

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: P451128

Luminaire Tested: **GALN-SA2A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6326 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

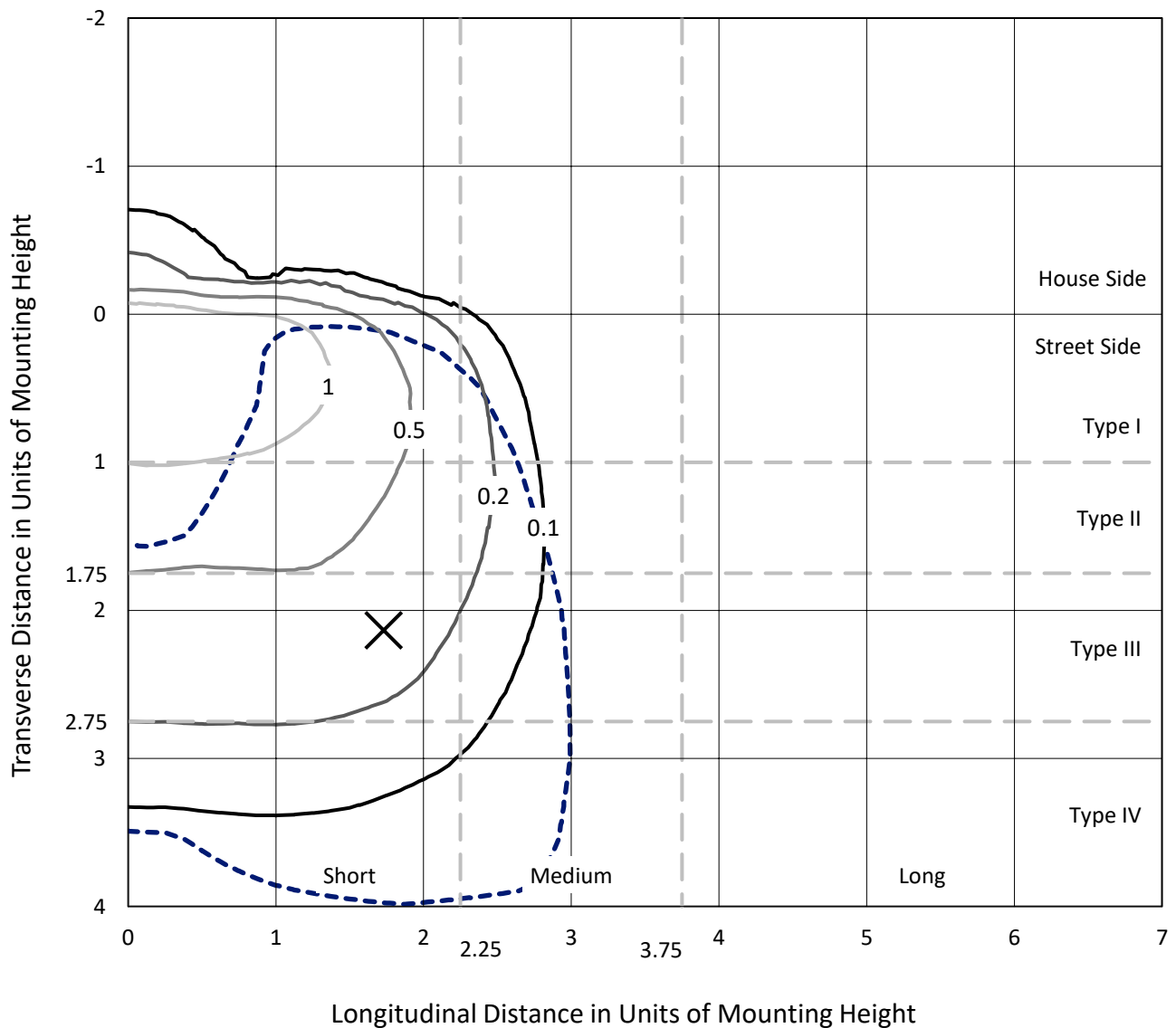
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451128
 CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

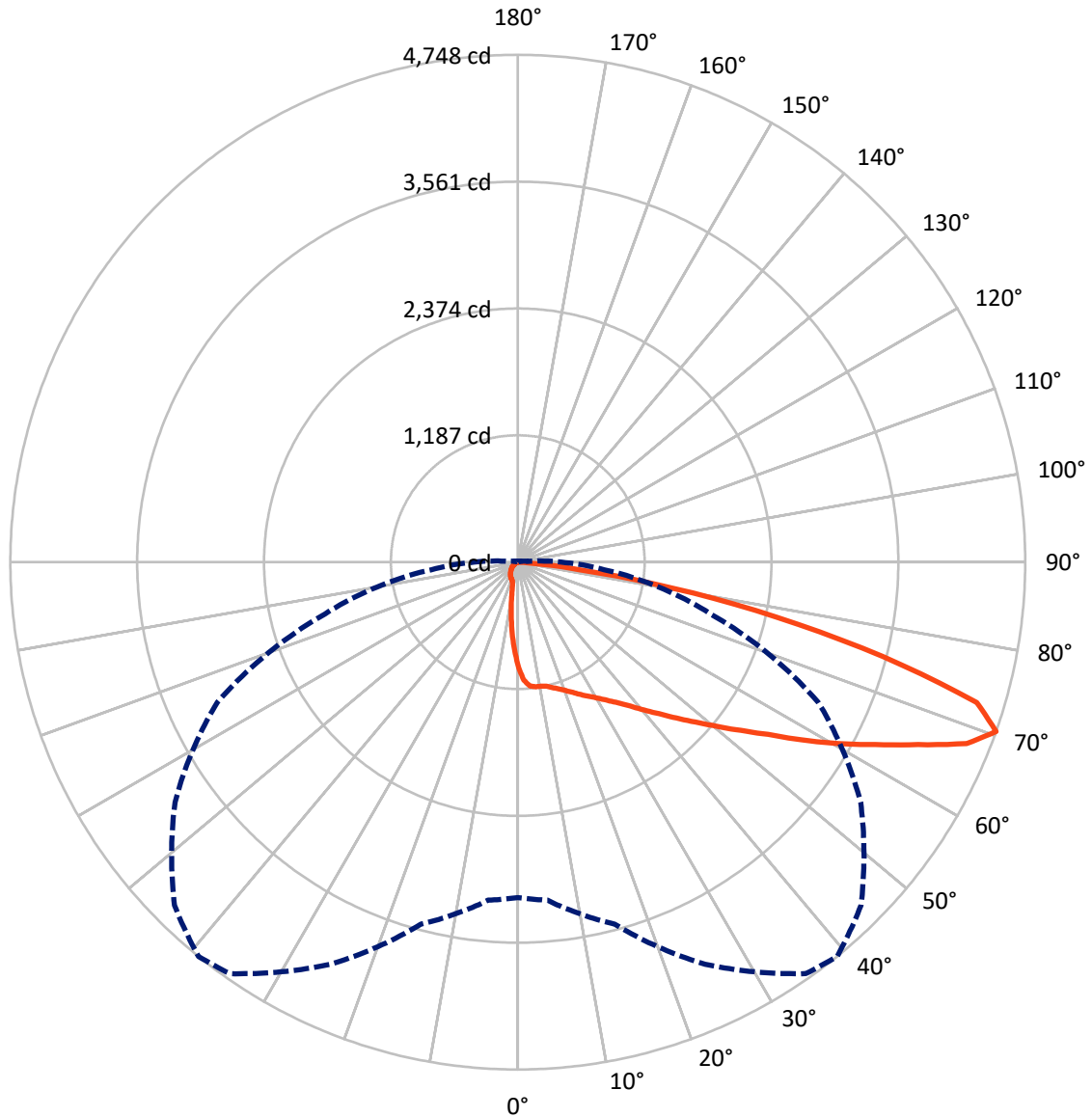
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451128
CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P451128
 CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

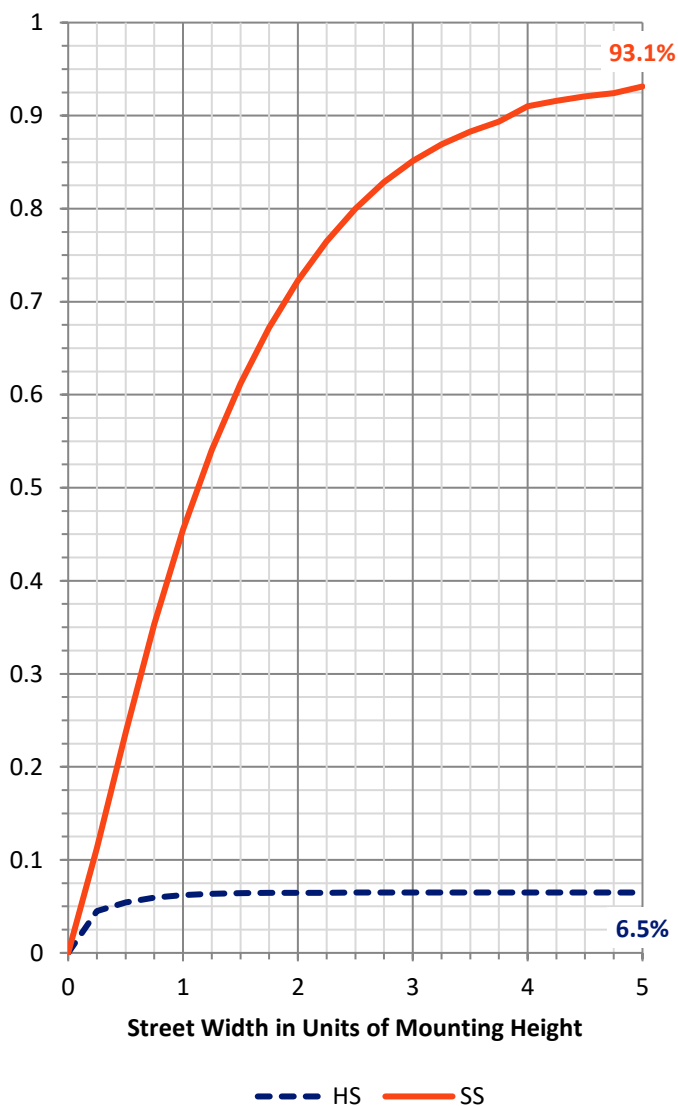
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.5	0.0	412.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5913.5	0.0	5913.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	6326.0	0.0	6326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.3
10°-20°	218.8	3.5
20°-30°	366.5	5.8
30°-40°	568.4	9.0
40°-50°	900.8	14.2
50°-60°	1320.5	20.9
60°-70°	1692.5	26.8
70°-80°	1063.5	16.8
80°-90°	110.8	1.8
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°	6326.0	100.0
0°-180°	6326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451128

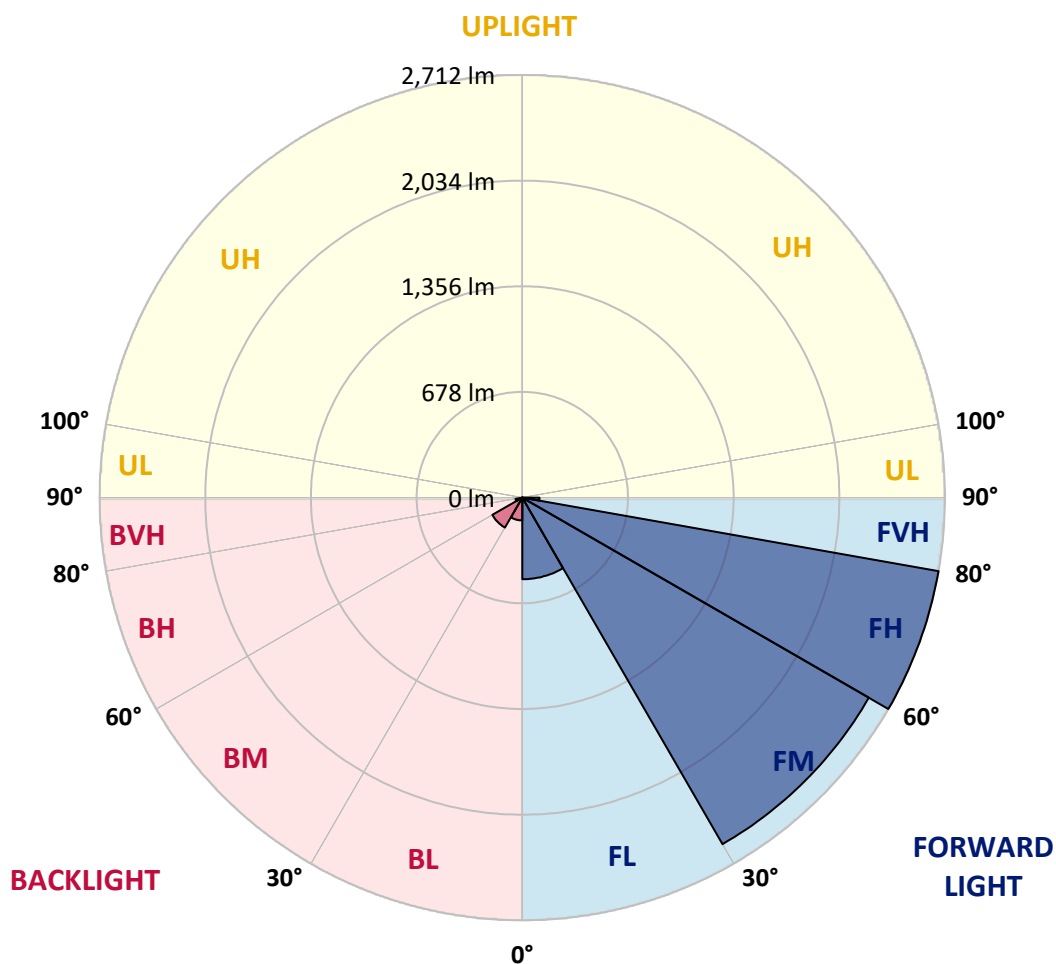
CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.4	8.3			
FM (30°-60°)	2567.7	40.6			
FH (60°-80°)	2712.4	42.9			G2/5000
FVH (80°-90°)	110.0	1.7			G2/225
BL (0°-30°)	146.1	2.3	B1/500		
BM (30°-60°)	222.0	3.5	B1/1000		
BH (60°-80°)	43.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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





REPORT NUMBER: P451128

CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	1140.5	1136.7	1131.6	1125.7	1108.7	1105.7	1095.5	1073.8	1047.9	1026.6	997.3
5°	1194.5	1196.6	1192.8	1182.2	1169.9	1162.6	1149.9	1116.3	1082.7	1039.8	991.7
7.5°	1206.8	1211.1	1206.4	1196.2	1184.3	1176.7	1166.5	1137.6	1098.4	1049.6	983.7
10°	1205.6	1210.7	1207.7	1198.3	1188.6	1181.3	1170.3	1147.3	1115.9	1064.4	986.2
12.5°	1203.4	1210.2	1209.8	1205.1	1197.1	1191.5	1184.7	1164.3	1135.0	1086.1	1000.3
15°	1197.5	1206.0	1213.6	1217.5	1217.9	1217.9	1209.4	1187.7	1159.7	1114.6	1018.5
17.5°	1200.0	1209.8	1229.0	1240.0	1247.7	1246.8	1237.9	1214.5	1183.5	1143.9	1037.7
20°	1215.8	1229.0	1255.7	1277.8	1285.5	1282.9	1271.0	1243.8	1208.5	1169.0	1056.4
22.5°	1254.5	1266.4	1299.9	1325.9	1331.4	1324.6	1307.6	1270.6	1238.7	1196.2	1078.9
25°	1312.3	1326.3	1357.3	1376.9	1376.9	1373.1	1349.3	1305.9	1272.7	1234.1	1108.2
27.5°	1382.4	1394.3	1424.9	1442.4	1432.1	1421.1	1397.3	1345.0	1313.1	1281.7	1143.5
30°	1453.4	1461.1	1493.4	1501.0	1490.4	1476.4	1450.9	1398.6	1370.5	1346.3	1194.5
32.5°	1520.6	1537.1	1563.9	1562.2	1547.8	1541.0	1517.6	1461.9	1446.2	1443.6	1265.9
35°	1587.7	1600.5	1624.3	1630.2	1617.5	1616.2	1599.2	1558.0	1558.4	1575.0	1377.3
37.5°	1645.5	1657.0	1685.1	1698.3	1700.8	1707.2	1700.4	1673.2	1711.9	1757.3	1524.8
40°	1694.0	1710.2	1745.9	1768.8	1795.2	1818.6	1819.8	1825.8	1903.6	1981.8	1717.4
42.5°	1731.8	1754.4	1806.2	1848.7	1909.1	1938.9	1962.7	1995.4	2126.3	2243.2	1944.4
45°	1781.2	1807.1	1871.7	1938.4	2032.8	2081.7	2114.9	2202.4	2388.2	2547.6	2177.3
47.5°	1862.8	1876.4	1942.3	2039.6	2163.7	2233.5	2298.1	2430.7	2669.2	2812.0	2371.2
50°	1967.8	1976.7	2026.4	2161.6	2322.3	2414.1	2531.9	2687.9	2960.8	3031.4	2480.9
52.5°	2083.8	2086.8	2124.2	2295.9	2500.0	2615.6	2747.4	2940.0	3198.4	3187.8	2553.6
55°	2218.6	2214.3	2246.2	2441.8	2710.4	2842.6	2996.1	3198.0	3404.6	3298.7	2595.2
57.5°	2372.9	2361.4	2392.4	2635.2	2979.9	3138.1	3294.1	3420.7	3564.4	3391.8	2615.2
60°	2534.4	2511.5	2548.5	2852.4	3297.5	3447.5	3577.2	3611.2	3732.8	3465.8	2580.8
62.5°	2663.2	2663.7	2732.5	3083.6	3623.9	3755.3	3824.2	3854.8	3877.7	3449.7	2399.7
65°	2864.3	2871.1	2981.2	3404.6	4001.9	4115.8	4163.0	4063.5	3884.1	3249.0	2127.6
67.5°	3071.7	3093.4	3294.9	3846.7	4438.4	4530.2	4469.5	4103.9	3710.7	2791.2	1613.2
70°	3139.3	3175.0	3507.0	4151.1	4700.3	4747.9	4542.2	3915.6	3101.9	1866.2	811.9
72.5°	2876.6	2934.4	3385.0	4040.1	4533.2	4492.0	4063.9	3283.9	1972.0	708.6	247.8
75°	2028.6	2054.1	2813.3	3351.5	3646.0	3529.1	3091.3	2117.0	811.1	198.9	85.0
77.5°	1047.4	1035.1	1673.2	2223.7	2600.3	2479.2	2024.3	1095.9	307.3	82.9	52.7
80°	541.6	550.5	723.9	1165.2	1587.3	1460.6	1079.3	508.0	163.7	45.9	40.4
82.5°	303.5	284.8	416.2	508.8	742.2	582.0	414.0	359.6	71.4	27.6	38.3
85°	55.3	57.8	228.3	275.0	257.6	163.7	133.5	240.2	20.8	15.3	26.8
87.5°	0.9	0.9	44.2	79.1	50.2	23.0	42.1	34.4	4.3	6.0	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



REPORT NUMBER: P451128
 CATALOG NUMBER: GALN-SA2A-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	982.4	966.2	936.1	906.3	868.5	837.4	816.6	794.9	772.8	774.5	779.6
5°	965.4	937.3	877.8	814.9	754.5	700.1	646.6	598.5	579.0	561.1	562.0
7.5°	948.4	908.9	821.7	723.1	631.7	539.0	471.9	416.6	387.3	365.2	358.8
10°	940.7	888.5	770.3	634.7	505.0	403.8	317.5	272.5	237.6	226.6	229.6
12.5°	944.1	878.2	723.9	554.8	400.4	281.4	221.0	198.1	190.4	189.2	188.3
15°	950.5	871.0	678.5	466.3	294.2	209.1	185.8	181.5	180.7	179.8	180.2
17.5°	959.0	864.6	630.0	383.4	225.7	182.8	176.0	173.9	173.4	173.4	173.4
20°	967.5	857.4	576.0	309.5	188.3	172.6	168.3	167.1	166.6	166.6	166.2
22.5°	977.3	851.0	521.2	243.2	173.4	165.4	161.5	160.7	160.3	159.8	159.8
25°	991.3	843.0	462.9	198.9	164.1	158.6	154.7	153.9	153.5	151.8	152.2
27.5°	1010.0	837.0	403.0	171.7	155.6	150.1	147.5	146.2	145.4	144.1	144.5
30°	1035.5	831.9	339.2	156.9	145.8	141.1	138.6	137.7	136.9	135.6	135.6
32.5°	1079.7	834.0	272.1	145.0	136.9	131.4	128.8	128.0	127.1	125.8	125.8
35°	1146.1	846.4	217.6	134.8	126.3	120.7	118.2	118.2	116.9	115.2	114.8
37.5°	1254.5	877.8	174.7	125.0	116.1	111.0	108.0	107.1	105.8	103.3	102.9
40°	1382.4	926.7	147.1	115.2	106.7	101.6	99.0	96.5	93.1	90.5	90.1
42.5°	1543.1	976.9	127.5	105.4	97.8	93.1	90.1	85.9	80.8	77.4	76.9
45°	1710.6	1022.8	114.4	96.5	89.3	85.4	82.0	75.2	68.9	64.6	64.2
47.5°	1835.6	1031.3	103.7	88.0	82.0	78.2	73.5	65.0	56.5	52.7	51.4
50°	1894.7	990.0	92.7	79.5	74.8	70.6	64.6	54.8	45.5	40.8	40.0
52.5°	1915.5	918.6	83.7	71.8	67.6	62.5	55.3	44.2	35.7	31.0	30.6
55°	1907.0	828.5	75.7	64.6	59.1	53.1	45.9	35.3	26.4	22.5	21.7
57.5°	1862.3	713.7	67.6	57.4	50.6	44.6	36.6	26.4	17.9	14.5	14.0
60°	1742.0	557.3	59.5	49.3	42.9	36.6	28.9	18.7	11.1	8.1	8.1
62.5°	1538.8	413.6	51.9	41.2	36.1	29.3	20.4	11.9	6.0	4.3	3.8
65°	1285.9	305.2	43.4	34.9	30.2	23.0	14.5	7.2	3.0	1.3	0.9
67.5°	897.4	188.3	36.1	28.5	24.7	16.6	8.9	3.0	1.3	0.0	0.0
70°	407.7	89.7	27.6	21.7	18.7	11.9	4.7	1.7	0.9	0.0	0.0
72.5°	126.7	47.2	19.6	15.7	12.8	7.7	2.6	1.3	0.9	0.0	0.0
75°	58.7	30.2	12.3	8.5	7.2	3.8	1.7	0.9	0.4	0.0	0.0
77.5°	43.8	23.4	7.2	4.7	3.8	2.6	1.3	0.9	0.4	0.0	0.0
80°	38.3	11.9	4.3	3.0	2.1	1.7	0.9	0.4	0.0	0.0	0.0
82.5°	34.4	6.0	2.6	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0
85°	18.7	3.4	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.3	0.9	0.9	0.4	0.4	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)