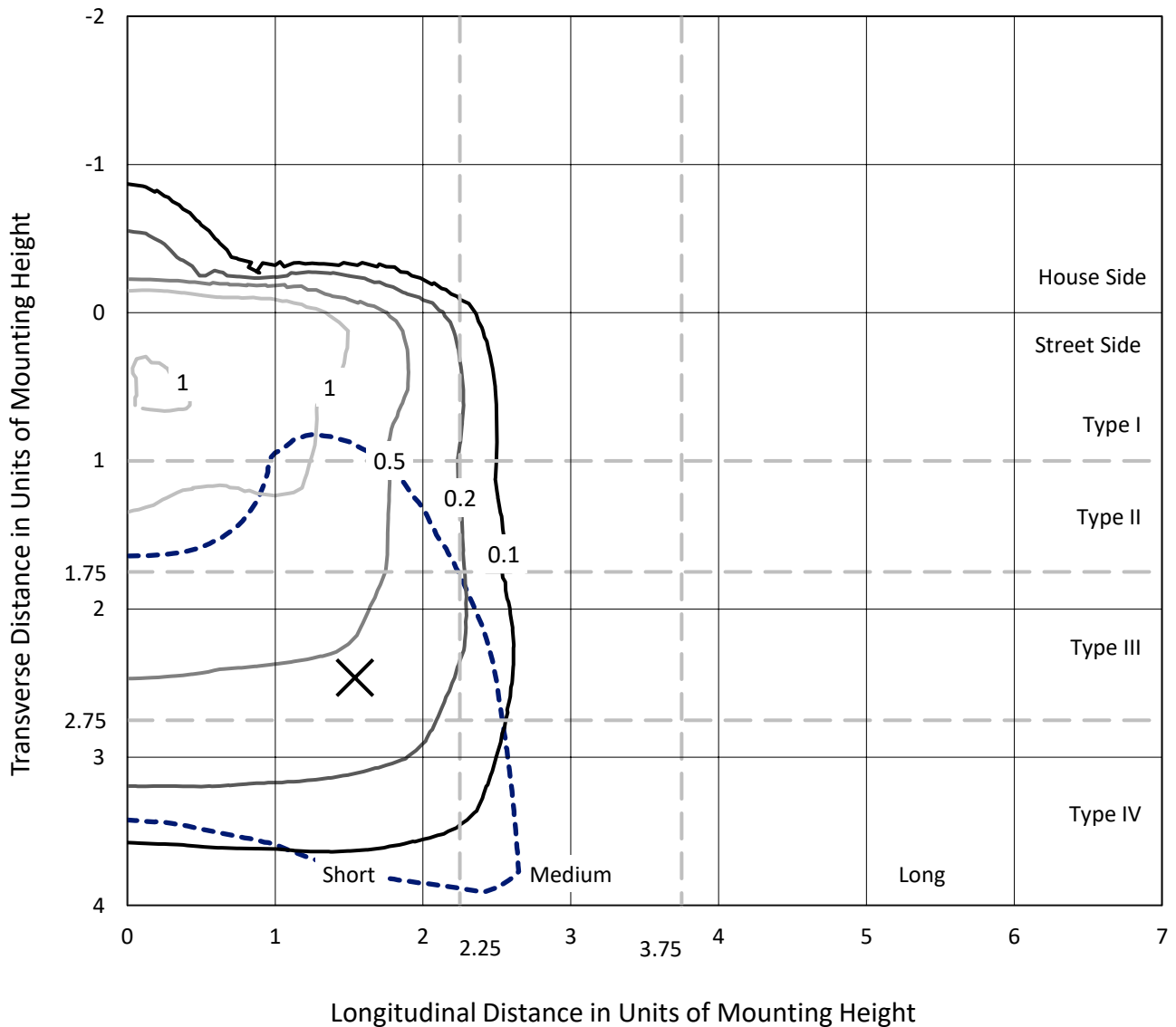
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

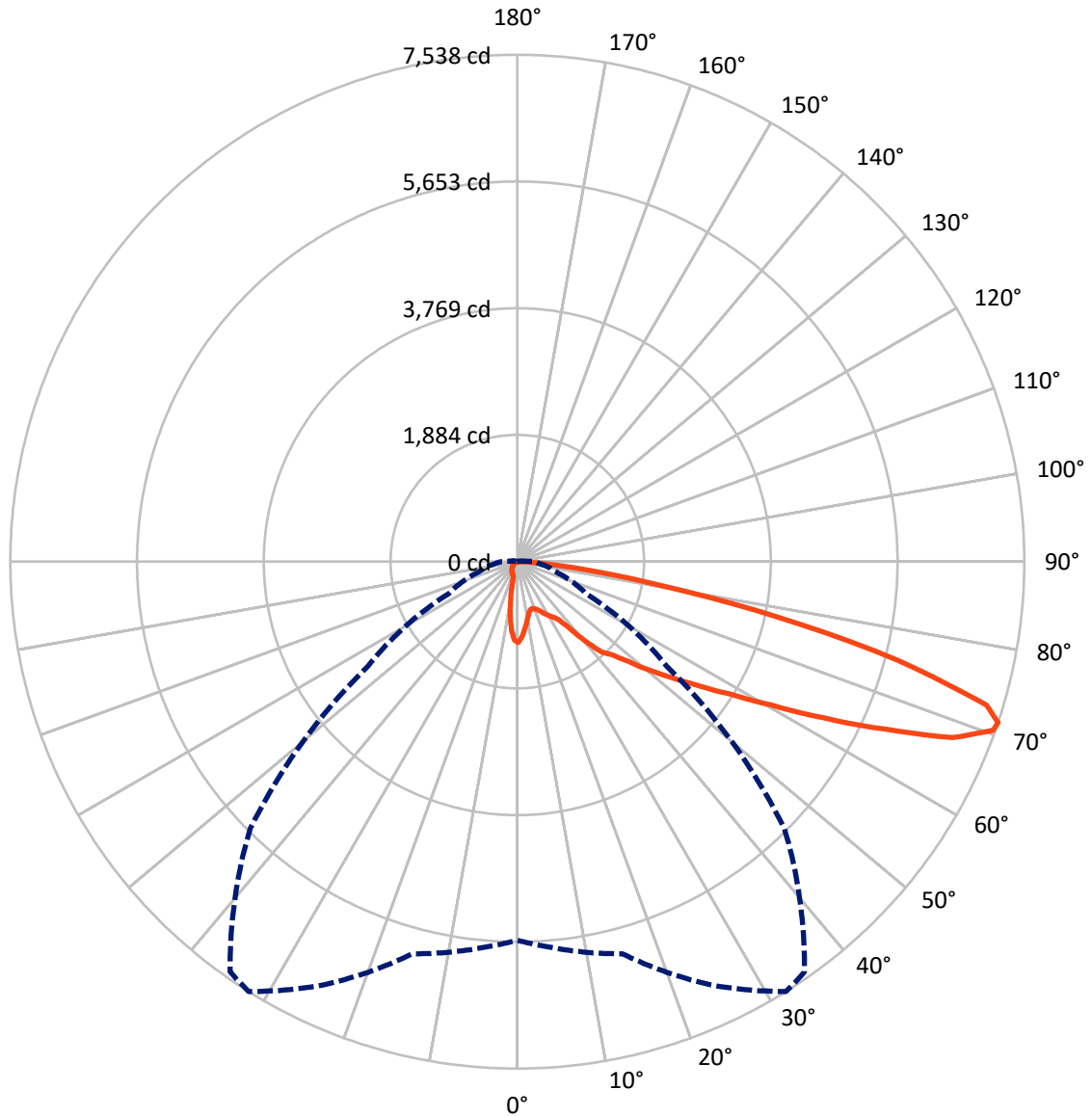
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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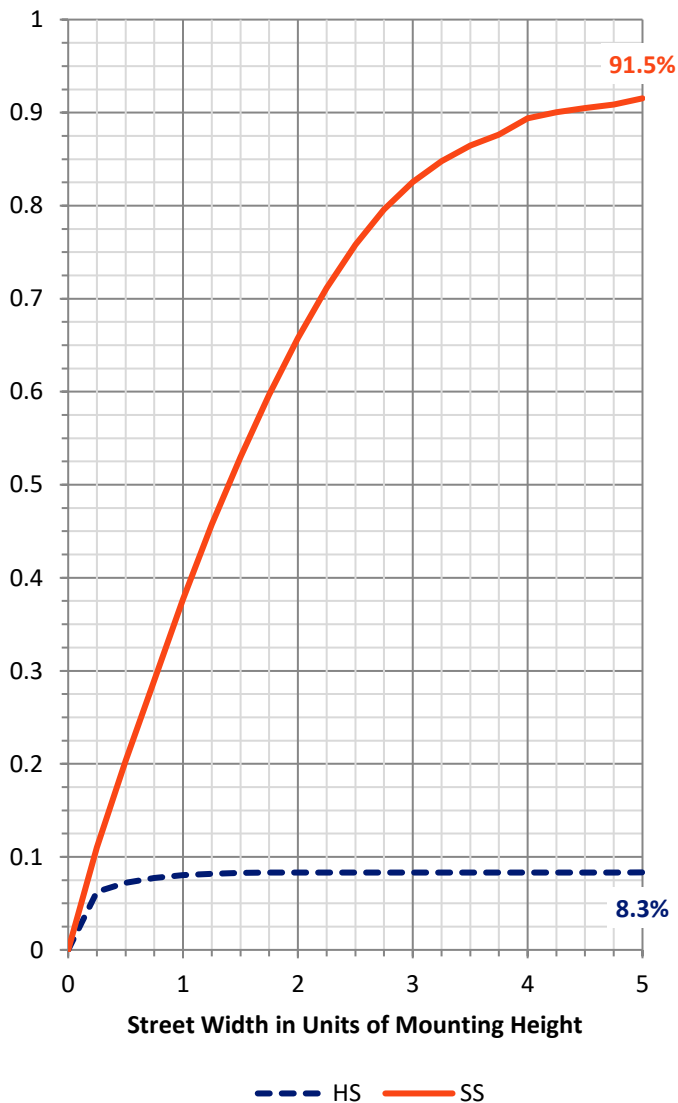
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	626.9	0.0	626.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6857.1	0.0	6857.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	1.3
10°-20°	212.4	2.8
20°-30°	330.4	4.4
30°-40°	550.5	7.4
40°-50°	1024.0	13.7
50°-60°	1644.1	22.0
60°-70°	2211.3	29.5
70°-80°	1312.0	17.5
80°-90°	101.4	1.4
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°	7484.0	100.0
0°-180°	7484.0	100.0

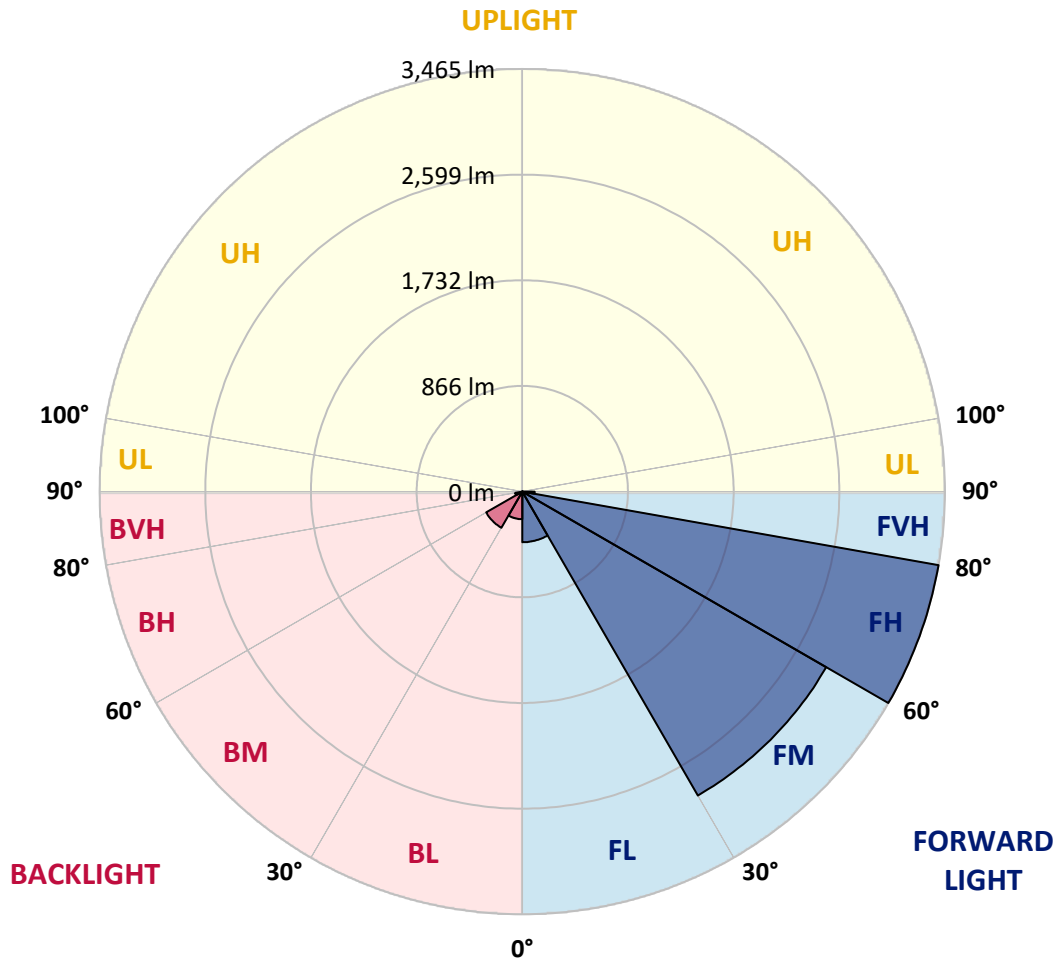


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.8	5.5			
FM (30°-60°)	2876.6	38.4			
FH (60°-80°)	3464.7	46.3			G2/5000
FVH (80°-90°)	101.0	1.3			G2/225
BL (0°-30°)	225.9	3.0	B1/500		
BM (30°-60°)	342.0	4.6	B1/1000		
BH (60°-80°)	58.6	0.8	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5
2.5°	1116.2	1127.7	1126.0	1130.0	1139.8	1143.8	1154.7	1166.8	1183.4	1194.9	1202.4
5°	999.6	1008.2	1009.4	1029.5	1039.2	1050.2	1082.3	1117.4	1156.4	1187.5	1208.1
7.5°	874.9	879.5	888.7	915.2	939.9	950.8	999.6	1060.5	1122.0	1180.0	1217.3
10°	772.1	777.3	793.9	822.1	845.1	859.4	927.2	1003.6	1089.8	1176.0	1230.5
12.5°	713.5	716.4	722.7	748.0	777.3	792.8	865.7	953.1	1063.9	1177.7	1252.9
15°	709.5	708.3	700.9	711.2	737.6	753.7	825.0	918.6	1041.0	1183.4	1279.4
17.5°	730.7	727.9	710.1	710.1	731.9	745.1	807.7	900.2	1029.5	1196.7	1316.7
20°	763.5	758.9	729.6	727.3	748.6	762.3	818.1	901.4	1031.8	1221.4	1366.7
22.5°	804.9	799.7	755.4	756.6	779.6	793.4	847.9	922.0	1046.1	1251.8	1420.1
25°	858.9	853.1	800.8	798.5	822.7	834.7	892.2	958.8	1066.2	1289.7	1490.2
27.5°	930.7	918.6	856.0	852.5	878.4	893.9	945.6	1008.2	1101.9	1342.0	1584.4
30°	989.8	976.6	916.9	907.7	935.3	947.3	1000.8	1074.9	1171.9	1433.3	1714.8
32.5°	1067.4	1047.9	977.8	953.6	982.9	998.5	1080.6	1198.9	1275.9	1529.9	1869.9
35°	1242.0	1230.0	1144.4	1059.9	1058.2	1077.7	1198.4	1324.2	1382.8	1680.4	2081.4
37.5°	1491.9	1483.3	1392.5	1279.4	1246.6	1237.4	1341.4	1462.1	1553.4	1887.2	2327.2
40°	1782.0	1761.9	1678.6	1582.7	1540.2	1513.2	1510.3	1667.2	1776.3	2168.1	2583.5
42.5°	1990.0	1953.2	1852.1	1845.2	1836.1	1807.9	1726.3	1967.0	2064.1	2470.3	2857.5
45°	2208.3	2152.6	2002.1	1976.2	1972.8	1971.1	2052.6	2322.1	2377.8	2797.7	3139.0
47.5°	2377.8	2333.6	2210.0	2198.6	2212.9	2252.0	2484.1	2698.9	2687.4	3089.6	3375.1
50°	2603.6	2570.2	2432.9	2454.8	2528.9	2592.6	2970.7	3109.7	2941.9	3319.4	3546.9
52.5°	2870.1	2808.7	2681.1	2740.3	2854.0	2960.3	3487.1	3469.3	3120.6	3492.3	3675.0
55°	3101.1	3057.4	3013.7	3075.2	3245.3	3378.0	3953.6	3738.7	3250.4	3631.3	3731.3
57.5°	3491.7	3481.4	3436.6	3499.2	3705.4	3843.3	4371.2	3947.9	3333.7	3703.7	3665.2
60°	4069.6	4053.0	3969.7	4049.5	4318.4	4535.0	4756.2	4135.7	3352.7	3675.5	3475.1
62.5°	4764.8	4707.9	4636.7	4754.4	5123.2	5218.6	5118.7	4247.2	3282.0	3451.5	3016.6
65°	5413.9	5355.3	5357.1	5605.2	6006.8	6071.7	5541.5	4230.5	3075.2	2890.2	2225.0
67.5°	5910.9	5901.1	5971.2	6455.5	6980.6	6935.7	5919.5	3981.2	2462.2	1873.4	1182.3
70°	5936.1	5955.1	6156.2	6973.7	7506.8	7435.5	5887.3	3236.1	1535.0	861.7	465.9
71°	5630.5	5758.1	6036.1	6957.6	7537.8	7445.3	5616.2	2710.4	1126.0	600.9	336.1
72.5°	4798.1	4865.3	5466.2	6548.0	7292.5	7094.9	4928.5	1899.8	721.0	367.7	193.0
75°	2642.6	2808.1	3660.6	5137.0	5832.7	5659.2	3211.9	902.5	359.6	201.1	79.9
77.5°	1258.1	1225.9	1786.1	3055.1	3954.7	3945.6	1618.3	401.0	209.7	136.2	40.2
80°	359.6	404.4	683.6	1452.3	2195.7	2219.8	621.6	193.6	145.3	106.3	20.7
82.5°	108.6	110.9	251.0	642.3	1092.1	1029.5	233.2	98.8	104.6	84.4	12.1
85°	19.0	23.6	74.1	226.3	416.5	316.0	58.6	47.1	68.9	55.7	6.9
87.5°	1.1	1.7	24.7	25.9	36.8	21.3	10.3	6.9	14.9	14.9	4.0
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°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5
2.5°	1207.6	1211.0	1208.7	1203.5	1194.9	1184.6	1170.8	1159.3	1149.5	1144.4	1150.7
5°	1215.0	1219.6	1208.1	1182.3	1143.2	1100.7	1052.5	1015.1	985.8	976.6	973.2
7.5°	1226.5	1229.4	1198.4	1140.9	1058.2	957.7	869.8	795.7	738.2	721.0	695.7
10°	1241.5	1239.7	1181.1	1074.3	928.9	777.9	641.7	540.6	464.2	436.6	434.3
12.5°	1264.4	1255.2	1159.3	983.5	775.0	577.4	409.0	320.0	271.7	255.6	252.2
15°	1293.2	1271.3	1124.8	877.2	593.4	372.8	252.2	225.2	218.9	217.7	216.6
17.5°	1327.1	1292.6	1079.5	746.8	417.1	241.9	210.8	210.3	210.8	209.7	209.1
20°	1373.0	1315.0	1025.5	592.3	275.8	203.9	201.1	201.1	201.6	201.1	201.1
22.5°	1421.8	1341.4	958.8	452.1	208.0	193.6	193.0	194.2	195.3	194.8	194.8
25°	1482.2	1375.9	870.9	309.6	186.1	185.0	185.6	187.9	190.2	190.7	190.2
27.5°	1569.5	1418.4	776.7	213.1	170.6	171.8	177.5	183.3	186.7	187.3	187.3
30°	1667.7	1465.5	653.8	172.9	158.0	158.0	164.9	175.8	183.3	184.4	185.0
32.5°	1794.1	1520.1	517.6	155.7	145.9	144.8	151.1	164.3	178.1	182.1	182.1
35°	1950.4	1584.4	384.9	144.8	137.3	134.4	137.9	148.8	166.6	178.1	179.2
37.5°	2133.6	1645.3	281.5	135.0	129.3	125.2	127.5	136.2	150.5	167.7	172.3
40°	2303.1	1699.3	210.3	127.0	121.2	118.3	120.1	124.1	136.2	152.2	155.1
42.5°	2488.1	1741.3	167.2	118.3	113.2	112.0	112.0	113.7	121.8	131.0	131.6
45°	2672.5	1756.2	140.2	108.0	104.6	105.7	105.1	104.0	107.4	106.3	106.3
47.5°	2804.1	1738.4	116.0	98.2	98.2	100.0	97.1	93.1	91.3	84.4	85.0
50°	2894.3	1673.5	95.4	86.7	91.3	93.6	87.9	81.6	75.3	67.8	66.1
52.5°	2931.6	1558.0	78.1	71.8	81.0	83.9	77.0	69.5	59.7	53.4	51.7
55°	2907.5	1415.5	64.9	58.6	68.4	71.8	64.9	56.3	45.4	38.5	37.3
57.5°	2801.2	1245.5	55.2	46.5	54.6	56.9	52.3	43.1	32.2	25.3	25.3
60°	2617.3	1069.7	44.8	36.8	40.8	44.2	39.6	31.0	21.8	15.5	14.4
62.5°	2244.5	868.6	36.2	28.7	28.7	31.6	27.6	22.4	13.8	8.0	7.5
65°	1620.6	595.7	28.7	21.3	20.7	20.7	17.2	14.9	8.0	3.4	2.3
67.5°	880.7	336.1	23.0	16.1	14.4	13.8	10.9	8.6	3.4	0.6	0.0
70°	346.4	129.3	17.8	10.9	9.2	8.6	5.7	4.0	2.3	0.0	0.0
71°	235.0	89.0	15.5	9.2	7.5	6.3	4.6	3.4	1.7	0.0	0.0
72.5°	134.4	55.2	12.1	6.9	5.7	4.6	3.4	2.3	1.7	0.0	0.0
75°	58.6	28.1	7.5	5.2	4.0	2.9	2.3	1.7	0.6	0.0	0.0
77.5°	29.9	15.5	5.2	4.0	2.3	1.7	1.1	0.6	0.0	0.0	0.0
80°	16.7	8.0	3.4	2.3	1.7	1.1	0.6	0.6	0.0	0.0	0.0
82.5°	9.2	4.6	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.1	0.0	0.0	0.0	0.0	0.6	0.6	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)