

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: P647290

Luminaire Tested: **GALN-SA2D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647290
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-SA2D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 9106.3 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

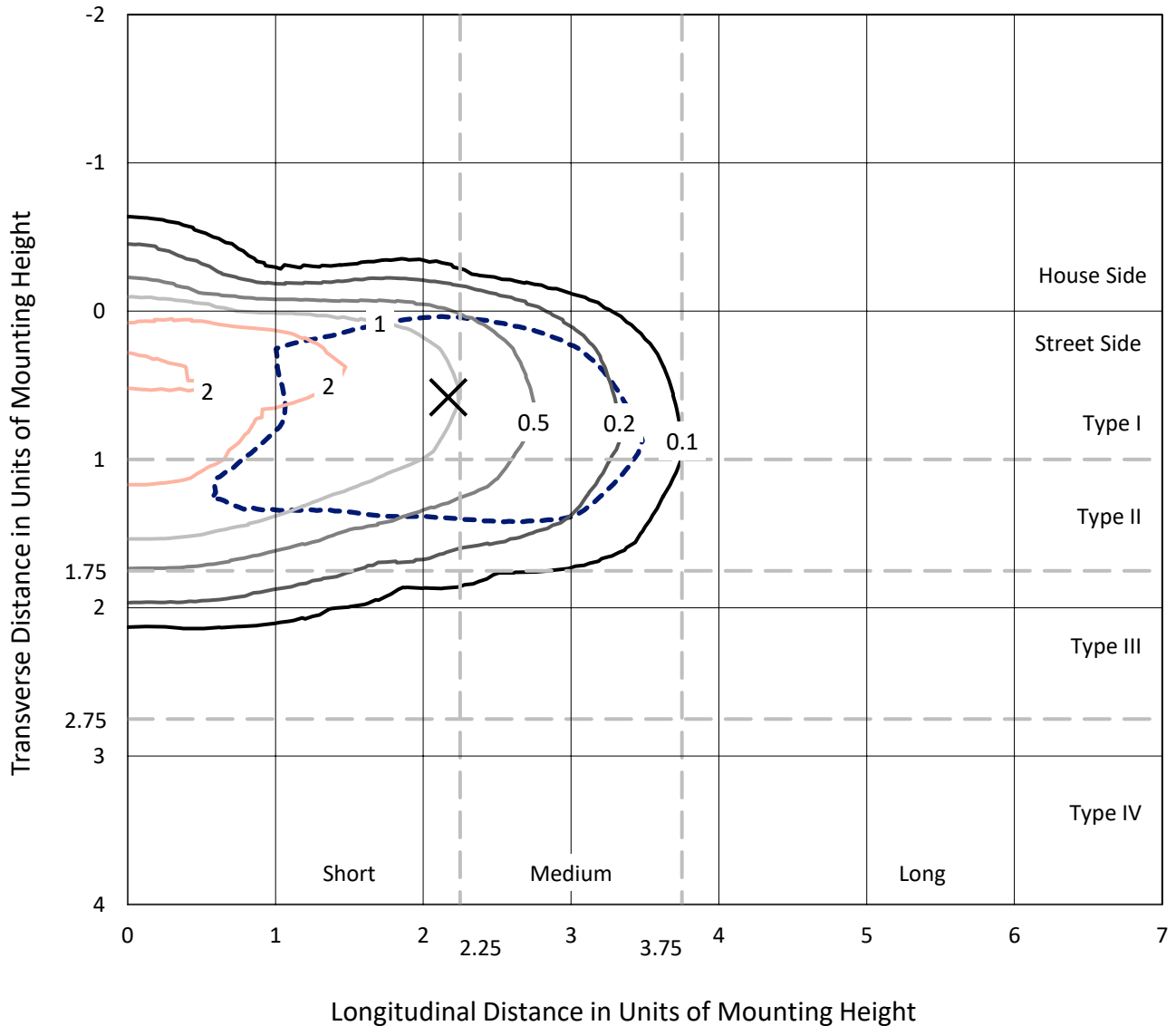
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

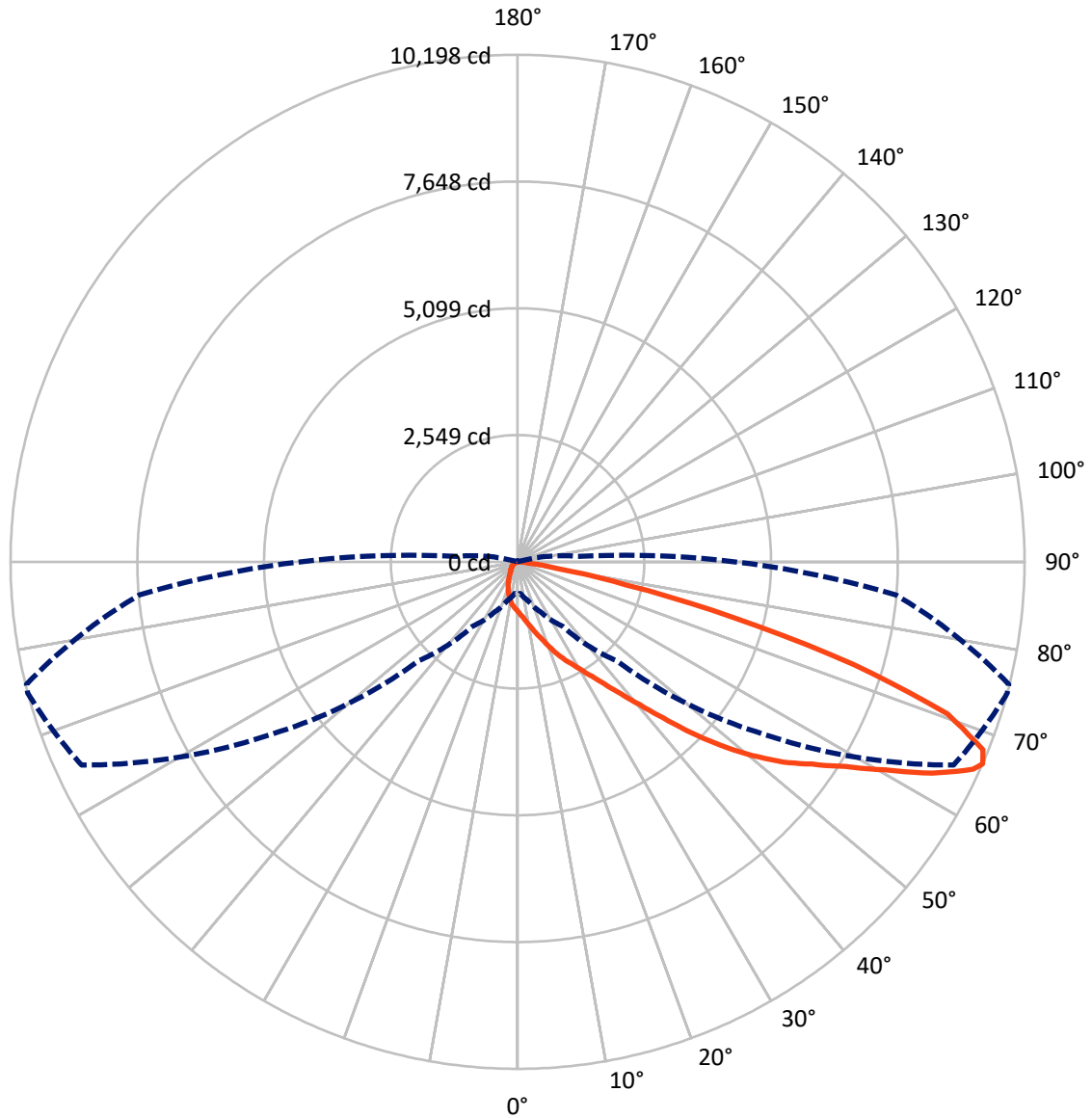
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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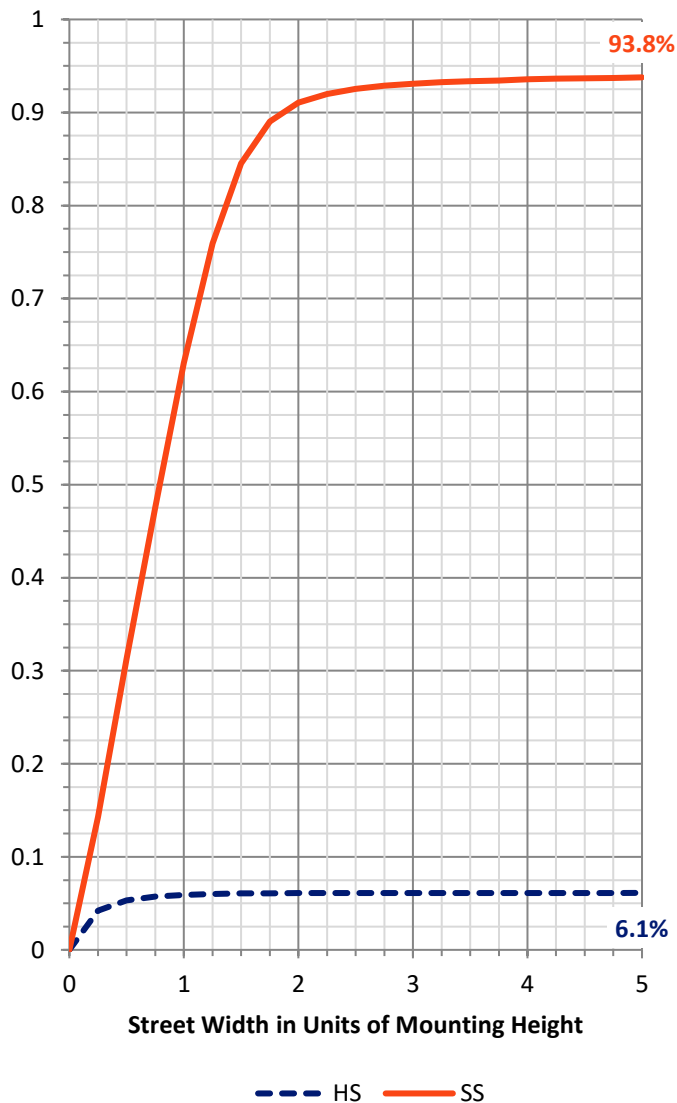
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.2	0.0	562.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8544.1	0.0	8544.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	9106.3	0.0	9106.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.1
10°-20°	282.7	3.1
20°-30°	488.1	5.4
30°-40°	880.5	9.7
40°-50°	1590.6	17.5
50°-60°	2479.8	27.2
60°-70°	2355.7	25.9
70°-80°	882.9	9.7
80°-90°	49.8	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°	9106.3	100.0
0°-180°	9106.3	100.0

Coefficient of Utilization

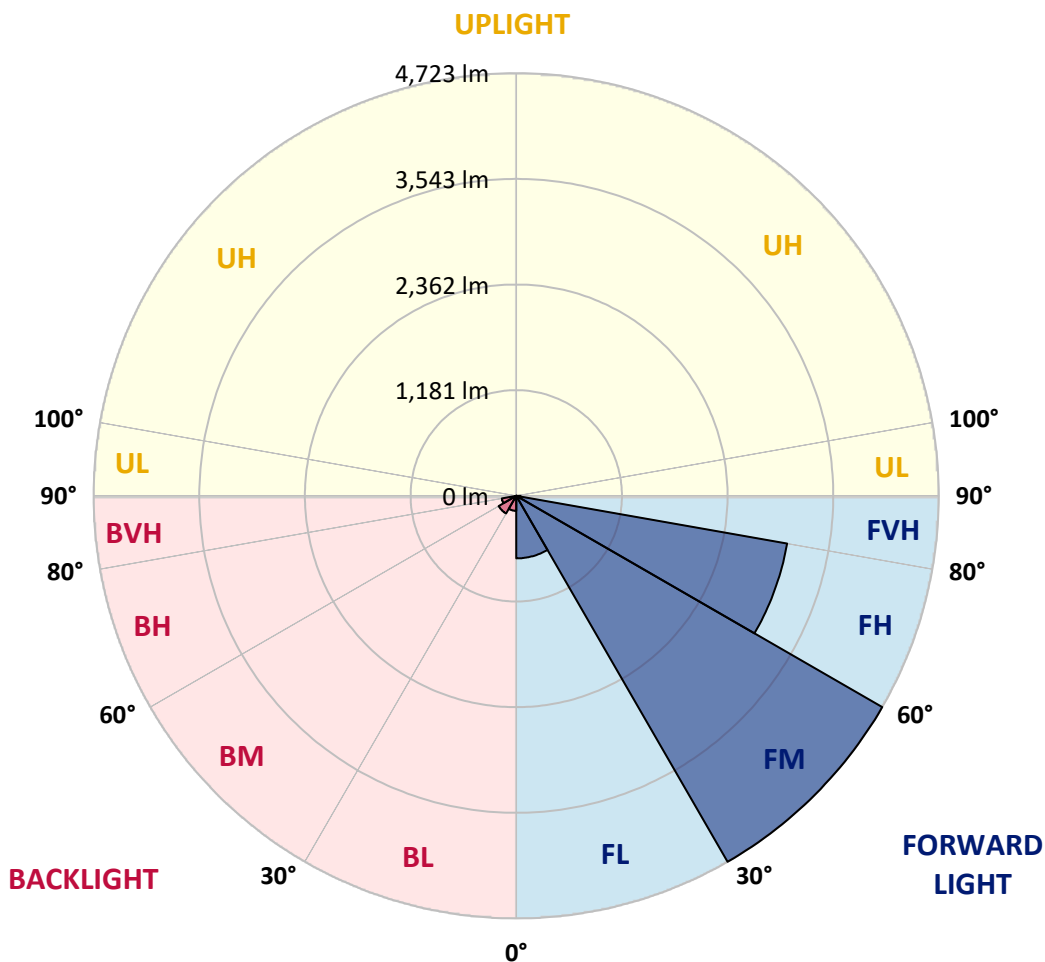


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.0	7.7			
FM (30°-60°)	4723.4	51.9			
FH (60°-80°)	3074.5	33.8			G2/5000
FVH (80°-90°)	47.2	0.5			G1/100
BL (0°-30°)	167.9	1.8	B1/500		
BM (30°-60°)	227.6	2.5	B1/1000		
BH (60°-80°)	164.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9
2.5°	1189.8	1175.0	1179.7	1172.9	1157.4	1134.6	1114.4	1085.4	1056.5	1051.7	1019.5
5°	1346.7	1342.6	1337.2	1317.7	1306.9	1271.9	1230.2	1180.4	1120.4	1109.7	1051.1
7.5°	1453.7	1451.7	1454.4	1444.3	1434.8	1403.2	1358.8	1290.8	1197.8	1191.8	1094.2
10°	1488.7	1494.1	1504.2	1520.4	1535.2	1525.1	1491.5	1406.6	1298.2	1280.7	1143.3
12.5°	1468.5	1474.6	1498.8	1542.0	1589.7	1617.4	1603.9	1542.0	1404.5	1390.5	1198.5
15°	1416.7	1424.1	1458.4	1525.1	1610.6	1688.7	1722.4	1678.0	1528.5	1505.6	1265.2
17.5°	1339.9	1350.7	1399.8	1488.1	1605.2	1739.9	1834.8	1820.0	1660.4	1638.9	1337.9
20°	1282.0	1290.1	1331.9	1432.9	1582.4	1768.2	1941.9	1983.7	1823.4	1786.3	1423.4
22.5°	1320.4	1323.1	1337.2	1397.8	1541.3	1775.6	2036.2	2154.0	1996.4	1963.5	1512.3
25°	1508.3	1481.4	1467.2	1453.7	1532.5	1768.9	2121.7	2331.8	2168.8	2133.8	1600.5
27.5°	1804.5	1792.4	1721.0	1625.4	1607.3	1777.6	2178.2	2500.1	2331.1	2293.4	1686.7
30°	2127.1	2106.2	2062.4	1922.3	1781.6	1839.6	2219.3	2663.7	2523.0	2473.2	1765.5
32.5°	2423.3	2436.8	2371.5	2227.4	2064.5	1971.5	2272.5	2842.1	2743.2	2681.2	1857.0
35°	2768.8	2795.7	2695.4	2557.4	2366.8	2209.9	2376.2	3043.4	3022.6	2944.5	1998.5
37.5°	3119.6	3135.8	3074.4	2880.5	2708.9	2512.9	2571.5	3292.0	3366.7	3300.0	2167.5
40°	3414.5	3436.7	3391.6	3219.2	3036.1	2863.7	2855.0	3562.6	3776.1	3707.3	2419.3
42.5°	3640.1	3656.8	3658.3	3536.3	3371.4	3293.3	3216.5	3908.0	4289.1	4209.7	2711.5
45°	3924.9	3949.1	3935.0	3852.1	3729.0	3714.8	3675.1	4325.5	4903.2	4802.9	3090.6
47.5°	4365.2	4381.4	4346.4	4248.7	4123.5	4145.8	4122.2	4793.4	5529.5	5443.3	3483.2
50°	4670.9	4697.8	4747.7	4786.7	4695.8	4613.7	4543.7	5230.4	6124.0	6046.6	3884.5
52.5°	4667.5	4712.0	4869.6	5066.2	5264.8	5239.9	5038.6	5713.2	6691.6	6596.0	4261.6
55°	4353.1	4439.3	4670.9	5019.7	5569.8	5843.8	5752.3	6272.1	7181.8	7117.2	4698.5
57.5°	3704.0	3756.5	4078.4	4565.9	5399.5	6128.0	6579.2	7029.6	7769.6	7739.3	5377.3
60°	2491.3	2514.9	2929.0	3531.6	4596.8	5844.5	7185.2	7946.0	8493.4	8478.6	6169.8
62.5°	1427.5	1437.6	1737.9	2246.3	3271.1	4953.0	7236.3	9076.5	9361.4	9369.5	7086.9
65°	768.3	773.7	1016.1	1318.4	1990.4	3530.3	6507.1	9696.0	10063.0	10078.5	7655.2
66°	663.2	637.7	808.7	1123.8	1583.7	2809.8	6045.9	9673.8	10197.6	10180.8	7635.0
67.5°	504.3	527.2	645.7	863.9	1173.6	1997.8	4991.5	9243.5	10095.3	10042.8	7324.6
70°	360.9	370.4	459.9	616.1	799.3	1096.2	3189.6	7677.4	9175.5	9104.8	6381.2
72.5°	232.9	243.0	325.9	445.8	577.7	598.6	1785.7	5546.9	7074.1	7064.0	4805.6
75°	166.3	175.7	215.5	319.2	434.3	370.4	859.8	3738.4	4497.2	4466.9	2972.7
77.5°	120.5	125.2	144.1	208.7	310.4	265.3	398.6	1996.4	2238.8	2344.5	1313.6
80°	69.4	73.4	100.3	127.2	210.1	181.1	190.6	801.2	826.1	786.4	410.8
82.5°	34.4	39.1	59.9	86.8	131.3	121.8	87.5	241.1	254.6	247.8	103.7
85°	8.1	10.1	33.7	57.2	64.0	54.6	42.4	70.7	87.5	85.5	39.7
87.5°	0.7	1.3	12.1	10.1	10.8	18.2	14.8	18.2	28.3	26.2	14.2
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°	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9
2.5°	1004.6	991.8	954.8	918.5	888.2	856.4	827.6	810.7	804.0	796.5	799.9
5°	1018.8	987.8	913.1	848.4	785.1	731.2	688.2	660.5	647.1	645.0	641.7
7.5°	1037.6	984.4	868.6	767.6	684.8	624.8	575.7	536.0	523.8	513.1	504.3
10°	1060.5	978.4	813.4	682.8	594.5	519.1	454.5	407.4	383.1	376.4	381.1
12.5°	1084.8	966.9	755.5	604.6	503.0	406.7	346.8	323.2	316.5	313.7	314.5
15°	1109.0	952.8	694.9	529.2	400.7	324.6	296.9	290.9	288.2	286.8	285.5
17.5°	1131.2	929.9	626.9	455.9	324.6	277.4	267.3	261.9	256.5	254.6	251.2
20°	1157.4	903.6	565.6	373.7	274.8	251.2	239.0	228.9	220.9	215.5	214.8
22.5°	1182.4	869.9	501.7	309.8	250.5	225.6	206.0	195.3	185.8	179.1	181.1
25°	1195.9	828.9	444.4	270.0	228.2	200.0	178.4	165.0	154.9	151.5	150.8
27.5°	1195.9	778.4	388.5	247.1	208.0	177.1	154.9	142.0	135.3	130.6	131.3
30°	1186.4	722.5	336.7	229.6	190.6	156.9	136.0	124.6	119.2	115.8	115.2
32.5°	1179.0	669.3	292.2	212.7	172.3	139.4	121.2	112.4	107.0	103.7	103.7
35°	1190.5	623.5	257.9	195.9	155.5	125.9	109.8	101.7	96.3	93.6	92.9
37.5°	1220.8	581.8	231.6	177.7	140.1	114.5	101.7	92.2	86.8	83.5	82.1
40°	1295.5	558.2	212.1	160.9	125.2	105.1	92.2	83.5	76.7	73.4	72.7
42.5°	1415.4	558.9	193.2	145.4	113.8	96.9	84.2	74.1	66.6	63.3	62.6
45°	1595.8	584.4	178.4	130.6	103.7	88.2	75.4	64.7	57.9	54.6	54.6
47.5°	1811.9	634.3	165.6	117.8	94.3	80.1	66.6	55.9	49.2	46.4	46.4
50°	2046.3	698.9	152.8	104.4	86.2	71.4	57.2	48.5	43.1	41.1	41.1
52.5°	2285.3	777.0	140.1	93.6	77.4	61.9	49.2	43.1	38.4	37.0	36.3
55°	2599.1	876.6	126.6	82.1	68.0	53.2	43.8	37.7	32.3	30.3	29.6
57.5°	3081.9	1026.8	111.8	72.0	55.9	44.5	37.7	31.6	25.6	22.2	21.5
60°	3664.3	1210.0	96.3	63.3	45.1	36.3	30.3	24.3	18.9	14.8	14.2
62.5°	4209.7	1326.5	81.5	53.2	35.7	27.6	21.5	18.2	13.5	9.4	8.8
65°	4450.7	1287.4	67.3	43.1	28.3	19.5	14.2	12.8	8.1	4.1	3.4
66°	4370.6	1229.5	61.9	39.1	25.6	16.8	12.1	10.8	6.0	2.0	2.0
67.5°	4134.2	1092.8	53.9	33.7	22.2	13.5	9.4	8.1	3.4	0.7	0.0
70°	3542.4	884.1	42.4	24.9	16.1	9.4	5.4	4.1	2.0	0.0	0.0
72.5°	2720.9	658.5	33.7	18.9	11.4	5.4	2.7	1.3	2.0	0.0	0.0
75°	1667.2	376.4	26.2	14.2	7.4	3.4	2.0	0.0	2.0	0.7	0.0
77.5°	740.0	169.0	17.5	9.4	5.4	2.7	1.3	0.0	1.3	0.7	0.0
80°	187.2	55.2	10.1	6.7	4.1	2.0	0.7	0.0	1.3	1.3	0.7
82.5°	51.2	20.2	7.4	5.4	3.4	2.0	0.7	0.0	1.3	1.3	1.3
85°	20.2	9.4	6.7	5.4	4.1	2.0	0.7	0.0	1.3	1.3	1.3
87.5°	9.4	6.7	6.7	6.0	4.7	2.0	0.7	0.0	1.3	0.7	1.3
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)