

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: P451338

Luminaire Tested: **GALN-SA2B-722-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6288 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

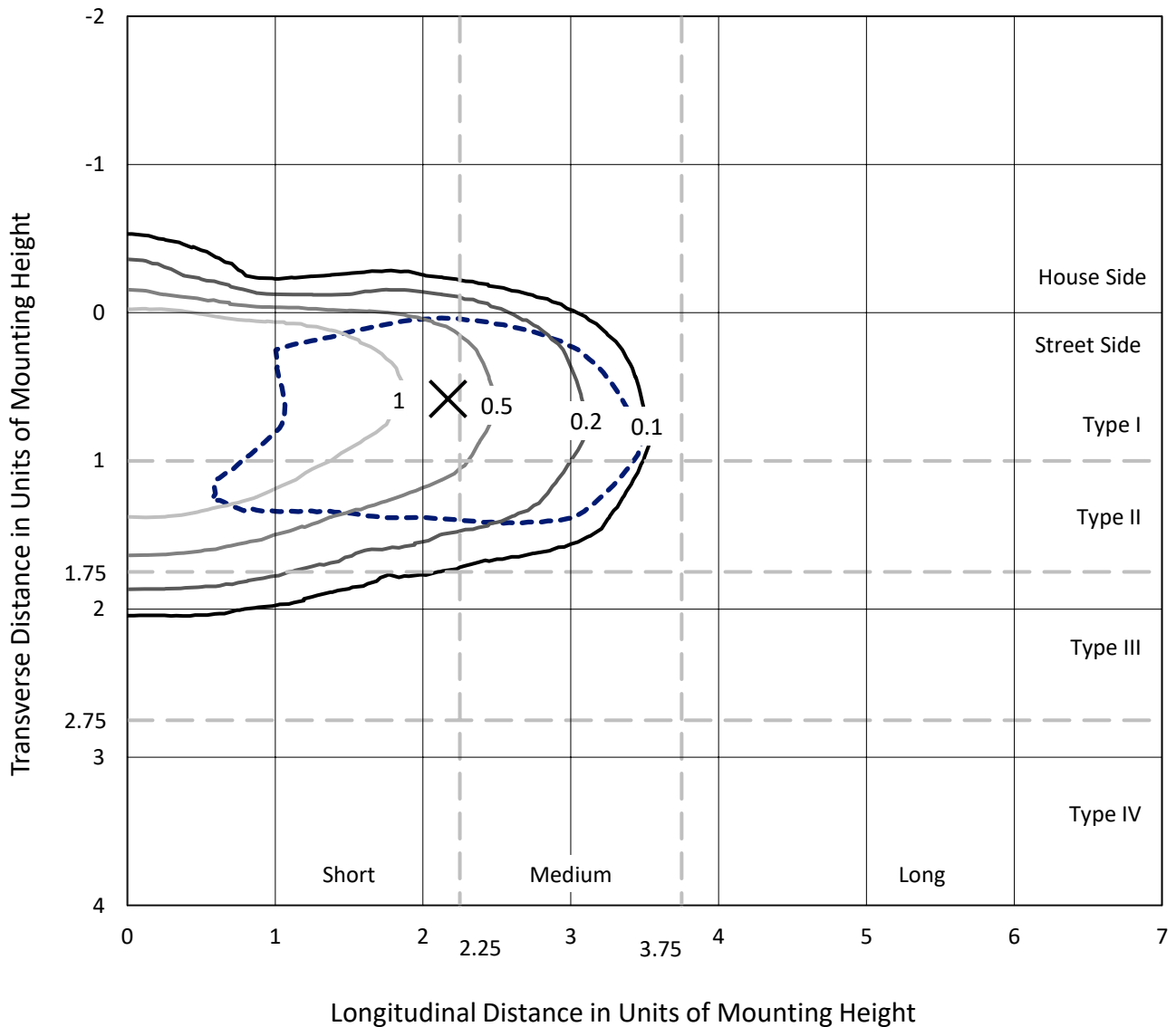
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

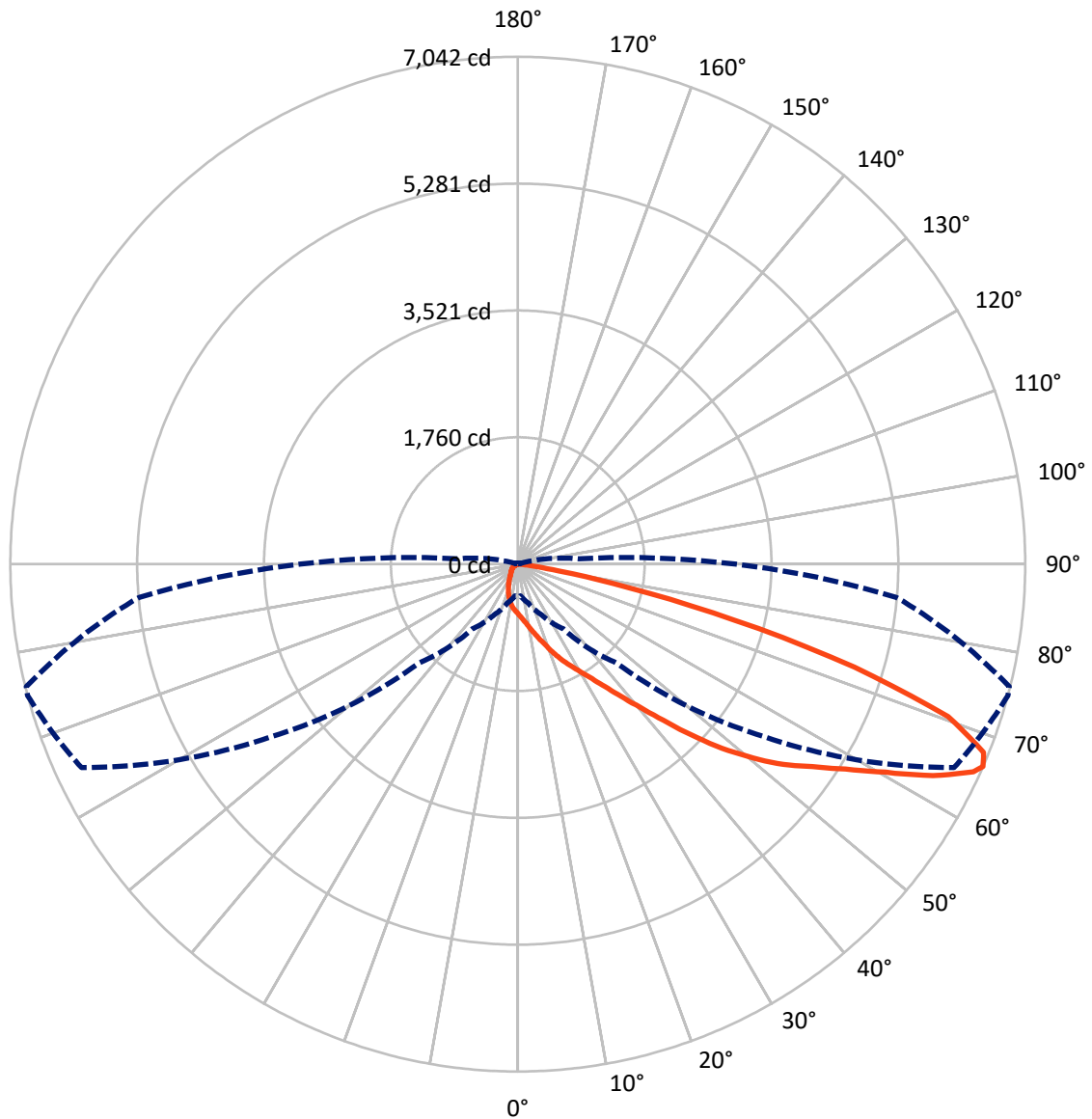
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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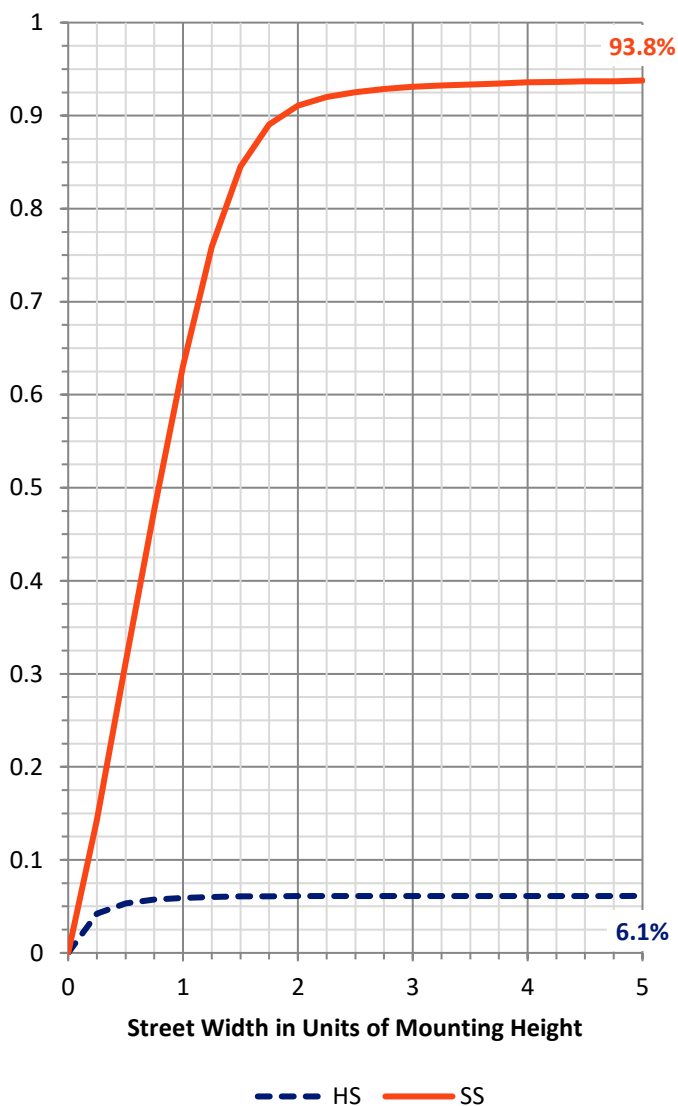
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.2	0.0	388.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5899.8	0.0	5899.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	6288.0	0.0	6288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.1
10°-20°	195.2	3.1
20°-30°	337.1	5.4
30°-40°	608.0	9.7
40°-50°	1098.4	17.5
50°-60°	1712.4	27.2
60°-70°	1626.7	25.9
70°-80°	609.6	9.7
80°-90°	34.4	0.5
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°	6288.0	100.0
0°-180°	6288.0	100.0

Coefficient of Utilization



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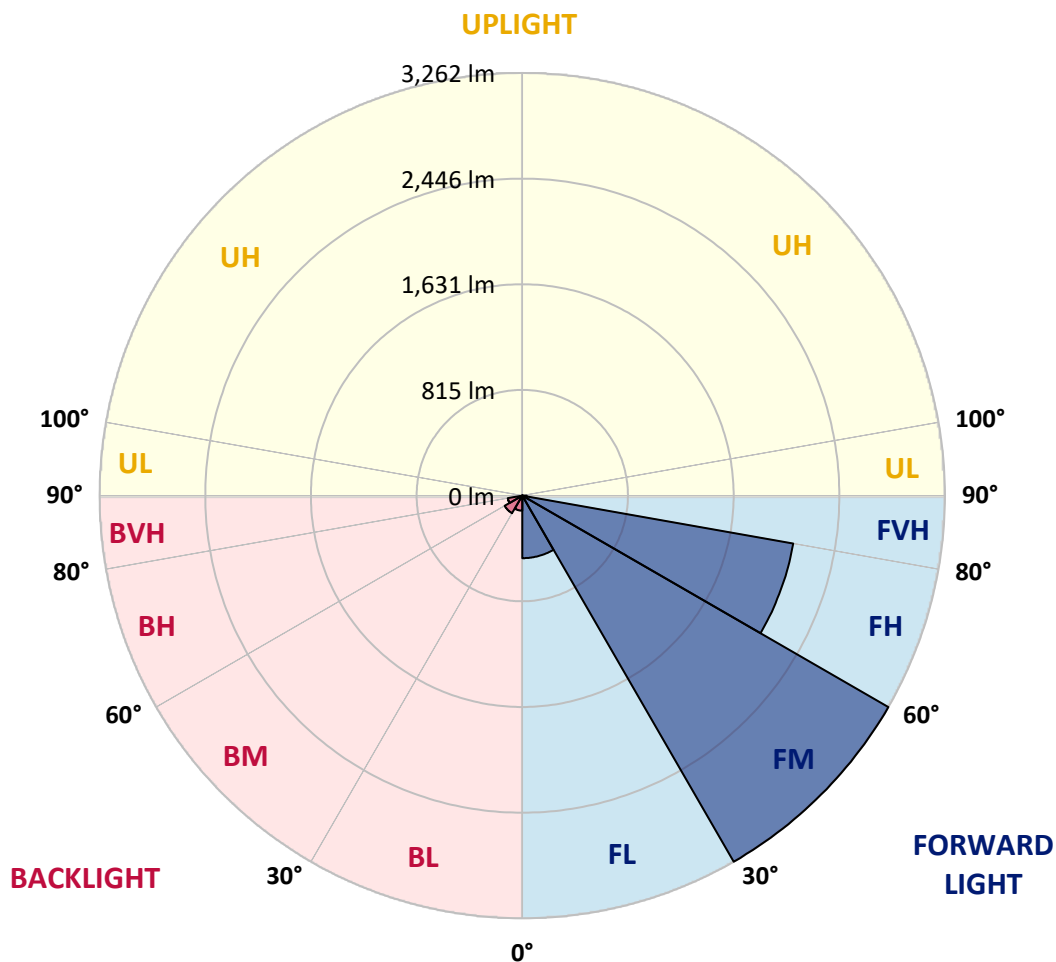
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.7	7.7			
FM (30°-60°)	3261.6	51.9			
FH (60°-80°)	2122.9	33.8			G2/5000
FVH (80°-90°)	32.6	0.5			G1/100
BL (0°-30°)	115.9	1.8	B1/500		
BM (30°-60°)	157.1	2.5	B0/220		
BH (60°-80°)	113.4	1.8	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7
2.5°	821.6	811.3	814.6	809.9	799.2	783.4	769.5	749.5	729.5	726.2	703.9
5°	929.9	927.1	923.4	909.9	902.5	878.3	849.5	815.1	773.7	766.2	725.8
7.5°	1003.8	1002.4	1004.3	997.3	990.8	968.9	938.3	891.3	827.1	823.0	755.5
10°	1028.0	1031.7	1038.7	1049.8	1060.1	1053.1	1029.9	971.3	896.4	884.3	789.5
12.5°	1014.0	1018.2	1035.0	1064.7	1097.7	1116.8	1107.5	1064.7	969.9	960.1	827.6
15°	978.2	983.4	1007.1	1053.1	1112.2	1166.1	1189.3	1158.6	1055.4	1039.6	873.6
17.5°	925.2	932.7	966.6	1027.5	1108.4	1201.4	1267.0	1256.7	1146.6	1131.7	923.8
20°	885.3	890.8	919.7	989.4	1092.6	1220.9	1340.9	1369.7	1259.1	1233.5	982.9
22.5°	911.8	913.6	923.4	965.2	1064.3	1226.1	1406.0	1487.4	1378.6	1355.8	1044.3
25°	1041.5	1022.9	1013.1	1003.8	1058.2	1221.4	1465.0	1610.1	1497.6	1473.4	1105.2
27.5°	1246.1	1237.7	1188.4	1122.4	1109.8	1227.5	1504.1	1726.3	1609.6	1583.6	1164.7
30°	1468.8	1454.4	1424.1	1327.4	1230.2	1270.2	1532.5	1839.3	1742.2	1707.7	1219.1
32.5°	1673.3	1682.6	1637.5	1538.0	1425.5	1361.4	1569.2	1962.5	1894.2	1851.4	1282.3
35°	1911.9	1930.5	1861.2	1765.9	1634.3	1526.0	1640.8	2101.6	2087.1	2033.2	1380.0
37.5°	2154.1	2165.3	2122.9	1989.0	1870.5	1735.2	1775.6	2273.1	2324.7	2278.7	1496.7
40°	2357.7	2373.1	2341.9	2222.9	2096.4	1977.4	1971.4	2460.0	2607.4	2560.0	1670.6
42.5°	2513.5	2525.1	2526.1	2441.9	2328.0	2274.1	2221.0	2698.5	2961.7	2906.8	1872.3
45°	2710.2	2726.9	2717.1	2660.0	2574.9	2565.1	2537.7	2986.8	3385.7	3316.5	2134.1
47.5°	3014.2	3025.4	3001.2	2933.8	2847.3	2862.7	2846.4	3309.9	3818.1	3758.6	2405.2
50°	3225.3	3243.9	3278.3	3305.3	3242.5	3185.8	3137.5	3611.7	4228.7	4175.2	2682.3
52.5°	3223.0	3253.7	3362.5	3498.3	3635.4	3618.2	3479.2	3945.1	4620.6	4554.6	2942.6
55°	3005.9	3065.4	3225.3	3466.2	3846.0	4035.3	3972.0	4331.0	4959.1	4914.5	3244.4
57.5°	2557.7	2593.9	2816.2	3152.8	3728.4	4231.5	4543.0	4854.0	5365.0	5344.1	3713.1
60°	1720.3	1736.6	2022.5	2438.6	3174.2	4035.7	4961.4	5486.8	5864.8	5854.6	4260.3
62.5°	985.7	992.7	1200.0	1551.1	2258.7	3420.1	4996.8	6267.5	6464.1	6469.7	4893.6
65°	530.5	534.2	701.6	910.4	1374.4	2437.7	4493.2	6695.2	6948.6	6959.3	5286.0
66°	458.0	440.3	558.4	776.0	1093.6	1940.2	4174.7	6679.9	7041.6	7030.0	5272.0
67.5°	348.2	364.1	445.9	596.5	810.4	1379.5	3446.6	6382.8	6970.9	6934.7	5057.7
70°	249.2	255.7	317.6	425.4	551.9	756.9	2202.4	5301.3	6335.8	6287.0	4406.3
72.5°	160.9	167.8	225.0	307.8	398.9	413.3	1233.0	3830.2	4884.7	4877.7	3318.3
75°	114.8	121.4	148.8	220.4	299.9	255.7	593.7	2581.4	3105.4	3084.5	2052.7
77.5°	83.2	86.5	99.5	144.1	214.3	183.2	275.2	1378.6	1545.9	1618.9	907.1
80°	47.9	50.7	69.3	87.9	145.1	125.1	131.6	553.3	570.5	543.1	283.6
82.5°	23.7	27.0	41.4	60.0	90.7	84.2	60.4	166.5	175.7	171.1	71.6
85°	5.6	7.0	23.2	39.5	44.2	37.7	29.3	48.8	60.4	59.0	27.4
87.5°	0.5	0.9	8.4	7.0	7.4	12.6	10.2	12.6	19.5	18.1	9.8
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°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7
2.5°	693.7	684.9	659.3	634.2	613.3	591.4	571.4	559.8	555.1	550.0	552.4
5°	703.5	682.1	630.5	585.8	542.1	504.9	475.2	456.1	446.8	445.4	443.1
7.5°	716.5	679.8	599.8	530.0	472.8	431.5	397.5	370.1	361.7	354.3	348.2
10°	732.3	675.6	561.7	471.5	410.5	358.5	313.8	281.3	264.6	259.9	263.2
12.5°	749.0	667.7	521.7	417.5	347.3	280.8	239.4	223.2	218.5	216.7	217.1
15°	765.8	657.9	479.8	365.4	276.6	224.1	205.0	200.9	199.0	198.1	197.1
17.5°	781.1	642.1	432.9	314.8	224.1	191.6	184.6	180.9	177.1	175.7	173.4
20°	799.2	624.0	390.6	258.0	189.7	173.4	165.1	158.1	152.5	148.8	148.3
22.5°	816.4	600.7	346.4	213.9	173.0	155.8	142.3	134.8	128.3	123.7	125.1
25°	825.7	572.3	306.9	186.4	157.6	138.1	123.2	113.9	106.9	104.6	104.1
27.5°	825.7	537.5	268.3	170.6	143.7	122.3	106.9	98.1	93.5	90.2	90.7
30°	819.2	498.9	232.5	158.5	131.6	108.3	93.9	86.0	82.3	80.0	79.5
32.5°	814.1	462.2	201.8	146.9	119.0	96.2	83.7	77.6	73.9	71.6	71.6
35°	822.0	430.5	178.1	135.3	107.4	86.9	75.8	70.2	66.5	64.6	64.2
37.5°	842.9	401.7	159.9	122.7	96.7	79.0	70.2	63.7	60.0	57.7	56.7
40°	894.6	385.4	146.5	111.1	86.5	72.5	63.7	57.7	53.0	50.7	50.2
42.5°	977.3	385.9	133.4	100.4	78.6	67.0	58.1	51.1	46.0	43.7	43.2
45°	1101.9	403.6	123.2	90.2	71.6	60.9	52.1	44.6	40.0	37.7	37.7
47.5°	1251.2	438.0	114.4	81.4	65.1	55.3	46.0	38.6	33.9	32.1	32.1
50°	1413.0	482.6	105.5	72.1	59.5	49.3	39.5	33.5	29.8	28.4	28.4
52.5°	1578.0	536.5	96.7	64.6	53.5	42.8	33.9	29.8	26.5	25.6	25.1
55°	1794.7	605.4	87.4	56.7	47.0	36.7	30.2	26.0	22.3	20.9	20.5
57.5°	2128.1	709.0	77.2	49.7	38.6	30.7	26.0	21.9	17.7	15.3	14.9
60°	2530.2	835.5	66.5	43.7	31.2	25.1	20.9	16.7	13.0	10.2	9.8
62.5°	2906.8	915.9	56.3	36.7	24.6	19.1	14.9	12.6	9.3	6.5	6.0
65°	3073.3	889.0	46.5	29.8	19.5	13.5	9.8	8.8	5.6	2.8	2.3
66°	3018.0	849.0	42.8	27.0	17.7	11.6	8.4	7.4	4.2	1.4	1.4
67.5°	2854.8	754.6	37.2	23.2	15.3	9.3	6.5	5.6	2.3	0.5	0.0
70°	2446.1	610.5	29.3	17.2	11.2	6.5	3.7	2.8	1.4	0.0	0.0
72.5°	1878.8	454.7	23.2	13.0	7.9	3.7	1.9	0.9	1.4	0.0	0.0
75°	1151.2	259.9	18.1	9.8	5.1	2.3	1.4	0.0	1.4	0.5	0.0
77.5°	511.0	116.7	12.1	6.5	3.7	1.9	0.9	0.0	0.9	0.5	0.0
80°	129.3	38.1	7.0	4.6	2.8	1.4	0.5	0.0	0.9	0.9	0.5
82.5°	35.3	13.9	5.1	3.7	2.3	1.4	0.5	0.0	0.9	0.9	0.9
85°	13.9	6.5	4.6	3.7	2.8	1.4	0.5	0.0	0.9	0.9	0.9
87.5°	6.5	4.6	4.6	4.2	3.3	1.4	0.5	0.0	0.9	0.5	0.9
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)