

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: P450664

Luminaire Tested: **GALN-SA1C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450664
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-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4894 lumens
Efficiency: N/A
Efficacy: 85.9 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

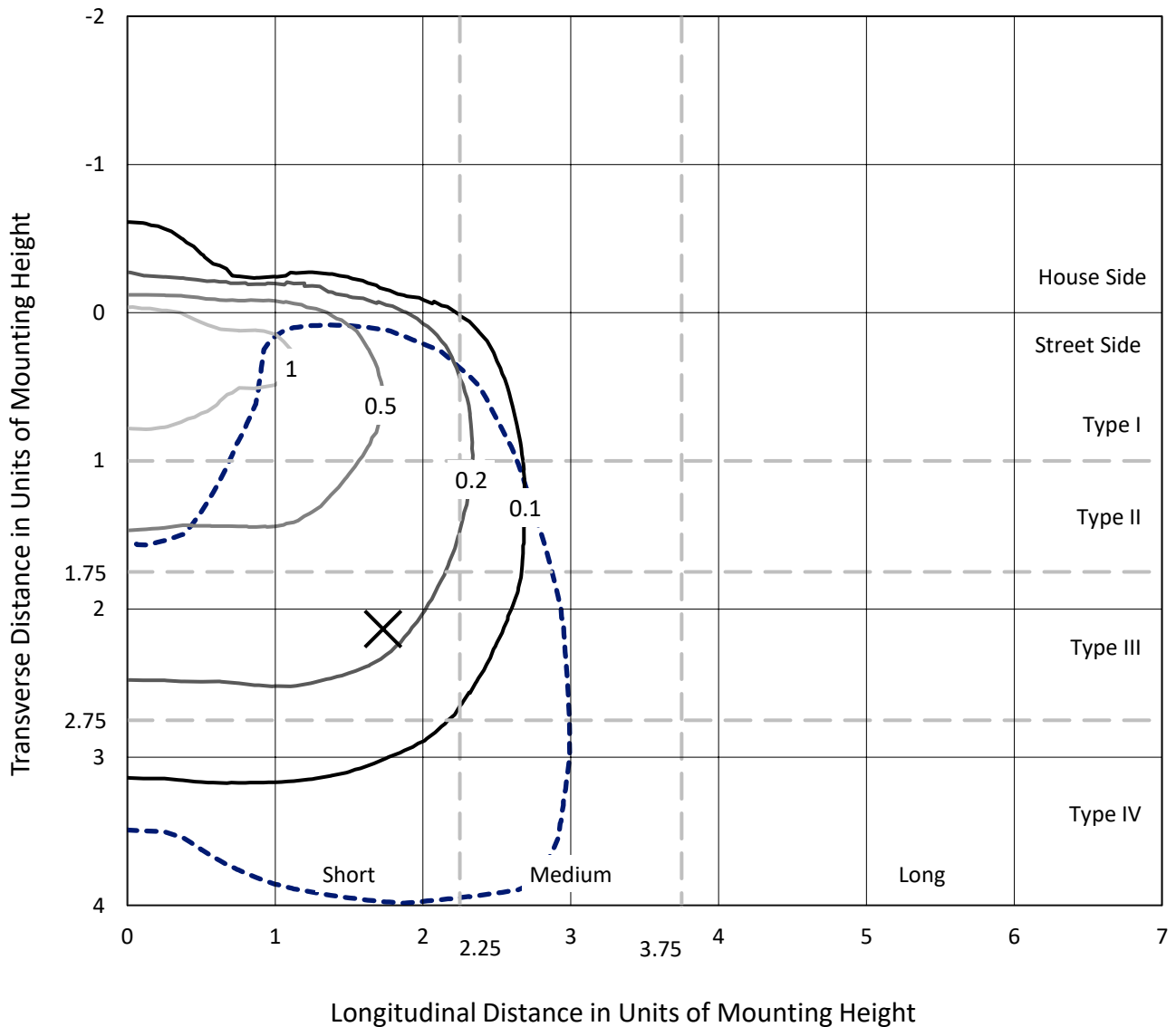
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

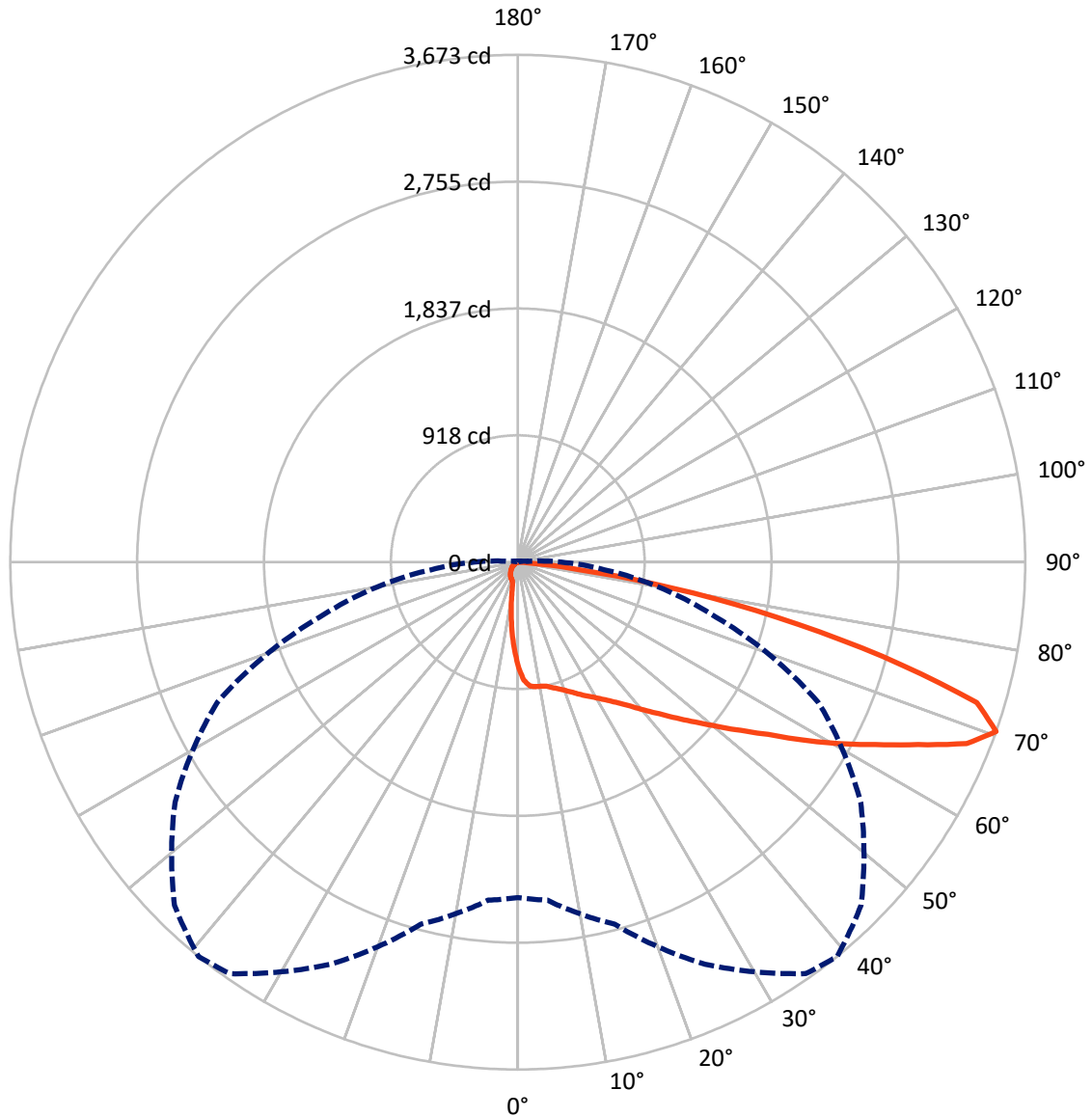
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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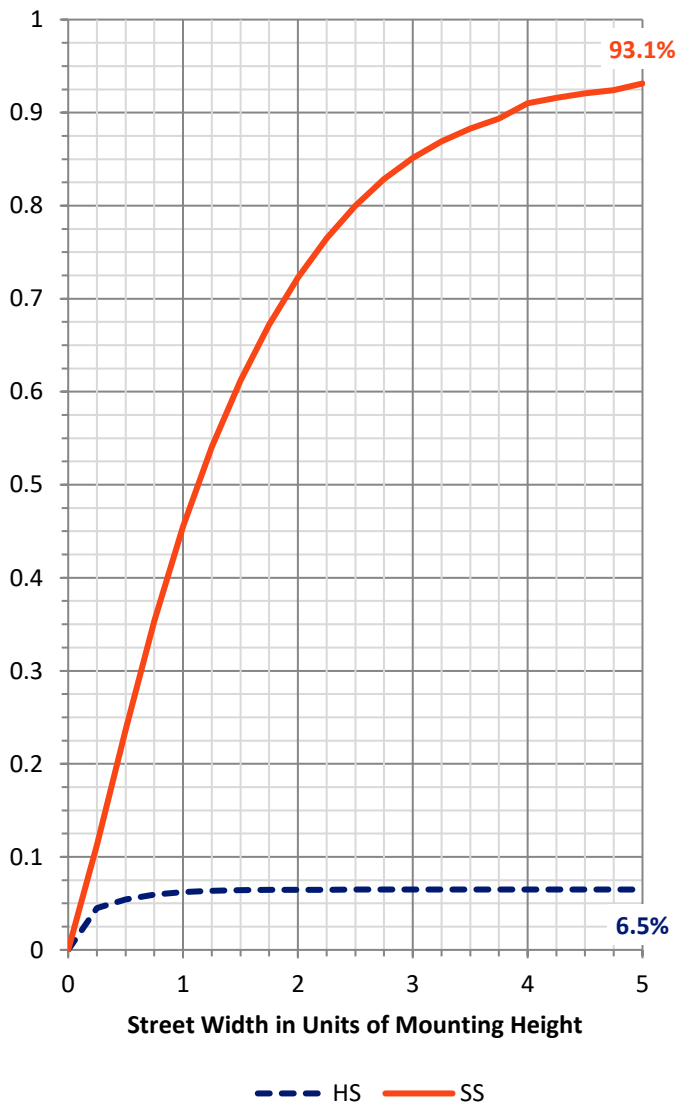
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.1	0.0	319.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4574.9	0.0	4574.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	4894.0	0.0	4894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.3
10°-20°	169.3	3.5
20°-30°	283.6	5.8
30°-40°	439.8	9.0
40°-50°	696.9	14.2
50°-60°	1021.5	20.9
60°-70°	1309.4	26.8
70°-80°	822.8	16.8
80°-90°	85.7	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°	4894.0	100.0
0°-180°	4894.0	100.0

Coefficient of Utilization



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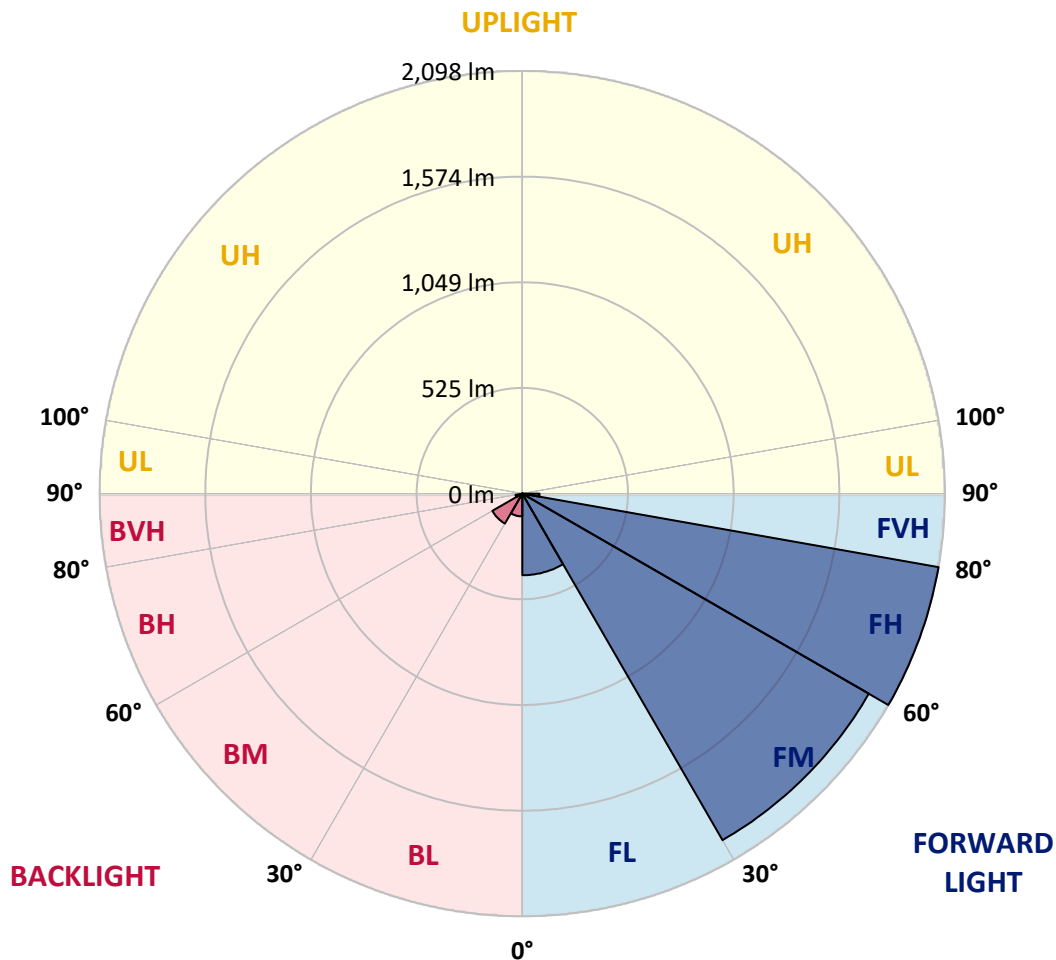
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.0	8.3			
FM (30°-60°)	1986.5	40.6			
FH (60°-80°)	2098.4	42.9			G2/5000
FVH (80°-90°)	85.1	1.7			G1/100
BL (0°-30°)	113.0	2.3	B1/500		
BM (30°-60°)	171.7	3.5	B0/220		
BH (60°-80°)	33.8	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	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°	35°	39°	45°	55°	65°	75°	85°
0°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	882.4	879.4	875.4	870.8	857.7	855.4	847.5	830.7	810.7	794.2	771.5
5°	924.1	925.8	922.8	914.6	905.0	899.5	889.6	863.6	837.6	804.4	767.2
7.5°	933.7	936.9	933.3	925.4	916.2	910.3	902.4	880.1	849.8	812.0	761.0
10°	932.7	936.6	934.3	927.1	919.5	913.9	905.4	887.6	863.3	823.5	763.0
12.5°	931.0	936.3	936.0	932.3	926.1	921.8	916.6	900.8	878.1	840.3	773.8
15°	926.4	933.0	938.9	941.9	942.2	942.2	935.6	918.9	897.2	862.3	788.0
17.5°	928.4	936.0	950.8	959.3	965.2	964.6	957.7	939.6	915.6	885.0	802.8
20°	940.6	950.8	971.5	988.6	994.5	992.5	983.3	962.3	935.0	904.4	817.2
22.5°	970.5	979.7	1005.7	1025.7	1030.0	1024.8	1011.6	983.0	958.3	925.4	834.7
25°	1015.2	1026.1	1050.1	1065.2	1065.2	1062.2	1043.8	1010.3	984.6	954.7	857.4
27.5°	1069.5	1078.7	1102.4	1115.8	1108.0	1099.4	1081.0	1040.5	1015.9	991.5	884.7
30°	1124.4	1130.3	1155.3	1161.2	1153.0	1142.2	1122.4	1082.0	1060.3	1041.5	924.1
32.5°	1176.4	1189.2	1209.9	1208.6	1197.4	1192.1	1174.1	1131.0	1118.8	1116.8	979.4
35°	1228.3	1238.2	1256.6	1261.2	1251.3	1250.4	1237.2	1205.3	1205.6	1218.5	1065.5
37.5°	1273.0	1281.9	1303.6	1313.8	1315.8	1320.7	1315.5	1294.4	1324.4	1359.5	1179.7
40°	1310.5	1323.0	1350.7	1368.4	1388.8	1406.9	1407.9	1412.5	1472.7	1533.2	1328.6
42.5°	1339.8	1357.2	1397.4	1430.2	1476.9	1500.0	1518.4	1543.7	1645.0	1735.4	1504.2
45°	1378.0	1398.0	1448.0	1499.6	1572.6	1610.5	1636.1	1703.9	1847.6	1970.9	1684.5
47.5°	1441.1	1451.6	1502.6	1577.9	1673.9	1727.9	1777.9	1880.5	2065.0	2175.5	1834.4
50°	1522.3	1529.2	1567.7	1672.3	1796.6	1867.6	1958.7	2079.4	2290.6	2345.2	1919.3
52.5°	1612.1	1614.4	1643.4	1776.2	1934.1	2023.5	2125.5	2274.5	2474.4	2466.2	1975.5
55°	1716.4	1713.1	1737.7	1889.0	2096.9	2199.1	2317.9	2474.1	2633.9	2552.0	2007.7
57.5°	1835.7	1826.9	1850.9	2038.7	2305.4	2427.7	2548.4	2646.4	2757.6	2624.0	2023.2
60°	1960.7	1943.0	1971.6	2206.7	2551.0	2667.1	2767.4	2793.7	2887.8	2681.3	1996.6
62.5°	2060.4	2060.7	2114.0	2385.6	2803.6	2905.2	2958.5	2982.2	2999.9	2668.8	1856.5
65°	2215.9	2221.2	2306.4	2633.9	3096.0	3184.1	3220.6	3143.7	3004.9	2513.5	1646.0
67.5°	2376.4	2393.2	2549.1	2975.9	3433.7	3504.7	3457.7	3174.9	2870.7	2159.3	1248.1
70°	2428.7	2456.3	2713.2	3211.4	3636.3	3673.1	3514.0	3029.2	2399.8	1443.7	628.1
72.5°	2225.5	2270.2	2618.8	3125.6	3507.1	3475.1	3144.0	2540.5	1525.6	548.2	191.7
75°	1569.4	1589.1	2176.4	2592.8	2820.7	2730.3	2391.5	1637.8	627.5	153.9	65.8
77.5°	810.3	800.8	1294.4	1720.3	2011.7	1918.0	1566.1	847.8	237.8	64.1	40.8
80°	419.0	425.9	560.1	901.4	1228.0	1130.0	835.0	393.0	126.6	35.5	31.2
82.5°	234.8	220.3	322.0	393.7	574.2	450.2	320.3	278.2	55.2	21.4	29.6
85°	42.8	44.7	176.6	212.8	199.3	126.6	103.3	185.8	16.1	11.8	20.7
87.5°	0.7	0.7	34.2	61.2	38.8	17.8	32.6	26.6	3.3	4.6	3.6
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°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	760.0	747.5	724.2	701.1	671.9	647.9	631.8	615.0	597.9	599.2	603.1
5°	746.9	725.2	679.1	630.4	583.7	541.6	500.2	463.0	447.9	434.1	434.8
7.5°	733.7	703.1	635.7	559.4	488.7	417.0	365.0	322.3	299.6	282.5	277.6
10°	727.8	687.3	595.9	491.0	390.7	312.4	245.7	210.8	183.8	175.3	177.6
12.5°	730.4	679.4	560.1	429.2	309.8	217.7	171.0	153.3	147.3	146.3	145.7
15°	735.3	673.9	524.9	360.8	227.6	161.8	143.7	140.4	139.8	139.1	139.4
17.5°	741.9	668.9	487.4	296.6	174.6	141.4	136.2	134.5	134.2	134.2	134.2
20°	748.5	663.3	445.6	239.4	145.7	133.5	130.2	129.2	128.9	128.9	128.6
22.5°	756.1	658.4	403.2	188.1	134.2	127.9	125.0	124.3	124.0	123.7	123.7
25°	766.9	652.1	358.1	153.9	126.9	122.7	119.7	119.1	118.7	117.4	117.7
27.5°	781.4	647.5	311.8	132.9	120.4	116.1	114.1	113.1	112.5	111.5	111.8
30°	801.1	643.6	262.4	121.4	112.8	109.2	107.2	106.6	105.9	104.9	104.9
32.5°	835.3	645.2	210.5	112.1	105.9	101.6	99.6	99.0	98.3	97.3	97.3
35°	886.6	654.8	168.4	104.3	97.7	93.4	91.4	91.4	90.4	89.1	88.8
37.5°	970.5	679.1	135.2	96.7	89.8	85.8	83.5	82.9	81.9	79.9	79.6
40°	1069.5	716.9	113.8	89.1	82.5	78.6	76.6	74.7	72.0	70.0	69.7
42.5°	1193.8	755.7	98.7	81.6	75.6	72.0	69.7	66.4	62.5	59.9	59.5
45°	1323.4	791.3	88.5	74.7	69.1	66.1	63.5	58.2	53.3	50.0	49.7
47.5°	1420.1	797.8	80.2	68.1	63.5	60.5	56.9	50.3	43.7	40.8	39.8
50°	1465.8	765.9	71.7	61.5	57.9	54.6	50.0	42.4	35.2	31.6	30.9
52.5°	1481.9	710.7	64.8	55.6	52.3	48.3	42.8	34.2	27.6	24.0	23.7
55°	1475.3	641.0	58.5	50.0	45.7	41.1	35.5	27.3	20.4	17.4	16.8
57.5°	1440.8	552.2	52.3	44.4	39.1	34.5	28.3	20.4	13.8	11.2	10.9
60°	1347.7	431.1	46.0	38.1	33.2	28.3	22.4	14.5	8.6	6.2	6.2
62.5°	1190.5	320.0	40.1	31.9	28.0	22.7	15.8	9.2	4.6	3.3	3.0
65°	994.8	236.1	33.5	27.0	23.3	17.8	11.2	5.6	2.3	1.0	0.7
67.5°	694.2	145.7	28.0	22.0	19.1	12.8	6.9	2.3	1.0	0.0	0.0
70°	315.4	69.4	21.4	16.8	14.5	9.2	3.6	1.3	0.7	0.0	0.0
72.5°	98.0	36.5	15.1	12.2	9.9	5.9	2.0	1.0	0.7	0.0	0.0
75°	45.4	23.3	9.5	6.6	5.6	3.0	1.3	0.7	0.3	0.0	0.0
77.5°	33.9	18.1	5.6	3.6	3.0	2.0	1.0	0.7	0.3	0.0	0.0
80°	29.6	9.2	3.3	2.3	1.6	1.3	0.7	0.3	0.0	0.0	0.0
82.5°	26.6	4.6	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
85°	14.5	2.6	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.0	0.7	0.7	0.3	0.3	0.3	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)