

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: P450708

Luminaire Tested: **GALN-SA1C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450708
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-SA1C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4665 lumens
Efficiency: N/A
Efficacy: 81.8 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

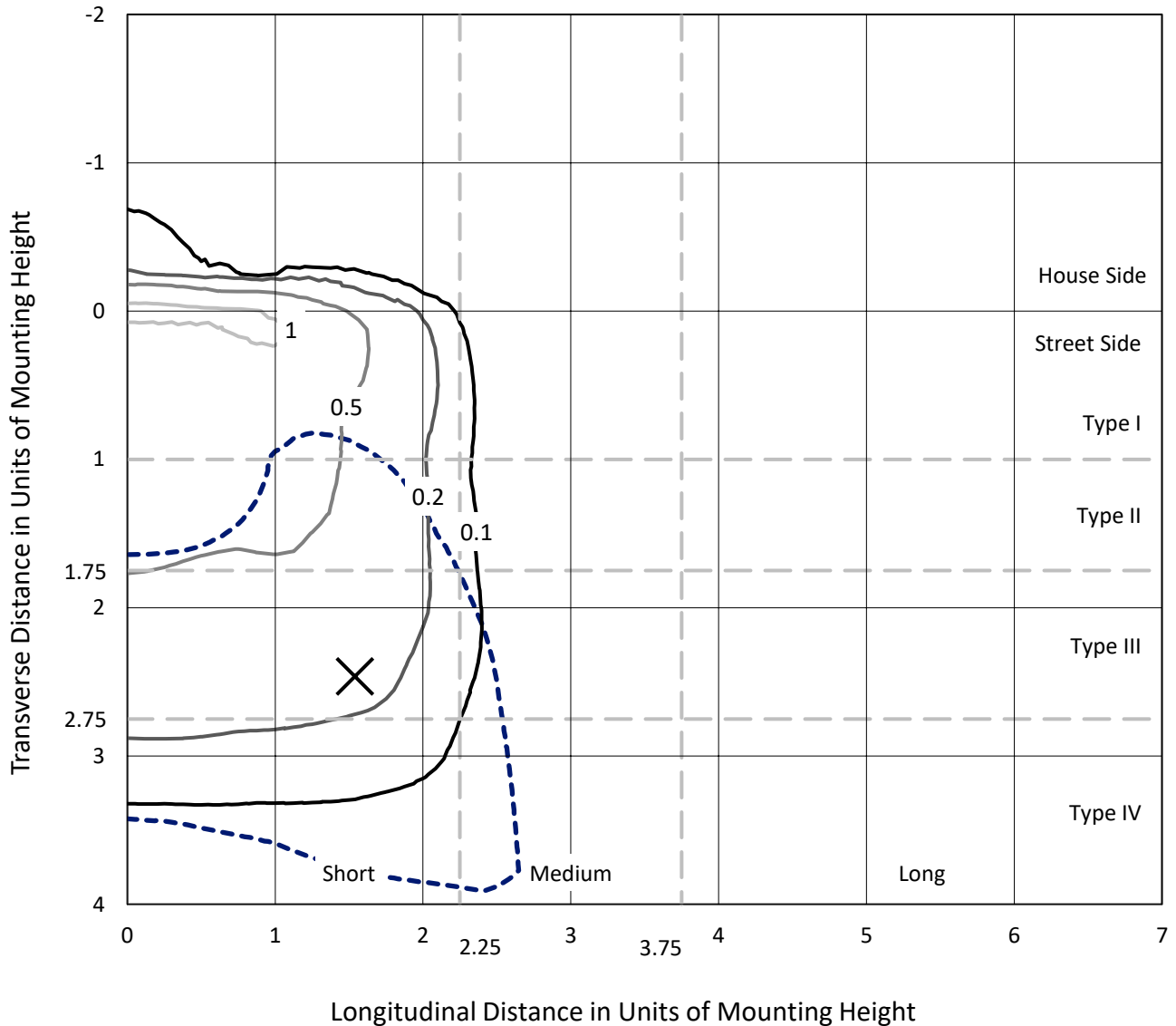
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450708
 CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

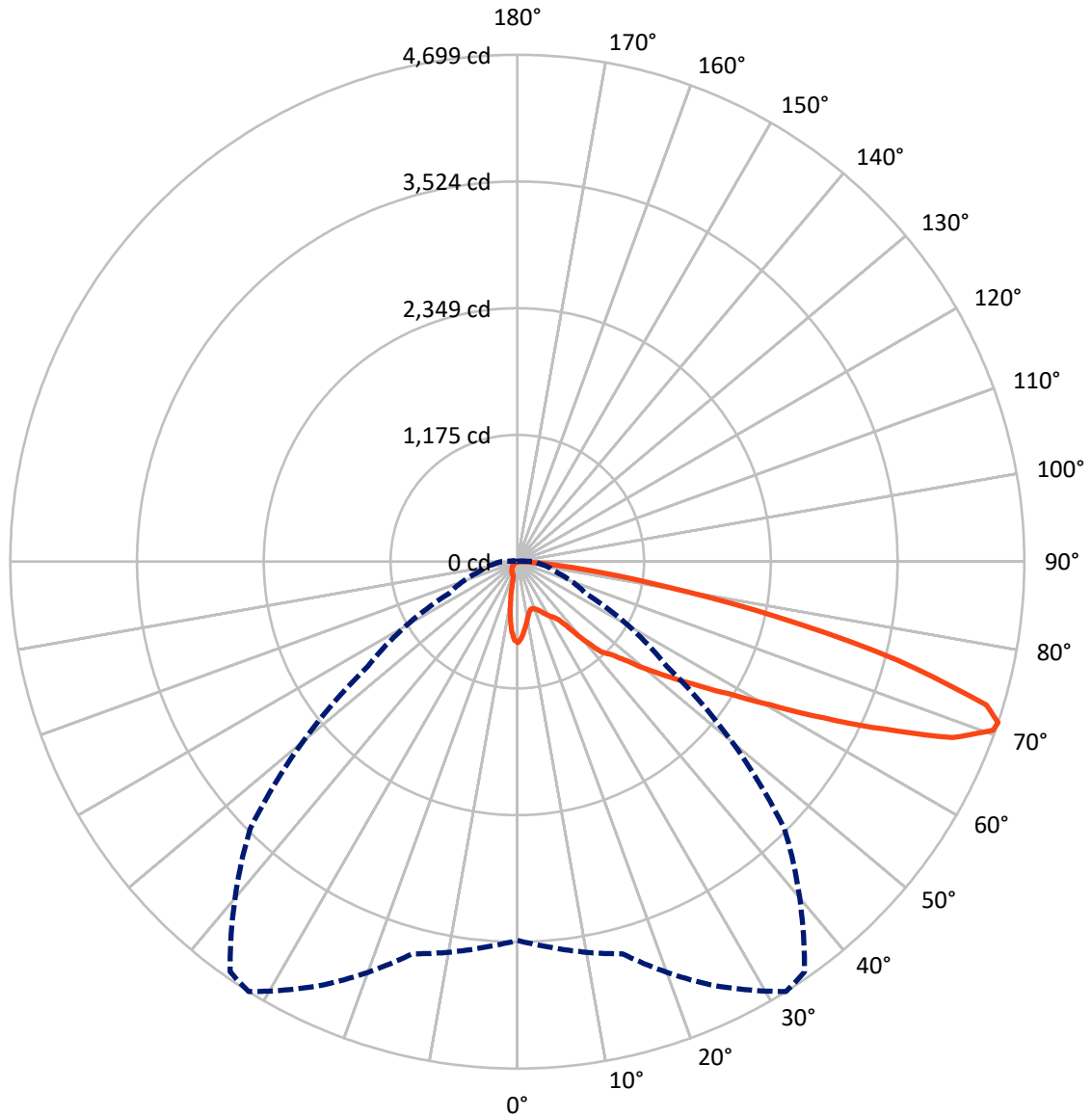
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P450708
CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P450708
 CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

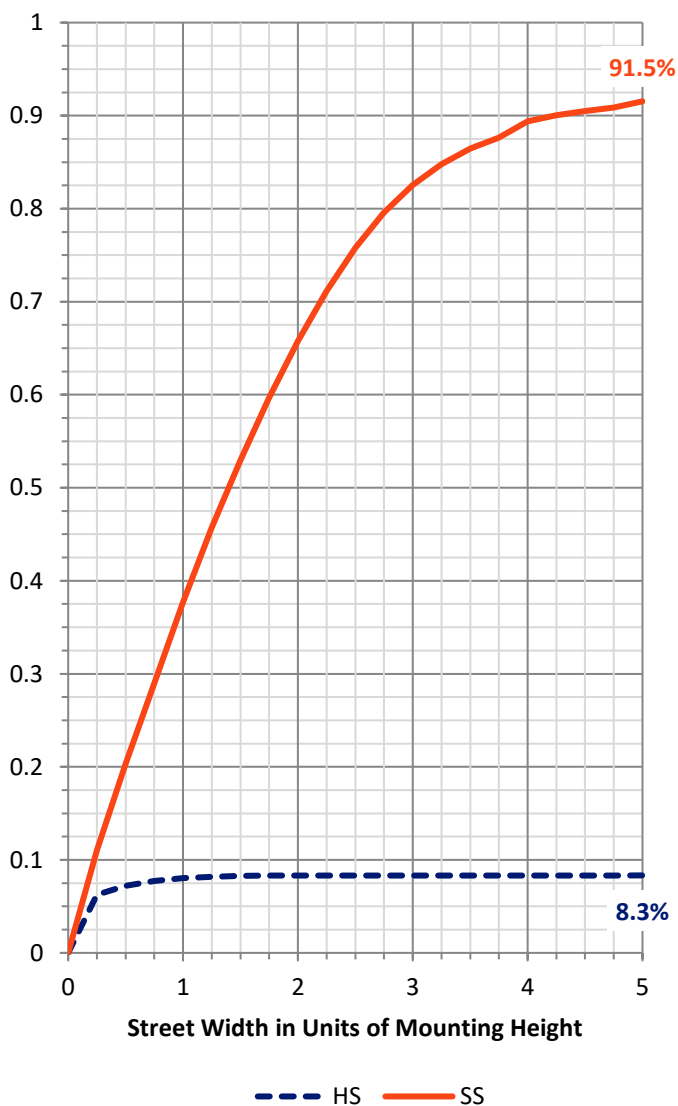
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	390.7	0.0	390.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4274.3	0.0	4274.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	4665.0	0.0	4665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.3
10°-20°	132.4	2.8
20°-30°	206.0	4.4
30°-40°	343.1	7.4
40°-50°	638.3	13.7
50°-60°	1024.8	22.0
60°-70°	1378.4	29.5
70°-80°	817.8	17.5
80°-90°	63.2	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°	4665.0	100.0
0°-180°	4665.0	100.0

Coefficient of Utilization

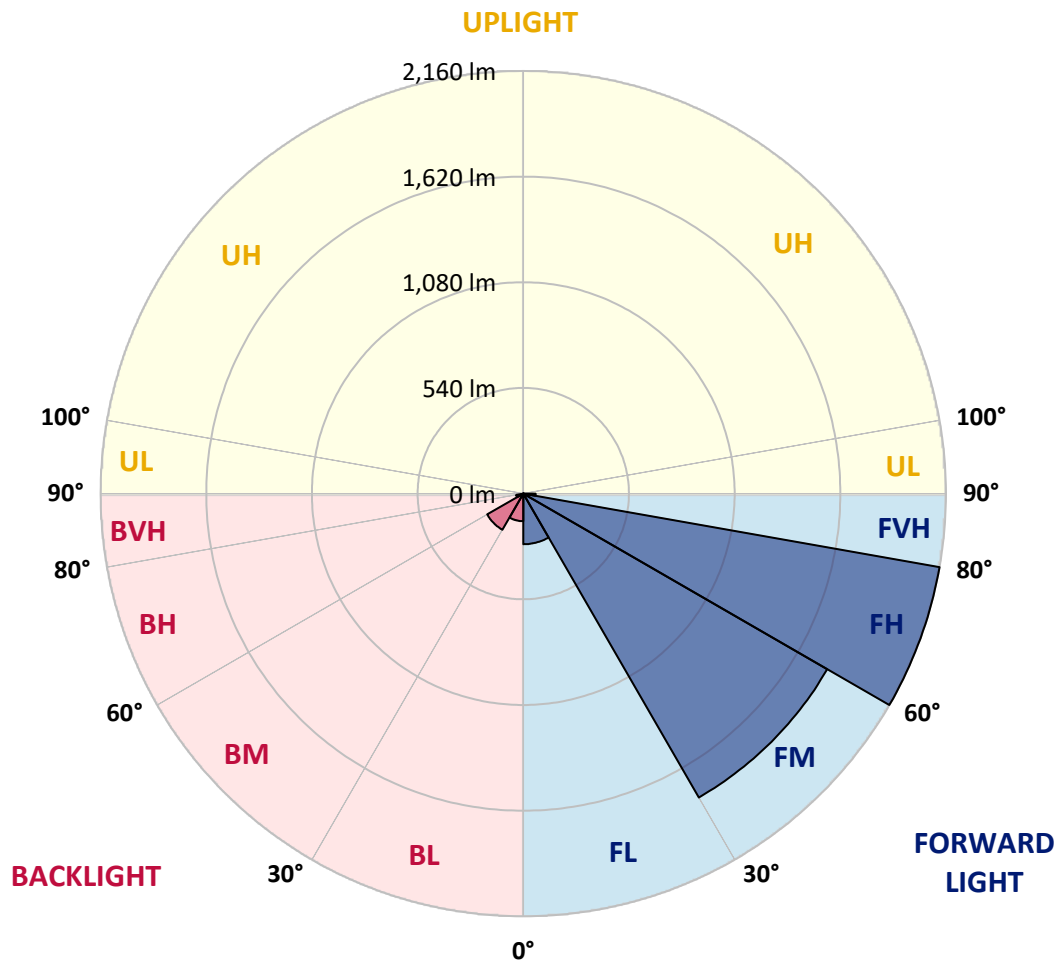


REPORT NUMBER: P450708
 CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.6	5.5			
FM	(30°-60°)	1793.0	38.4			
FH	(60°-80°)	2159.7	46.3			G2/5000
FVH	(80°-90°)	63.0	1.3			G1/100
BL	(0°-30°)	140.8	3.0	B1/500		
BM	(30°-60°)	213.2	4.6	B0/220		
BH	(60°-80°)	36.5	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	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: P450708

CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	695.8	702.9	701.9	704.4	710.5	713.0	719.8	727.3	737.7	744.8	749.5
5°	623.1	628.5	629.2	641.7	647.8	654.6	674.6	696.5	720.8	740.2	753.1
7.5°	545.4	548.2	554.0	570.4	585.8	592.6	623.1	661.0	699.4	735.5	758.8
10°	481.3	484.5	494.9	512.4	526.8	535.7	578.0	625.6	679.3	733.0	767.0
12.5°	444.8	446.5	450.5	466.2	484.5	494.2	539.6	594.1	663.2	734.1	781.0
15°	442.2	441.5	436.9	443.3	459.8	469.8	514.2	572.6	648.9	737.7	797.5
17.5°	455.5	453.7	442.6	442.6	456.2	464.4	503.5	561.1	641.7	745.9	820.7
20°	475.9	473.0	454.8	453.3	466.6	475.2	509.9	561.8	643.1	761.3	851.9
22.5°	501.7	498.5	470.9	471.6	485.9	494.5	528.5	574.7	652.1	780.3	885.2
25°	535.3	531.8	499.2	497.7	512.8	520.3	556.1	597.7	664.6	803.9	928.9
27.5°	580.1	572.6	533.6	531.4	547.5	557.2	589.4	628.5	686.8	836.5	987.6
30°	617.0	608.8	571.5	565.8	583.0	590.5	623.8	670.0	730.5	893.4	1068.9
32.5°	665.3	653.2	609.5	594.4	612.7	622.4	673.6	747.3	795.3	953.6	1165.6
35°	774.2	766.7	713.3	660.7	659.6	671.8	747.0	825.4	861.9	1047.4	1297.4
37.5°	930.0	924.6	868.0	797.5	777.1	771.3	836.1	911.3	968.3	1176.3	1450.6
40°	1110.8	1098.3	1046.3	986.5	960.0	943.2	941.4	1039.2	1107.2	1351.4	1610.3
42.5°	1240.4	1217.5	1154.5	1150.2	1144.5	1126.9	1076.1	1226.1	1286.6	1539.8	1781.2
45°	1376.5	1341.8	1248.0	1231.8	1229.7	1228.6	1279.5	1447.4	1482.1	1743.9	1956.6
47.5°	1482.1	1454.6	1377.6	1370.4	1379.4	1403.7	1548.4	1682.3	1675.2	1925.8	2103.8
50°	1622.9	1602.1	1516.5	1530.1	1576.3	1616.1	1851.7	1938.4	1833.8	2069.1	2210.9
52.5°	1789.0	1750.7	1671.2	1708.1	1779.0	1845.3	2173.6	2162.5	1945.2	2176.8	2290.7
55°	1933.0	1905.8	1878.6	1916.9	2022.9	2105.6	2464.4	2330.5	2026.1	2263.5	2325.8
57.5°	2176.5	2170.0	2142.1	2181.1	2309.7	2395.6	2724.7	2460.8	2078.0	2308.6	2284.6
60°	2536.7	2526.3	2474.4	2524.2	2691.8	2826.8	2964.7	2577.9	2089.8	2291.1	2166.1
62.5°	2970.0	2934.6	2890.2	2963.6	3193.5	3252.9	3190.6	2647.4	2045.8	2151.4	1880.3
65°	3374.7	3338.1	3339.2	3493.9	3744.2	3784.7	3454.2	2637.0	1916.9	1801.6	1386.9
67.5°	3684.4	3678.3	3722.0	4023.9	4351.2	4323.3	3689.8	2481.6	1534.8	1167.7	737.0
70°	3700.2	3712.0	3837.3	4346.9	4679.2	4634.8	3669.7	2017.1	956.8	537.1	290.4
71°	3509.7	3589.2	3762.5	4336.9	4698.5	4640.9	3500.7	1689.5	701.9	374.6	209.5
72.5°	2990.8	3032.7	3407.3	4081.5	4545.6	4422.4	3072.1	1184.2	449.4	229.2	120.3
75°	1647.2	1750.4	2281.8	3202.1	3635.7	3527.6	2002.1	562.6	224.2	125.3	49.8
77.5°	784.2	764.2	1113.3	1904.3	2465.1	2459.4	1008.7	249.9	130.7	84.9	25.1
80°	224.2	252.1	426.1	905.3	1368.6	1383.7	387.5	120.7	90.6	66.2	12.9
82.5°	67.7	69.1	156.5	400.3	680.7	641.7	145.4	61.6	65.2	52.6	7.5
85°	11.8	14.7	46.2	141.1	259.6	197.0	36.5	29.4	43.0	34.7	4.3
87.5°	0.7	1.1	15.4	16.1	22.9	13.2	6.4	4.3	9.3	9.3	2.5
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: P450708
 CATALOG NUMBER: GALN-SA1C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	752.7	754.9	753.4	750.2	744.8	738.4	729.8	722.6	716.5	713.3	717.3
5°	757.4	760.2	753.1	737.0	712.6	686.1	656.0	632.8	614.5	608.8	606.6
7.5°	764.5	766.3	747.0	711.2	659.6	596.9	542.2	496.0	460.1	449.4	433.7
10°	773.8	772.8	736.2	669.6	579.0	484.9	400.0	337.0	289.3	272.2	270.7
12.5°	788.2	782.4	722.6	613.1	483.1	359.9	255.0	199.5	169.4	159.4	157.2
15°	806.1	792.5	701.1	546.8	369.9	232.4	157.2	140.4	136.4	135.7	135.0
17.5°	827.2	805.7	672.9	465.5	260.0	150.8	131.4	131.1	131.4	130.7	130.3
20°	855.8	819.7	639.2	369.2	171.9	127.1	125.3	125.3	125.7	125.3	125.3
22.5°	886.3	836.1	597.7	281.8	129.6	120.7	120.3	121.0	121.8	121.4	121.4
25°	923.9	857.6	542.9	193.0	116.0	115.3	115.7	117.1	118.5	118.9	118.5
27.5°	978.3	884.1	484.1	132.9	106.4	107.1	110.7	114.2	116.4	116.7	116.7
30°	1039.5	913.5	407.5	107.8	98.5	98.5	102.8	109.6	114.2	114.9	115.3
32.5°	1118.3	947.5	322.6	97.0	91.0	90.2	94.2	102.4	111.0	113.5	113.5
35°	1215.7	987.6	239.9	90.2	85.6	83.8	85.9	92.7	103.8	111.0	111.7
37.5°	1330.0	1025.6	175.5	84.2	80.6	78.1	79.5	84.9	93.8	104.6	107.4
40°	1435.6	1059.2	131.1	79.1	75.6	73.8	74.8	77.3	84.9	94.9	96.7
42.5°	1550.9	1085.4	104.2	73.8	70.5	69.8	69.8	70.9	75.9	81.6	82.0
45°	1665.8	1094.7	87.4	67.3	65.2	65.9	65.5	64.8	67.0	66.2	66.2
47.5°	1747.9	1083.6	72.3	61.2	61.2	62.3	60.5	58.0	56.9	52.6	53.0
50°	1804.1	1043.1	59.4	54.1	56.9	58.4	54.8	50.8	46.9	42.3	41.2
52.5°	1827.3	971.1	48.7	44.8	50.5	52.3	48.0	43.3	37.2	33.3	32.2
55°	1812.3	882.3	40.5	36.5	42.6	44.8	40.5	35.1	28.3	24.0	23.3
57.5°	1746.1	776.3	34.4	29.0	34.0	35.5	32.6	26.9	20.1	15.8	15.8
60°	1631.5	666.8	27.9	22.9	25.4	27.6	24.7	19.3	13.6	9.7	9.0
62.5°	1399.1	541.4	22.6	17.9	17.9	19.7	17.2	14.0	8.6	5.0	4.7
65°	1010.2	371.3	17.9	13.2	12.9	12.9	10.7	9.3	5.0	2.1	1.4
67.5°	549.0	209.5	14.3	10.0	9.0	8.6	6.8	5.4	2.1	0.4	0.0
70°	215.9	80.6	11.1	6.8	5.7	5.4	3.6	2.5	1.4	0.0	0.0
71°	146.5	55.5	9.7	5.7	4.7	3.9	2.9	2.1	1.1	0.0	0.0
72.5°	83.8	34.4	7.5	4.3	3.6	2.9	2.1	1.4	1.1	0.0	0.0
75°	36.5	17.5	4.7	3.2	2.5	1.8	1.4	1.1	0.4	0.0	0.0
77.5°	18.6	9.7	3.2	2.5	1.4	1.1	0.7	0.4	0.0	0.0	0.0
80°	10.4	5.0	2.1	1.4	1.1	0.7	0.4	0.4	0.0	0.0	0.0
82.5°	5.7	2.9	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.7	0.0	0.0	0.0	0.0	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)