

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: P458596

Luminaire Tested: **GALN-SA1C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458596
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4772 lumens
Efficiency: N/A
Efficacy: 83.7 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

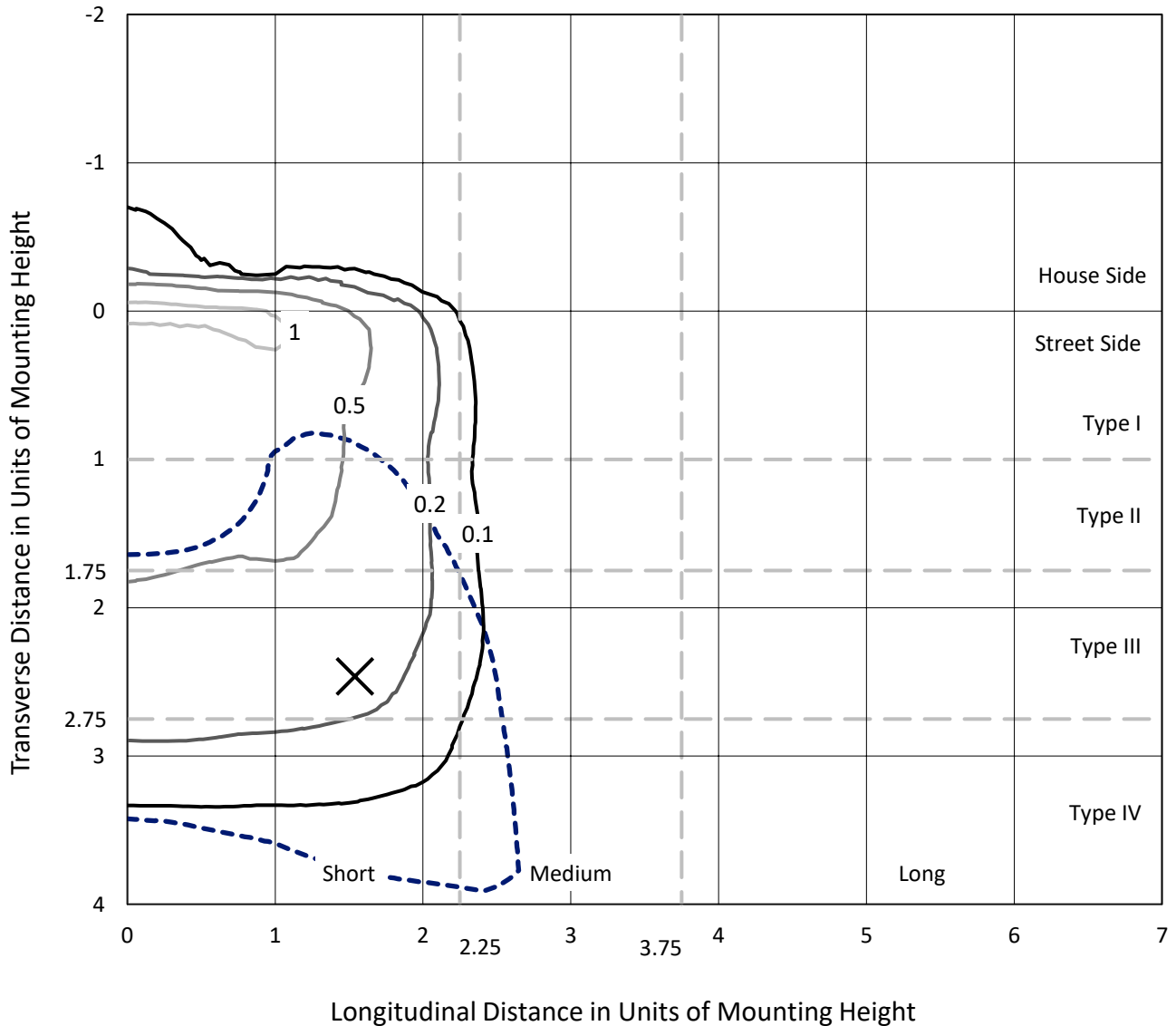
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458596
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

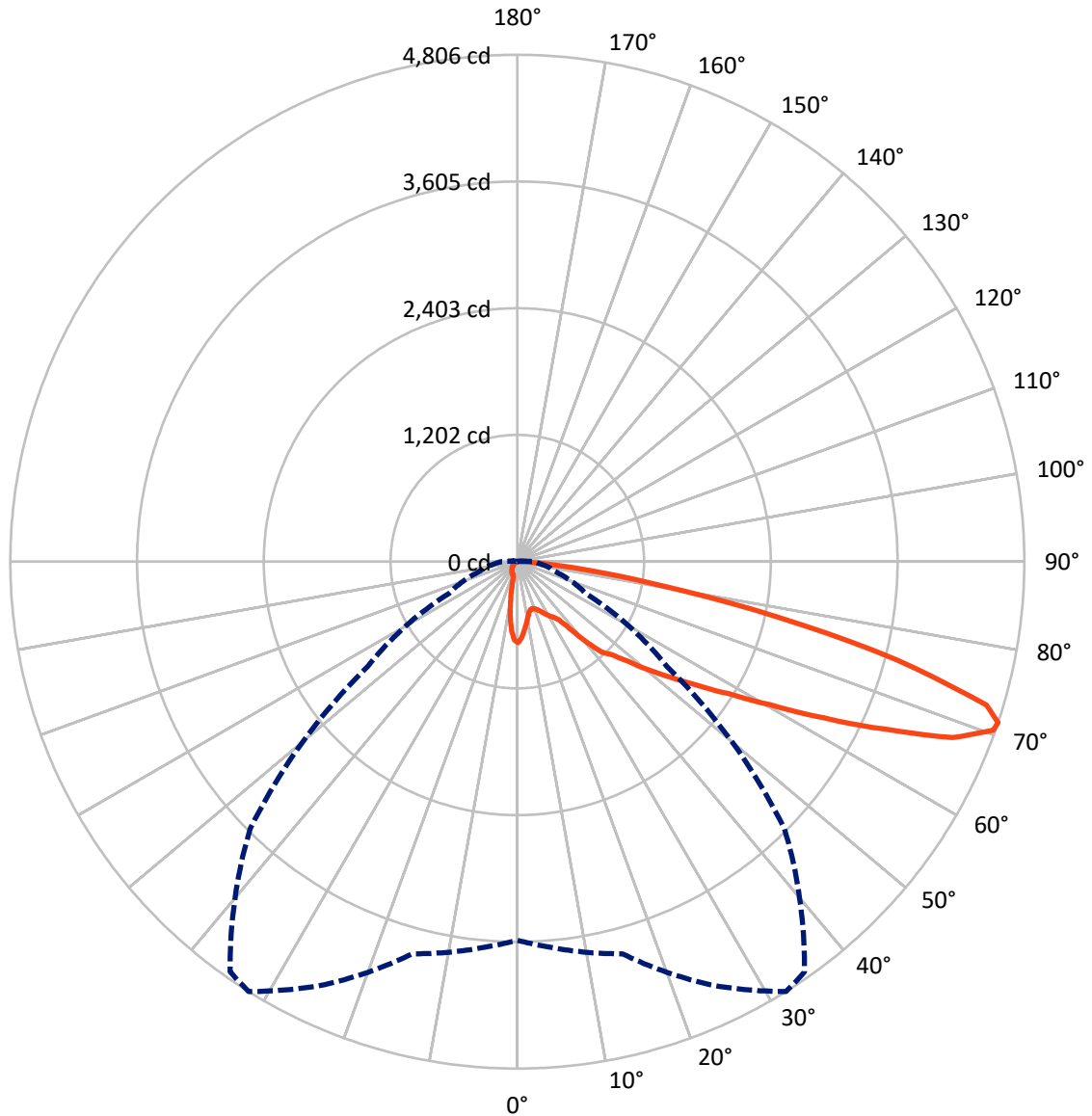
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458596
CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458596
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

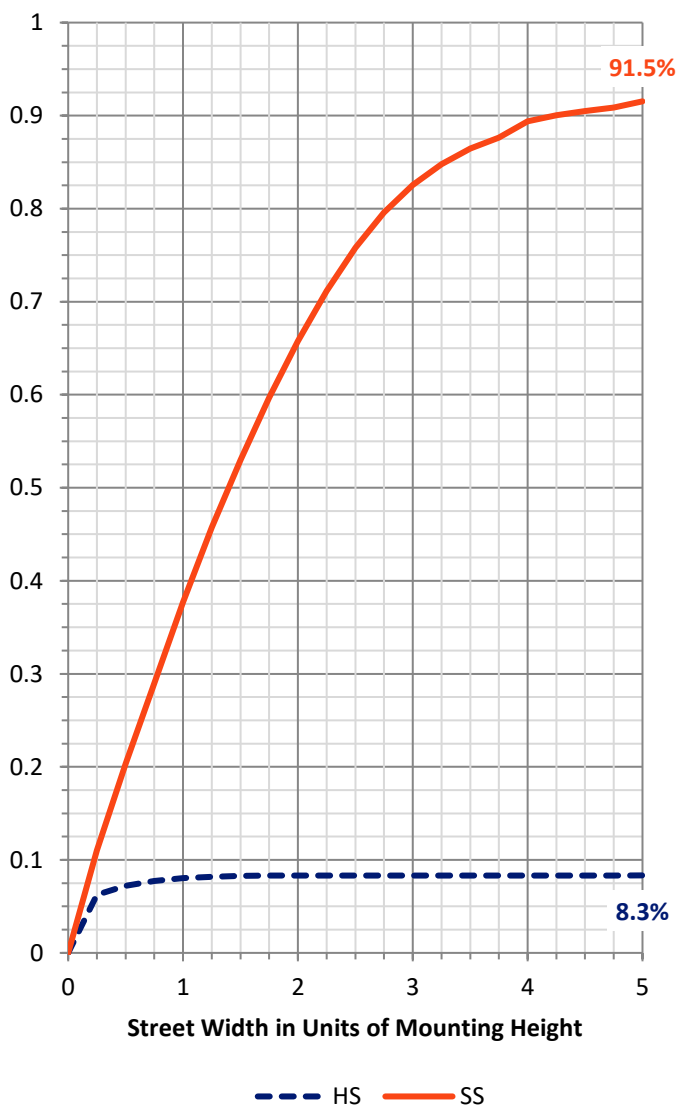
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.7	0.0	399.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4372.3	0.0	4372.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	4772.0	0.0	4772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.3
10°-20°	135.4	2.8
20°-30°	210.7	4.4
30°-40°	351.0	7.4
40°-50°	652.9	13.7
50°-60°	1048.3	22.0
60°-70°	1410.0	29.5
70°-80°	836.6	17.5
80°-90°	64.7	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°	4772.0	100.0
0°-180°	4772.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458596

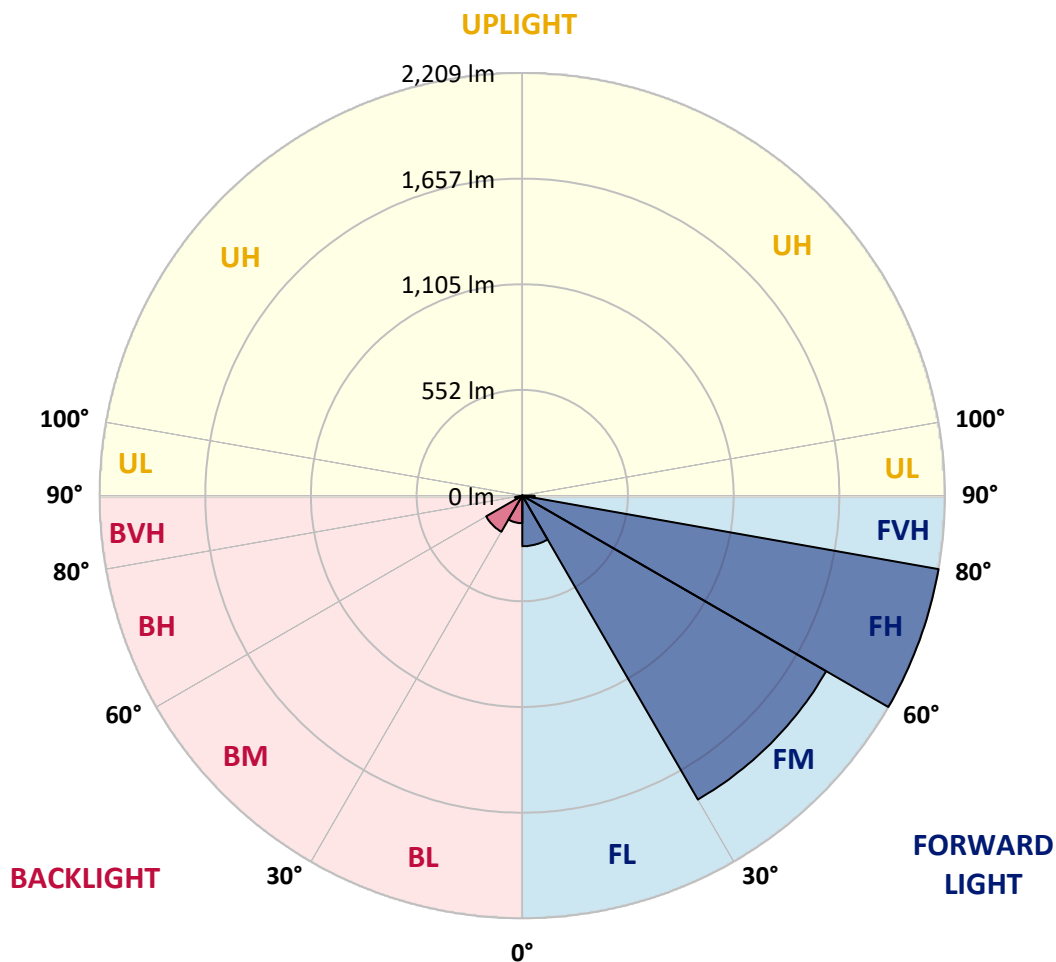
CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.5	5.5			
FM	(30°-60°)	1834.2	38.4			
FH	(60°-80°)	2209.2	46.3			G2/5000
FVH	(80°-90°)	64.4	1.3			G1/100
BL	(0°-30°)	144.0	3.0	B1/500		
BM	(30°-60°)	218.0	4.6	B0/220		
BH	(60°-80°)	37.4	0.8	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 IV Short





REPORT NUMBER: P458596

CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4
2.5°	711.7	719.1	718.0	720.5	726.8	729.3	736.3	744.0	754.6	761.9	766.7
5°	637.4	642.9	643.6	656.4	662.6	669.6	690.1	712.5	737.4	757.2	770.3
7.5°	557.9	560.8	566.7	583.5	599.3	606.2	637.4	676.2	715.4	752.4	776.2
10°	492.3	495.6	506.2	524.2	538.8	548.0	591.2	639.9	694.9	749.8	784.6
12.5°	455.0	456.8	460.8	476.9	495.6	505.5	552.0	607.7	678.4	750.9	798.9
15°	452.4	451.7	446.9	453.5	470.3	480.6	526.0	585.7	663.7	754.6	815.8
17.5°	465.9	464.1	452.8	452.8	466.7	475.1	515.0	574.0	656.4	763.0	839.6
20°	486.8	483.9	465.2	463.7	477.3	486.1	521.6	574.7	657.9	778.8	871.4
22.5°	513.2	509.9	481.7	482.4	497.1	505.9	540.7	587.9	667.0	798.2	905.5
25°	547.6	544.0	510.6	509.2	524.6	532.2	568.9	611.4	679.9	822.4	950.2
27.5°	593.4	585.7	545.8	543.6	560.1	570.0	602.9	642.9	702.6	855.7	1010.3
30°	631.1	622.7	584.6	578.8	596.3	604.0	638.1	685.4	747.3	913.9	1093.4
32.5°	680.6	668.1	623.5	608.1	626.8	636.6	689.0	764.5	813.6	975.5	1192.3
35°	792.0	784.3	729.7	675.8	674.7	687.2	764.1	844.3	881.7	1071.4	1327.1
37.5°	951.3	945.8	887.9	815.8	794.9	789.0	855.3	932.3	990.5	1203.3	1483.9
40°	1136.3	1123.5	1070.3	1009.2	982.1	964.9	963.0	1063.0	1132.6	1382.4	1647.3
42.5°	1268.9	1245.4	1181.0	1176.6	1170.7	1152.8	1100.8	1254.2	1316.1	1575.1	1822.0
45°	1408.1	1372.6	1276.6	1260.1	1257.9	1256.8	1308.8	1480.6	1516.1	1783.9	2001.5
47.5°	1516.1	1487.9	1409.2	1401.9	1411.0	1435.9	1583.9	1720.9	1713.6	1970.0	2152.1
50°	1660.1	1638.9	1551.3	1565.2	1612.5	1653.1	1894.2	1982.8	1875.9	2116.5	2261.6
52.5°	1830.1	1790.9	1709.6	1747.3	1819.8	1887.6	2223.5	2212.1	1989.8	2226.8	2343.3
55°	1977.3	1949.5	1921.6	1960.8	2069.3	2153.9	2520.9	2383.9	2072.6	2315.4	2379.2
57.5°	2226.4	2219.8	2191.2	2231.2	2362.7	2450.6	2787.2	2517.3	2125.7	2361.6	2337.0
60°	2594.9	2584.3	2531.2	2582.1	2753.5	2891.6	3032.7	2637.0	2137.8	2343.6	2215.8
62.5°	3038.1	3001.9	2956.5	3031.6	3266.7	3327.5	3263.8	2708.1	2092.7	2200.8	1923.5
65°	3452.1	3414.7	3415.8	3574.1	3830.1	3871.5	3533.4	2697.5	1960.8	1842.9	1418.7
67.5°	3768.9	3762.7	3807.4	4116.2	4451.0	4422.4	3774.4	2538.5	1570.0	1194.5	753.9
70°	3785.0	3797.1	3925.3	4446.6	4786.5	4741.1	3753.9	2063.4	978.8	549.5	297.1
71°	3590.2	3671.5	3848.8	4436.3	4806.3	4747.3	3581.0	1728.2	718.0	383.2	214.3
72.5°	3059.4	3102.2	3485.4	4175.2	4649.9	4523.9	3142.5	1211.4	459.7	234.4	123.1
75°	1685.0	1790.5	2334.1	3275.5	3719.1	3608.5	2048.0	575.5	229.3	128.2	50.9
77.5°	802.2	781.7	1138.8	1948.0	2521.7	2515.8	1031.9	255.7	133.7	86.8	25.6
80°	229.3	257.9	435.9	926.0	1400.0	1415.4	396.3	123.4	92.7	67.8	13.2
82.5°	69.2	70.7	160.1	409.5	696.3	656.4	148.7	63.0	66.7	53.8	7.7
85°	12.1	15.0	47.3	144.3	265.6	201.5	37.4	30.0	44.0	35.5	4.4
87.5°	0.7	1.1	15.8	16.5	23.4	13.6	6.6	4.4	9.5	9.5	2.6
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: P458596
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4
2.5°	770.0	772.2	770.7	767.4	761.9	755.3	746.5	739.2	733.0	729.7	733.7
5°	774.7	777.7	770.3	753.9	728.9	701.8	671.1	647.3	628.6	622.7	620.5
7.5°	782.1	783.9	764.1	727.5	674.7	610.6	554.6	507.3	470.7	459.7	443.6
10°	791.6	790.5	753.1	685.0	592.3	496.0	409.2	344.7	296.0	278.4	276.9
12.5°	806.2	800.4	739.2	627.1	494.1	368.1	260.8	204.0	173.3	163.0	160.8
15°	824.6	810.6	717.2	559.4	378.4	237.7	160.8	143.6	139.6	138.8	138.1
17.5°	846.2	824.2	688.3	476.2	265.9	154.2	134.4	134.1	134.4	133.7	133.3
20°	875.5	838.5	653.9	377.7	175.8	130.0	128.2	128.2	128.6	128.2	128.2
22.5°	906.6	855.3	611.4	288.3	132.6	123.4	123.1	123.8	124.5	124.2	124.2
25°	945.1	877.3	555.3	197.4	118.7	118.0	118.3	119.8	121.2	121.6	121.2
27.5°	1000.7	904.4	495.2	135.9	108.8	109.5	113.2	116.9	119.0	119.4	119.4
30°	1063.4	934.4	416.9	110.3	100.7	100.7	105.1	112.1	116.9	117.6	118.0
32.5°	1144.0	969.2	330.0	99.3	93.0	92.3	96.3	104.8	113.6	116.1	116.1
35°	1243.6	1010.3	245.4	92.3	87.5	85.7	87.9	94.9	106.2	113.6	114.3
37.5°	1360.5	1049.1	179.5	86.1	82.4	79.9	81.3	86.8	96.0	107.0	109.9
40°	1468.5	1083.5	134.1	81.0	77.3	75.5	76.6	79.1	86.8	97.1	98.9
42.5°	1586.5	1110.3	106.6	75.5	72.2	71.4	71.4	72.5	77.7	83.5	83.9
45°	1704.1	1119.8	89.4	68.9	66.7	67.4	67.0	66.3	68.5	67.8	67.8
47.5°	1787.9	1108.4	74.0	62.6	62.6	63.7	61.9	59.3	58.2	53.8	54.2
50°	1845.5	1067.1	60.8	55.3	58.2	59.7	56.0	52.0	48.0	43.2	42.1
52.5°	1869.3	993.4	49.8	45.8	51.6	53.5	49.1	44.3	38.1	34.1	33.0
55°	1853.9	902.6	41.4	37.4	43.6	45.8	41.4	35.9	28.9	24.5	23.8
57.5°	1786.1	794.2	35.2	29.7	34.8	36.3	33.3	27.5	20.5	16.1	16.1
60°	1668.9	682.1	28.6	23.4	26.0	28.2	25.3	19.8	13.9	9.9	9.2
62.5°	1431.2	553.9	23.1	18.3	18.3	20.1	17.6	14.3	8.8	5.1	4.8
65°	1033.4	379.9	18.3	13.6	13.2	13.2	11.0	9.5	5.1	2.2	1.5
67.5°	561.5	214.3	14.7	10.3	9.2	8.8	7.0	5.5	2.2	0.4	0.0
70°	220.9	82.4	11.4	7.0	5.9	5.5	3.7	2.6	1.5	0.0	0.0
71°	149.8	56.8	9.9	5.9	4.8	4.0	2.9	2.2	1.1	0.0	0.0
72.5°	85.7	35.2	7.7	4.4	3.7	2.9	2.2	1.5	1.1	0.0	0.0
75°	37.4	17.9	4.8	3.3	2.6	1.8	1.5	1.1	0.4	0.0	0.0
77.5°	19.0	9.9	3.3	2.6	1.5	1.1	0.7	0.4	0.0	0.0	0.0
80°	10.6	5.1	2.2	1.5	1.1	0.7	0.4	0.4	0.0	0.0	0.0
82.5°	5.9	2.9	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	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)