

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: P450484

Luminaire Tested: **GALN-SA1B-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5814 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

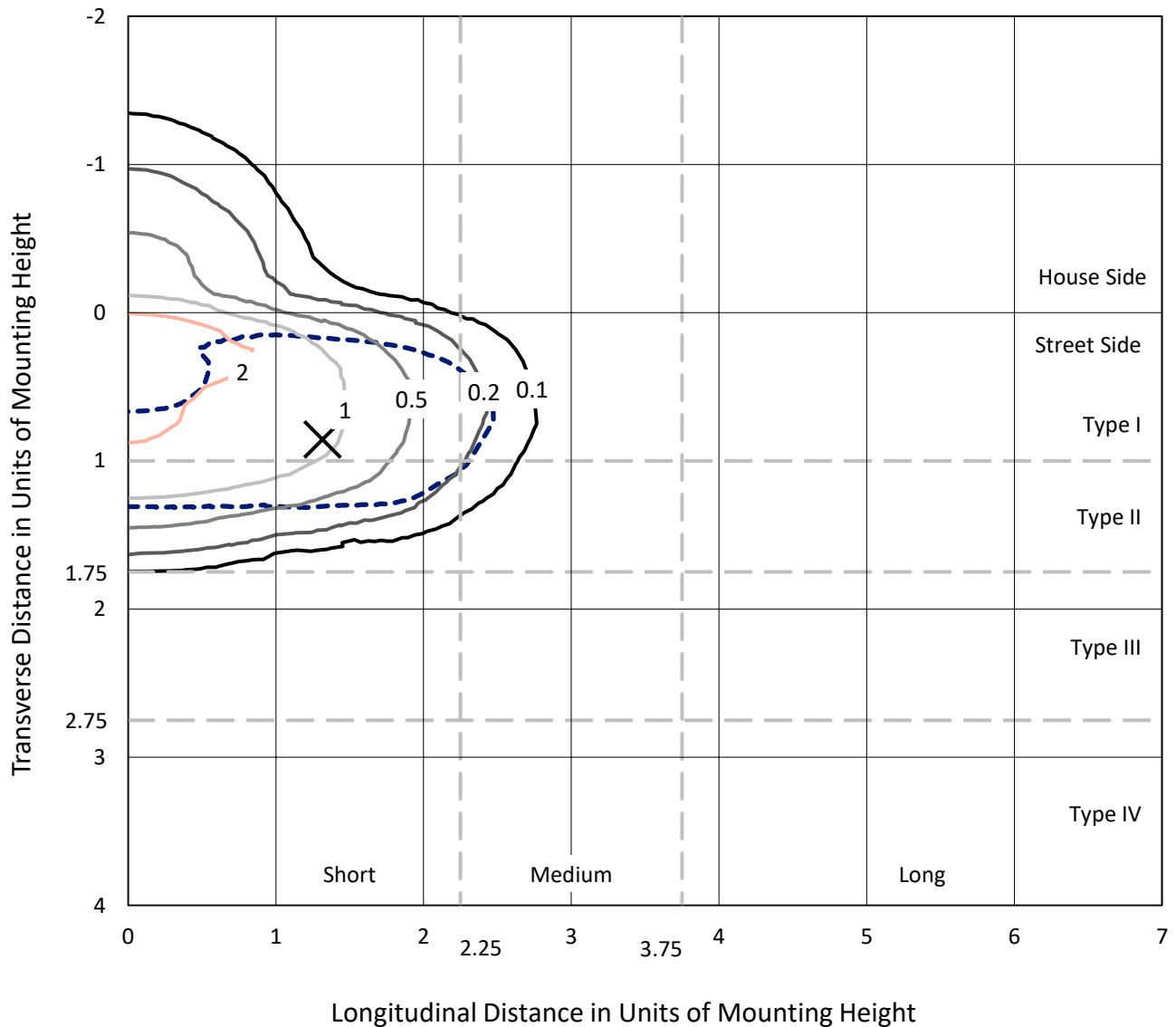
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

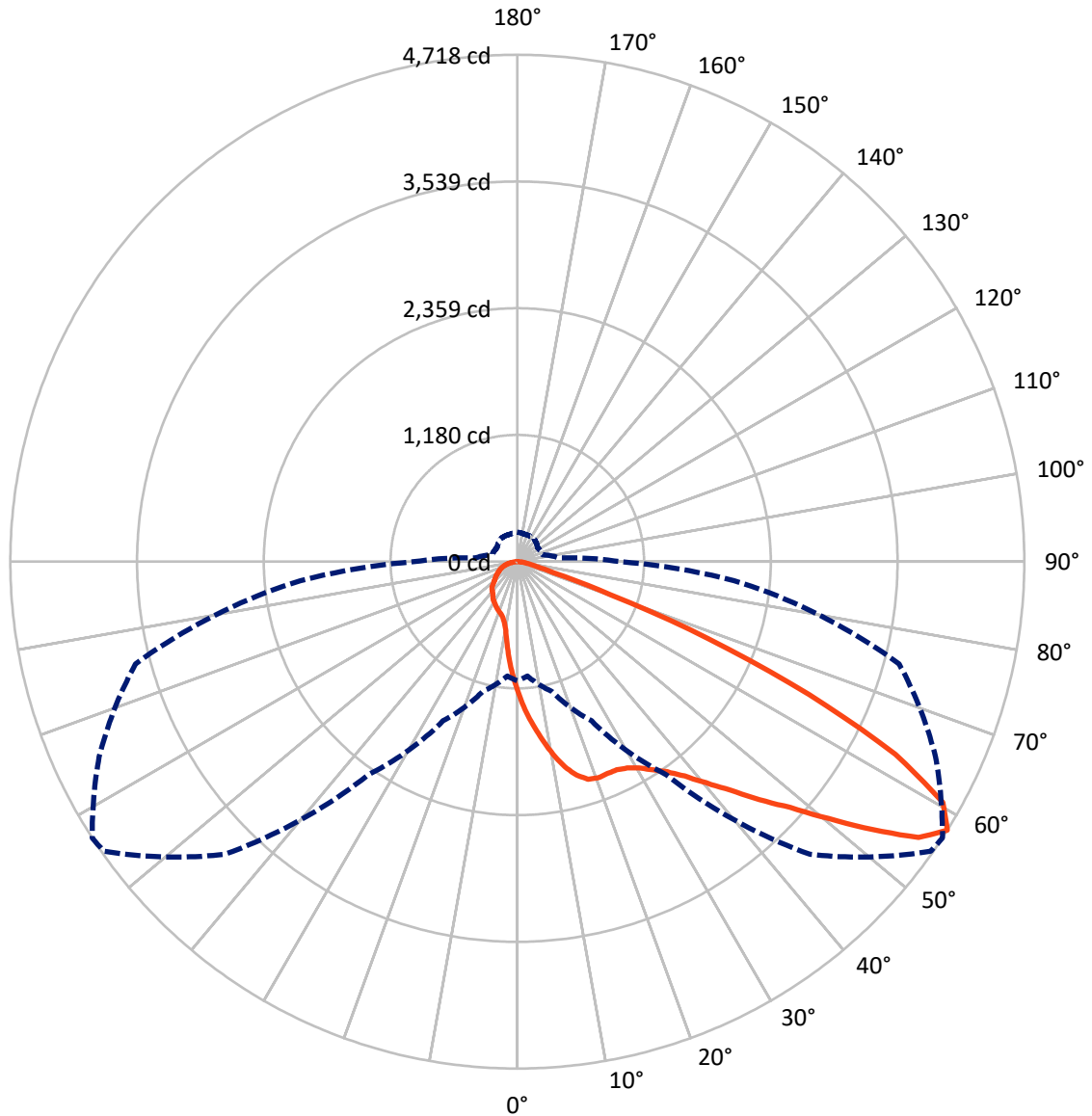
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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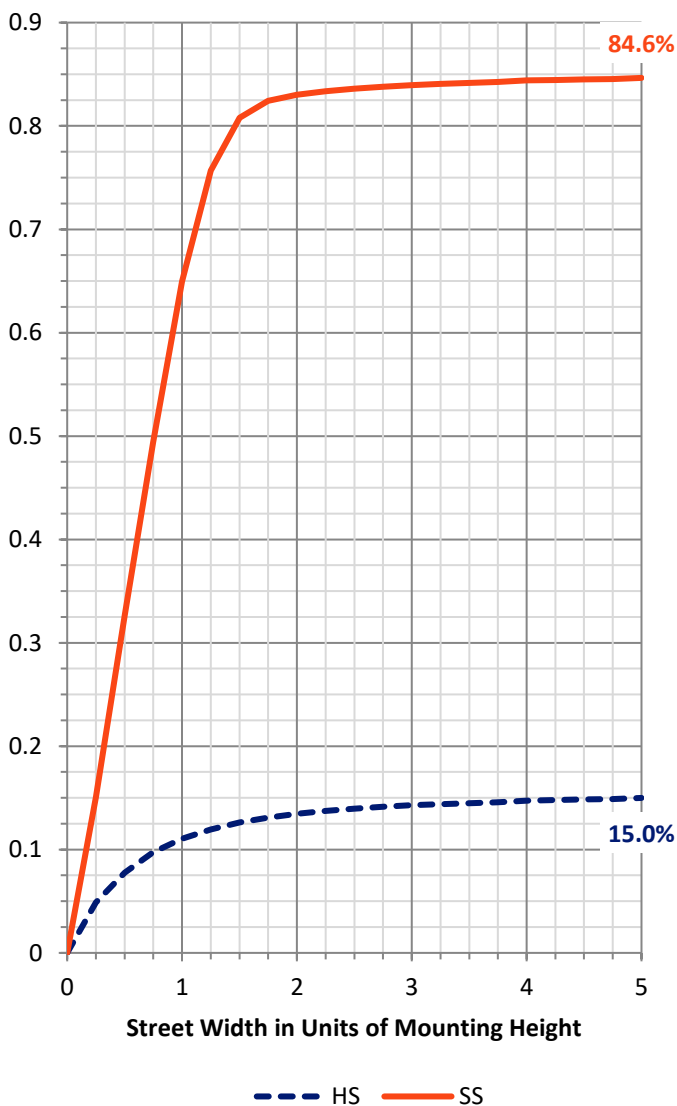
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.2	0.0	884.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4929.8	0.0	4929.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	5814.0	0.0	5814.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	2.0
10°-20°	346.0	6.0
20°-30°	574.5	9.9
30°-40°	865.3	14.9
40°-50°	1299.2	22.3
50°-60°	1456.3	25.0
60°-70°	852.3	14.7
70°-80°	252.1	4.3
80°-90°	51.0	0.9
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°	5814.0	100.0
0°-180°	5814.0	100.0



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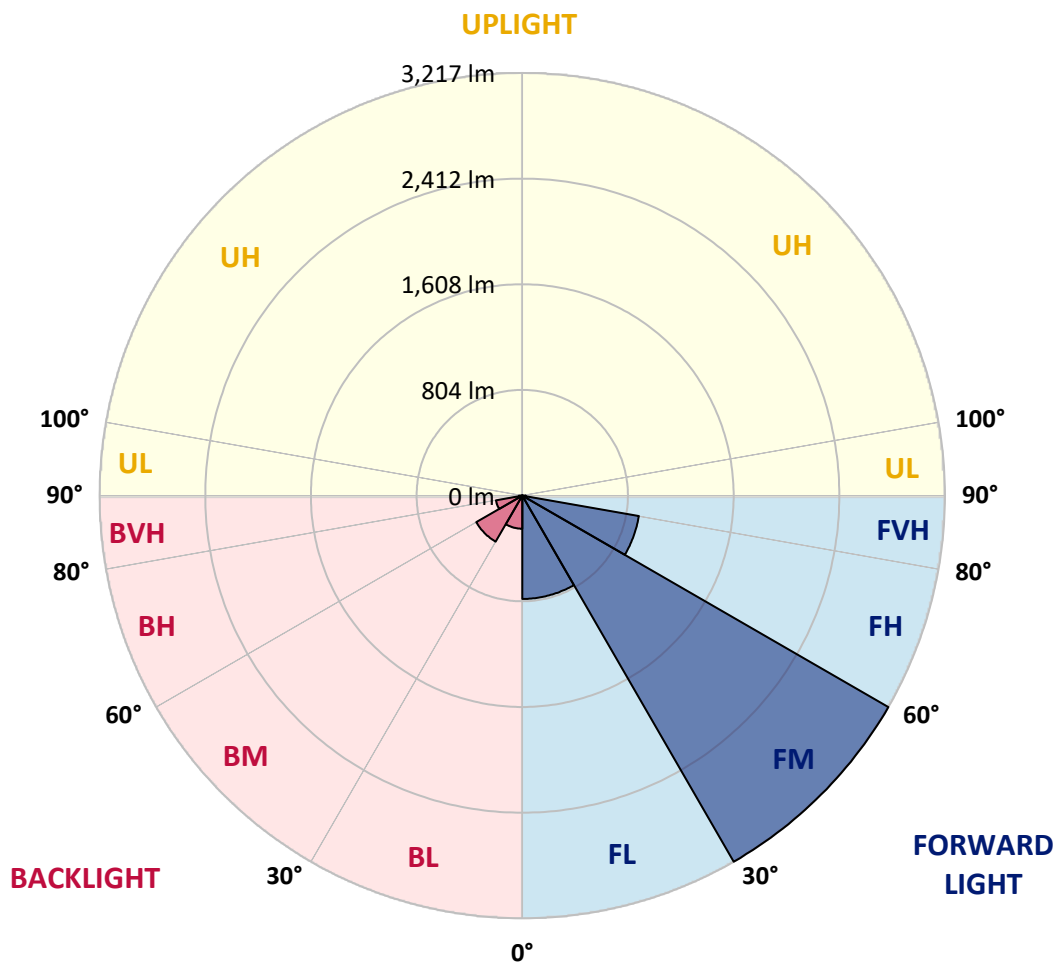
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	785.9	13.5			
FM	(30°-60°)	3216.6	55.3			
FH	(60°-80°)	900.9	15.5			G1/1800
FVH	(80°-90°)	26.4	0.5			G1/100
BL	(0°-30°)	251.9	4.3	B1/500		
BM	(30°-60°)	404.3	7.0	B1/1000		
BH	(60°-80°)	203.4	3.5	B1/500		G1/500
BVH	(80°-90°)	24.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1517.7	1501.2	1488.2	1476.7	1461.7	1421.3	1380.9	1380.3	1348.1	1298.5	1247.6
5°	1765.0	1742.8	1745.6	1710.0	1674.3	1615.8	1530.2	1525.7	1457.3	1364.4	1269.8
7.5°	1926.1	1926.4	1917.5	1897.1	1858.6	1792.1	1695.0	1673.1	1577.9	1436.9	1295.3
10°	1917.8	1926.4	1941.3	1958.8	1970.6	1937.8	1849.4	1822.6	1698.8	1524.7	1323.6
12.5°	1807.7	1821.0	1842.4	1886.3	1957.3	2011.4	1981.1	1959.5	1838.9	1612.3	1354.8
15°	1738.9	1746.9	1758.7	1788.3	1864.6	1994.2	2072.5	2061.0	1970.9	1711.2	1389.8
17.5°	1717.9	1725.9	1729.7	1747.8	1802.3	1935.0	2108.4	2128.8	2088.1	1802.3	1425.1
20°	1738.9	1742.8	1742.8	1753.6	1796.2	1900.3	2106.8	2147.9	2184.2	1911.4	1458.2
22.5°	1794.0	1795.6	1793.4	1797.2	1829.0	1909.8	2091.9	2142.8	2261.8	2004.0	1484.0
25°	1883.4	1886.0	1871.3	1862.4	1885.6	1951.8	2100.2	2146.9	2322.6	2092.5	1501.2
27.5°	1984.9	1988.1	1970.3	1949.6	1960.4	2003.7	2132.6	2174.6	2368.1	2179.7	1512.0
30°	2109.4	2110.7	2080.7	2055.9	2048.9	2081.1	2188.0	2227.1	2424.8	2282.5	1528.3
32.5°	2236.7	2246.2	2207.7	2172.7	2160.9	2170.8	2269.8	2307.7	2492.2	2392.9	1554.3
35°	2409.8	2411.4	2365.3	2322.6	2283.8	2296.5	2374.5	2401.9	2585.5	2520.6	1591.3
37.5°	2625.9	2640.5	2576.9	2497.3	2449.6	2431.1	2501.2	2531.1	2716.3	2677.1	1647.0
40°	2865.9	2871.3	2816.9	2767.2	2680.0	2626.5	2674.9	2707.4	2877.6	2864.0	1711.6
42.5°	3016.7	3028.5	3032.6	3027.5	2962.0	2872.2	2890.7	2906.0	3068.6	3039.3	1777.8
45°	3067.6	3085.1	3144.3	3269.7	3276.7	3188.3	3145.3	3159.9	3276.7	3216.3	1841.1
47.5°	2983.3	3013.2	3122.4	3379.5	3572.1	3578.8	3449.2	3417.1	3466.4	3363.0	1886.9
50°	2765.3	2771.7	2938.7	3311.1	3710.5	3952.1	3818.1	3758.2	3646.5	3471.5	1918.4
52.5°	2428.0	2435.3	2575.3	2993.2	3625.2	4213.0	4249.6	4142.7	3829.5	3555.8	1939.1
55°	1802.3	1844.6	1998.6	2402.5	3221.0	4188.5	4592.7	4531.9	4050.7	3622.7	1971.6
57.5°	1108.2	1069.3	1252.0	1634.5	2422.5	3851.8	4698.7	4718.4	4294.2	3678.7	2026.0
60°	509.8	517.5	592.9	843.1	1476.7	3013.2	4425.6	4550.4	4428.8	3676.8	2039.7
62.5°	351.4	344.3	325.3	370.1	673.4	1905.7	3738.2	3949.5	4158.9	3562.5	1985.3
65°	314.1	307.1	270.2	257.8	309.3	830.6	2717.6	2984.3	3501.7	3274.2	1849.7
67.5°	293.4	283.9	245.7	221.5	220.9	330.7	1602.4	1923.5	2597.3	2768.2	1602.7
70°	271.8	264.1	226.3	199.5	188.1	207.8	704.3	922.0	1686.4	1994.8	1248.5
72.5°	250.1	241.2	207.2	178.5	163.6	155.6	269.9	351.0	952.8	1196.0	765.4
75°	218.6	214.2	185.2	161.7	145.4	125.7	171.2	195.4	455.7	549.3	384.1
77.5°	191.3	186.5	164.5	141.3	129.5	102.2	121.6	132.7	192.2	222.8	173.4
80°	140.0	144.8	138.8	124.8	115.5	80.2	81.8	91.0	114.3	126.3	106.0
82.5°	88.8	97.7	106.9	96.1	87.5	63.3	56.6	60.1	78.0	82.7	47.1
85°	37.2	37.9	62.1	58.6	50.0	37.6	34.1	36.0	41.7	43.6	22.0
87.5°	14.3	14.0	22.0	20.4	15.6	10.8	10.8	12.1	16.5	15.3	7.0
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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1225.6	1203.0	1158.1	1102.4	1061.7	1015.9	975.4	946.5	935.7	930.6	921.0
5°	1224.6	1180.1	1087.2	989.8	911.5	831.3	763.5	719.6	715.8	686.5	683.6
7.5°	1225.0	1156.8	1008.9	865.6	746.3	664.2	608.2	593.5	576.0	571.6	573.8
10°	1225.9	1127.3	924.8	742.8	627.3	573.5	552.5	546.8	547.4	549.3	549.6
12.5°	1227.2	1098.6	837.6	649.6	560.4	538.2	535.9	541.0	546.4	550.6	551.5
15°	1228.8	1065.8	752.7	574.4	527.0	525.1	532.4	541.0	548.7	554.7	555.7
17.5°	1226.9	1027.6	681.4	528.3	508.6	517.8	529.9	540.7	547.7	553.4	554.1
20°	1222.4	985.0	612.6	495.8	497.1	512.1	525.1	535.3	542.9	545.8	548.0
22.5°	1205.2	934.1	552.8	470.7	483.4	504.1	519.7	525.8	517.2	511.1	512.7
25°	1175.9	867.9	497.1	450.3	471.0	493.0	508.9	494.2	487.2	484.7	486.0
27.5°	1139.3	795.3	455.1	429.0	455.1	480.6	476.1	473.6	470.4	466.2	467.2
30°	1099.9	724.3	419.5	412.5	437.9	452.6	454.5	458.6	455.1	448.7	451.3
32.5°	1063.3	657.5	392.4	398.5	425.8	423.6	437.9	442.7	426.5	405.1	406.1
35°	1032.1	595.5	372.0	384.8	405.1	406.1	420.4	403.9	386.4	376.2	376.8
37.5°	1008.5	547.1	358.7	373.0	378.7	390.8	383.2	374.6	372.4	365.4	365.7
40°	994.5	504.7	350.1	363.8	362.8	371.1	346.6	355.2	358.4	356.1	356.4
42.5°	980.5	474.8	341.2	351.0	350.7	334.5	329.1	336.4	344.7	345.6	345.0
45°	969.4	451.6	331.9	331.6	338.0	312.5	310.9	315.4	327.2	332.9	332.6
47.5°	957.0	432.2	317.9	309.0	310.9	298.8	296.3	298.2	312.5	321.8	324.3
50°	941.4	412.8	300.4	288.3	280.4	286.1	286.7	287.1	301.4	311.9	314.1
52.5°	929.0	398.1	280.4	271.5	261.9	274.7	279.4	280.1	288.7	297.2	298.8
55°	936.3	389.9	260.6	254.3	245.7	262.9	272.1	273.4	275.3	281.7	282.6
57.5°	958.3	391.8	244.7	236.5	230.1	248.9	264.5	265.4	264.1	271.8	273.1
60°	964.9	390.8	233.0	216.7	212.9	233.9	253.3	255.2	254.9	266.1	268.3
62.5°	936.9	378.7	221.2	200.2	197.6	218.6	237.7	245.4	247.0	262.9	265.7
65°	871.1	353.9	205.6	182.7	182.7	202.4	222.8	233.3	237.7	259.1	262.2
67.5°	784.2	324.6	189.7	167.7	167.1	186.8	206.9	217.7	224.7	253.6	255.6
70°	650.8	285.2	169.9	151.5	151.5	169.3	187.5	200.5	210.7	243.5	243.5
72.5°	445.9	237.1	146.1	133.0	133.3	149.9	168.4	183.0	195.1	223.1	223.7
75°	282.0	185.2	120.0	113.3	114.6	130.2	149.3	164.5	188.7	220.5	221.5
77.5°	149.9	130.2	95.5	93.9	95.5	109.8	131.1	152.1	189.4	191.3	188.1
80°	97.1	92.3	75.4	72.2	72.9	88.5	116.8	144.5	152.1	154.0	147.0
82.5°	52.8	58.6	53.5	50.3	50.3	69.1	99.6	114.9	109.2	90.7	86.6
85°	22.6	27.4	27.7	24.2	23.2	42.6	66.8	62.7	58.2	55.7	55.1
87.5°	6.4	8.9	8.9	6.7	5.1	11.8	13.4	3.8	0.0	0.3	0.6
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)