

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: P450693

Luminaire Tested: **GALN-SA1C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450693
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-SA1C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 5329 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

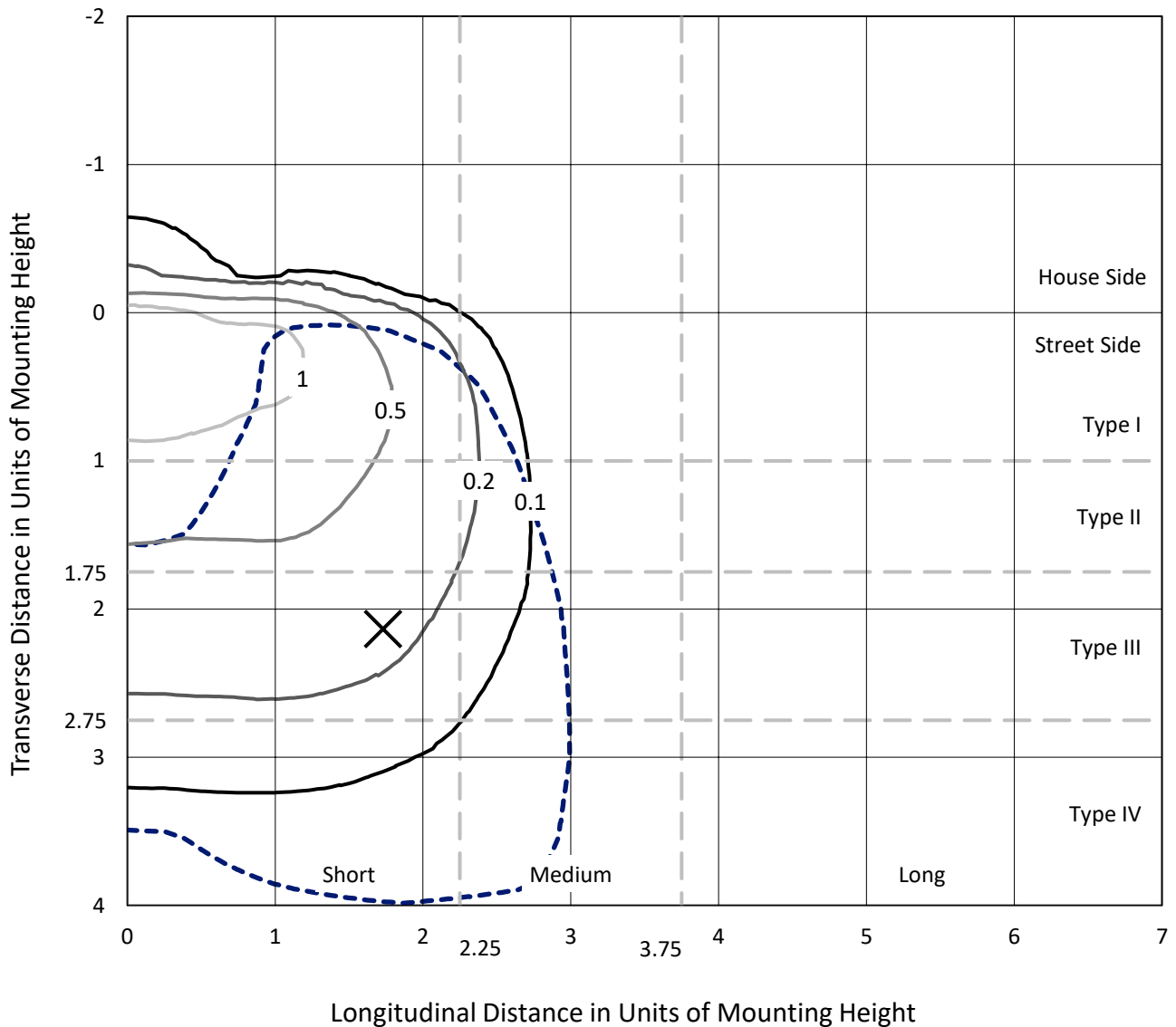
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450693
 CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

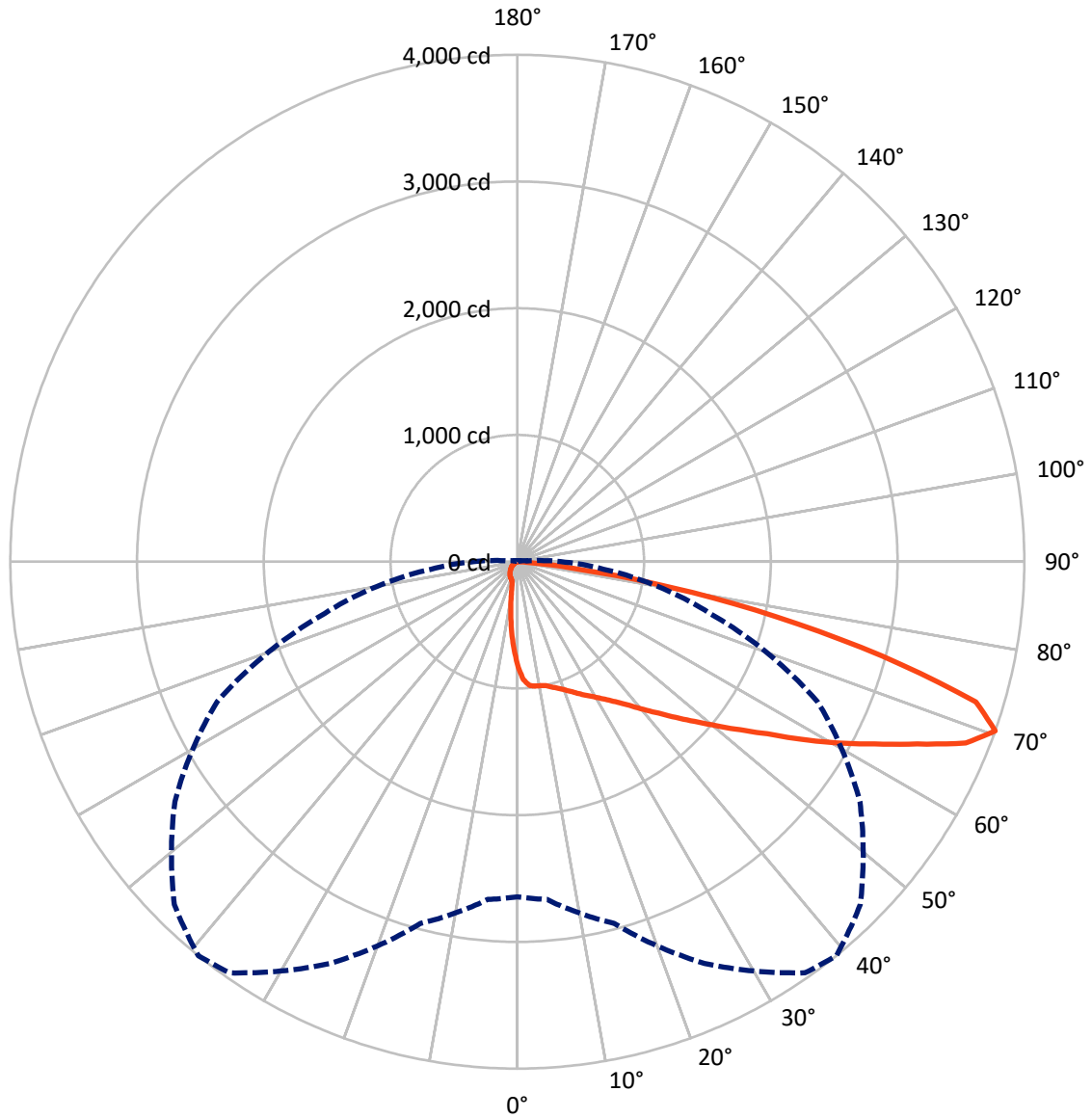
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P450693
CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P450693
 CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

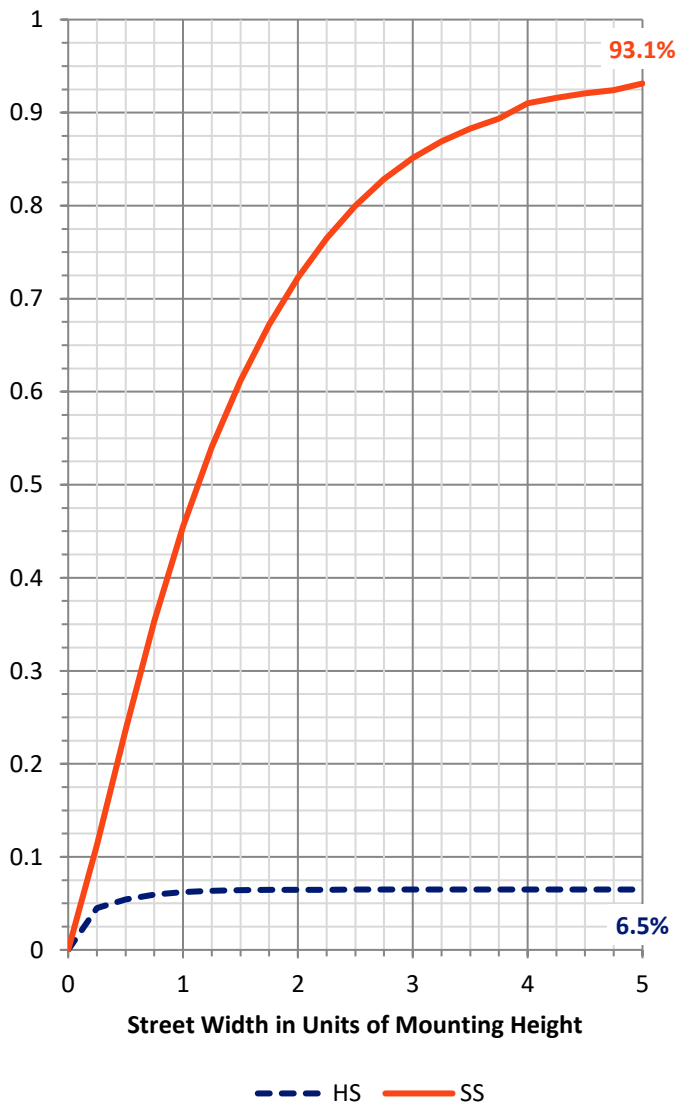
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.5	0.0	347.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4981.5	0.0	4981.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	5329.0	0.0	5329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.3
10°-20°	184.3	3.5
20°-30°	308.8	5.8
30°-40°	478.9	9.0
40°-50°	758.8	14.2
50°-60°	1112.3	20.9
60°-70°	1425.8	26.8
70°-80°	895.9	16.8
80°-90°	93.3	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°	5329.0	100.0
0°-180°	5329.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450693

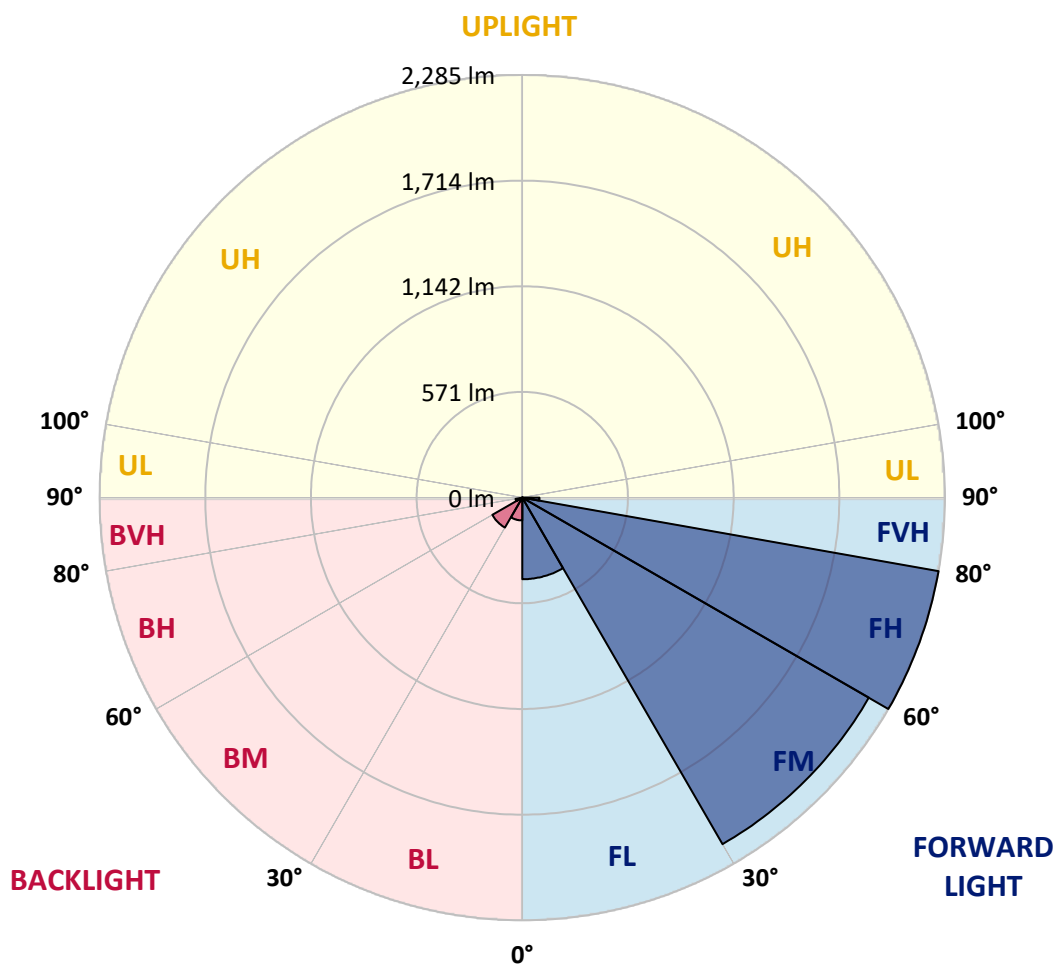
CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.9	8.3			
FM (30°-60°)	2163.0	40.6			
FH (60°-80°)	2284.9	42.9			G2/5000
FVH (80°-90°)	92.6	1.7			G1/100
BL (0°-30°)	123.0	2.3	B1/500		
BM (30°-60°)	187.0	3.5	B0/220		
BH (60°-80°)	36.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	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: P450693

CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	960.8	957.6	953.3	948.2	933.9	931.4	922.8	904.6	882.7	864.8	840.1
5°	1006.3	1008.0	1004.8	995.9	985.5	979.4	968.7	940.4	912.1	875.9	835.4
7.5°	1016.6	1020.2	1016.3	1007.7	997.7	991.2	982.6	958.3	925.3	884.1	828.6
10°	1015.6	1019.9	1017.4	1009.5	1001.2	995.2	985.8	966.5	940.0	896.7	830.8
12.5°	1013.8	1019.5	1019.2	1015.2	1008.4	1003.8	998.0	980.8	956.1	914.9	842.6
15°	1008.8	1015.9	1022.4	1025.6	1026.0	1026.0	1018.8	1000.5	976.9	938.9	858.0
17.5°	1010.9	1019.2	1035.3	1044.6	1051.0	1050.3	1042.8	1023.1	996.9	963.6	874.1
20°	1024.2	1035.3	1057.8	1076.4	1082.9	1080.7	1070.7	1047.8	1018.1	984.8	889.9
22.5°	1056.8	1066.8	1095.1	1116.9	1121.6	1115.8	1101.5	1070.4	1043.5	1007.7	908.9
25°	1105.5	1117.3	1143.4	1159.9	1159.9	1156.7	1136.6	1100.1	1072.1	1039.6	933.6
27.5°	1164.5	1174.6	1200.3	1215.0	1206.4	1197.1	1177.1	1133.0	1106.2	1079.7	963.3
30°	1224.3	1230.8	1258.0	1264.4	1255.5	1243.7	1222.2	1178.1	1154.5	1134.1	1006.3
32.5°	1280.9	1294.9	1317.4	1316.0	1303.8	1298.1	1278.4	1231.5	1218.3	1216.1	1066.4
35°	1337.5	1348.2	1368.3	1373.3	1362.6	1361.5	1347.2	1312.4	1312.8	1326.8	1160.2
37.5°	1386.2	1395.9	1419.5	1430.6	1432.8	1438.1	1432.4	1409.5	1442.1	1480.4	1284.5
40°	1427.0	1440.6	1470.7	1490.1	1512.3	1531.9	1533.0	1538.0	1603.6	1669.5	1446.7
42.5°	1458.9	1477.9	1521.6	1557.4	1608.2	1633.3	1653.3	1680.9	1791.2	1889.7	1637.9
45°	1500.4	1522.3	1576.7	1632.9	1712.4	1753.6	1781.5	1855.3	2011.8	2146.1	1834.2
47.5°	1569.2	1580.7	1636.2	1718.2	1822.7	1881.5	1935.9	2047.6	2248.5	2368.8	1997.5
50°	1657.6	1665.2	1707.1	1820.9	1956.3	2033.6	2132.8	2264.3	2494.2	2553.6	2089.9
52.5°	1755.4	1757.9	1789.4	1934.1	2106.0	2203.4	2314.4	2476.6	2694.3	2685.4	2151.1
55°	1868.9	1865.3	1892.2	2056.9	2283.2	2394.6	2523.9	2694.0	2868.0	2778.9	2186.2
57.5°	1998.9	1989.2	2015.4	2219.9	2510.3	2643.5	2774.9	2881.6	3002.7	2857.3	2203.0
60°	2135.0	2115.7	2146.8	2402.8	2777.8	2904.2	3013.4	3042.1	3144.5	2919.6	2174.0
62.5°	2243.5	2243.9	2301.9	2597.7	3052.8	3163.5	3221.5	3247.2	3266.6	2906.0	2021.5
65°	2412.9	2418.6	2511.4	2868.0	3371.1	3467.1	3506.9	3423.1	3272.0	2737.0	1792.3
67.5°	2587.6	2605.9	2775.6	3240.4	3738.9	3816.3	3765.1	3457.1	3125.8	2351.3	1359.0
70°	2644.6	2674.6	2954.3	3496.8	3959.5	3999.6	3826.3	3298.5	2613.1	1572.1	684.0
72.5°	2423.3	2472.0	2851.5	3403.4	3818.8	3784.0	3423.4	2766.3	1661.2	597.0	208.8
75°	1708.9	1730.3	2369.9	2823.3	3071.4	2972.9	2604.1	1783.3	683.3	167.6	71.6
77.5°	882.4	872.0	1409.5	1873.2	2190.5	2088.4	1705.3	923.2	258.9	69.8	44.4
80°	456.2	463.7	609.8	981.6	1337.1	1230.4	909.2	427.9	137.9	38.7	34.0
82.5°	255.7	239.9	350.6	428.6	625.2	490.2	348.8	303.0	60.2	23.3	32.2
85°	46.6	48.7	192.3	231.7	217.0	137.9	112.4	202.3	17.5	12.9	22.6
87.5°	0.7	0.7	37.2	66.6	42.3	19.3	35.5	29.0	3.6	5.0	3.9
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: P450693
 CATALOG NUMBER: GALN-SA1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	827.6	814.0	788.5	763.5	731.6	705.5	687.9	669.6	651.0	652.5	656.8
5°	813.2	789.6	739.5	686.5	635.6	589.8	544.7	504.2	487.7	472.7	473.4
7.5°	798.9	765.6	692.2	609.1	532.1	454.1	397.5	350.9	326.2	307.6	302.2
10°	792.5	748.4	648.9	534.6	425.4	340.2	267.5	229.5	200.2	190.9	193.4
12.5°	795.3	739.8	609.8	467.3	337.3	237.1	186.2	166.9	160.4	159.4	158.6
15°	800.7	733.7	571.5	392.8	247.8	176.2	156.5	152.9	152.2	151.5	151.8
17.5°	807.9	728.4	530.7	323.0	190.2	154.0	148.3	146.5	146.1	146.1	146.1
20°	815.0	722.3	485.2	260.7	158.6	145.4	141.8	140.7	140.4	140.4	140.0
22.5°	823.3	716.9	439.0	204.8	146.1	139.3	136.1	135.4	135.0	134.6	134.6
25°	835.1	710.1	390.0	167.6	138.2	133.6	130.3	129.6	129.3	127.8	128.2
27.5°	850.8	705.1	339.5	144.7	131.1	126.4	124.3	123.2	122.5	121.4	121.8
30°	872.3	700.8	285.8	132.1	122.8	118.9	116.7	116.0	115.3	114.2	114.2
32.5°	909.6	702.6	229.2	122.1	115.3	110.7	108.5	107.8	107.1	106.0	106.0
35°	965.4	713.0	183.3	113.5	106.4	101.7	99.6	99.6	98.5	97.0	96.7
37.5°	1056.8	739.5	147.2	105.3	97.8	93.5	91.0	90.2	89.2	87.0	86.7
40°	1164.5	780.7	123.9	97.0	89.9	85.6	83.4	81.3	78.4	76.3	75.9
42.5°	1299.9	822.9	107.4	88.8	82.4	78.4	75.9	72.3	68.0	65.2	64.8
45°	1441.0	861.6	96.3	81.3	75.2	72.0	69.1	63.4	58.0	54.4	54.1
47.5°	1546.3	868.7	87.4	74.1	69.1	65.9	62.0	54.8	47.6	44.4	43.3
50°	1596.0	834.0	78.1	67.0	63.0	59.4	54.4	46.2	38.3	34.4	33.7
52.5°	1613.6	773.9	70.5	60.5	56.9	52.6	46.6	37.2	30.1	26.1	25.8
55°	1606.4	697.9	63.7	54.4	49.8	44.8	38.7	29.7	22.2	19.0	18.3
57.5°	1568.8	601.2	56.9	48.3	42.6	37.6	30.8	22.2	15.0	12.2	11.8
60°	1467.5	469.5	50.1	41.5	36.2	30.8	24.4	15.8	9.3	6.8	6.8
62.5°	1296.3	348.4	43.7	34.7	30.4	24.7	17.2	10.0	5.0	3.6	3.2
65°	1083.3	257.1	36.5	29.4	25.4	19.3	12.2	6.1	2.5	1.1	0.7
67.5°	755.9	158.6	30.4	24.0	20.8	14.0	7.5	2.5	1.1	0.0	0.0
70°	343.4	75.6	23.3	18.3	15.8	10.0	3.9	1.4	0.7	0.0	0.0
72.5°	106.7	39.7	16.5	13.2	10.7	6.4	2.1	1.1	0.7	0.0	0.0
75°	49.4	25.4	10.4	7.2	6.1	3.2	1.4	0.7	0.4	0.0	0.0
77.5°	36.9	19.7	6.1	3.9	3.2	2.1	1.1	0.7	0.4	0.0	0.0
80°	32.2	10.0	3.6	2.5	1.8	1.4	0.7	0.4	0.0	0.0	0.0
82.5°	29.0	5.0	2.1	1.4	1.1	0.7	0.4	0.4	0.0	0.0	0.0
85°	15.8	2.9	1.4	1.1	0.7	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	2.9	1.4	1.1	0.7	0.7	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)