

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: P945201

Luminaire Tested: **GALN-SB1B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4740 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

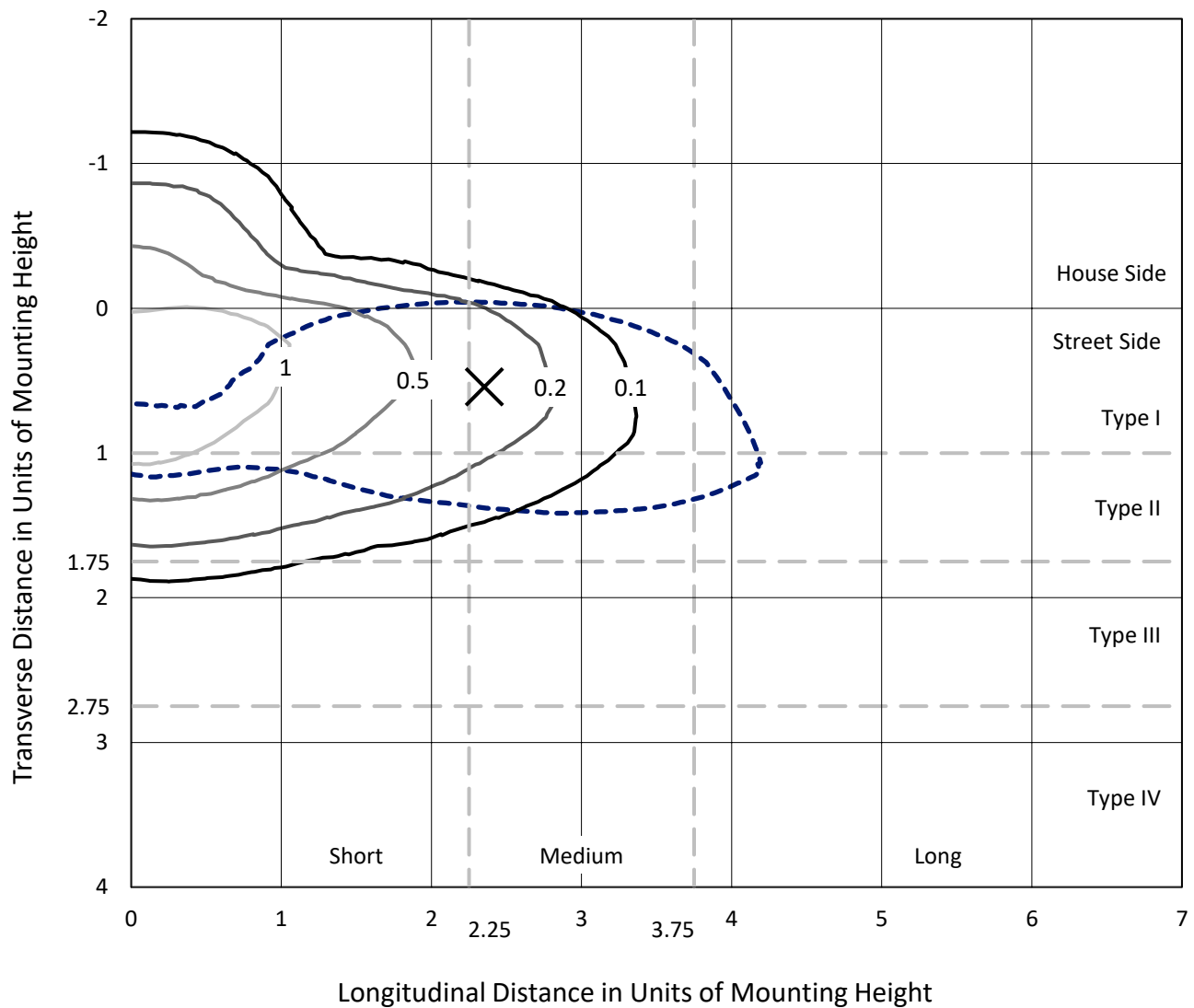


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

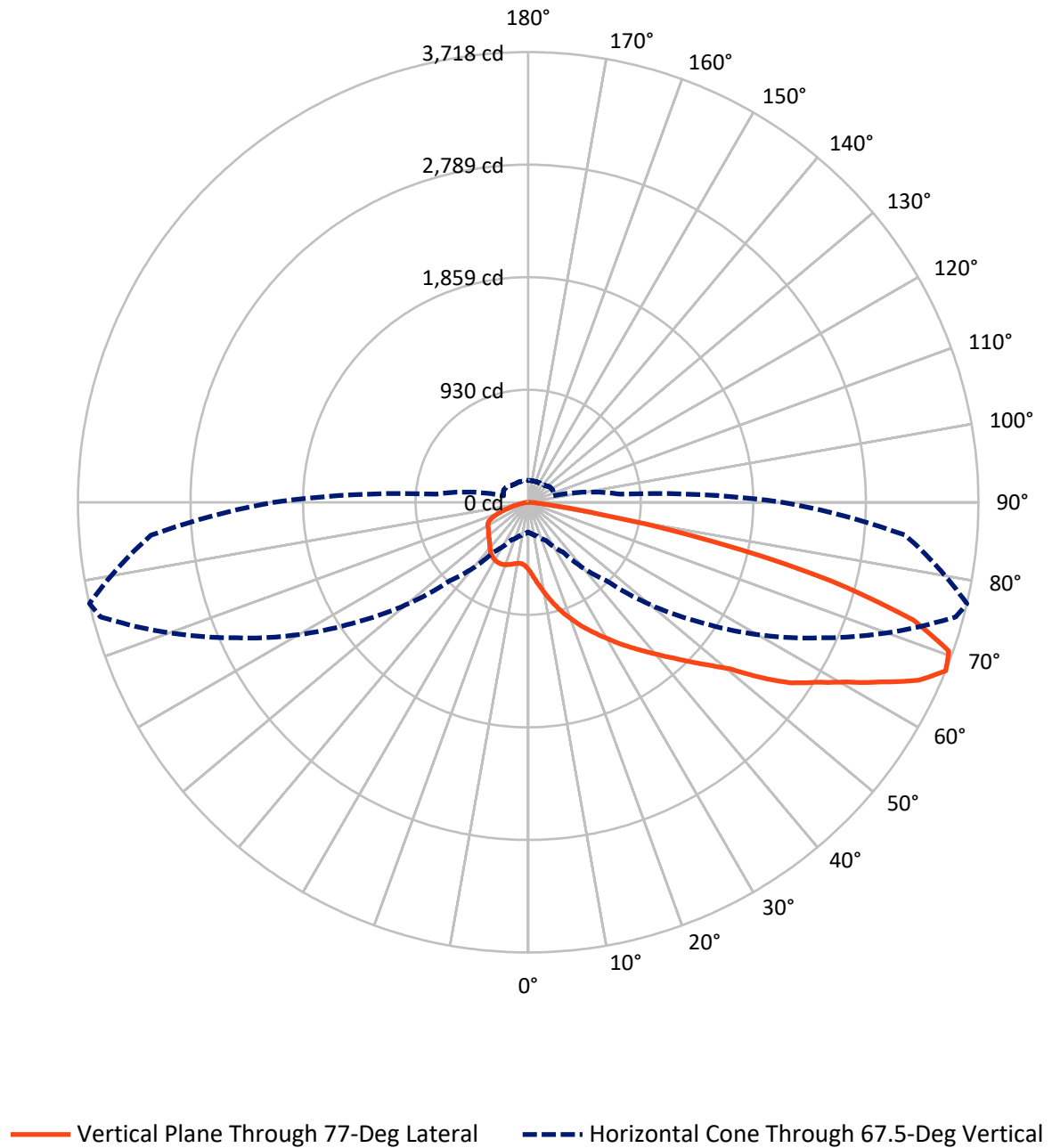


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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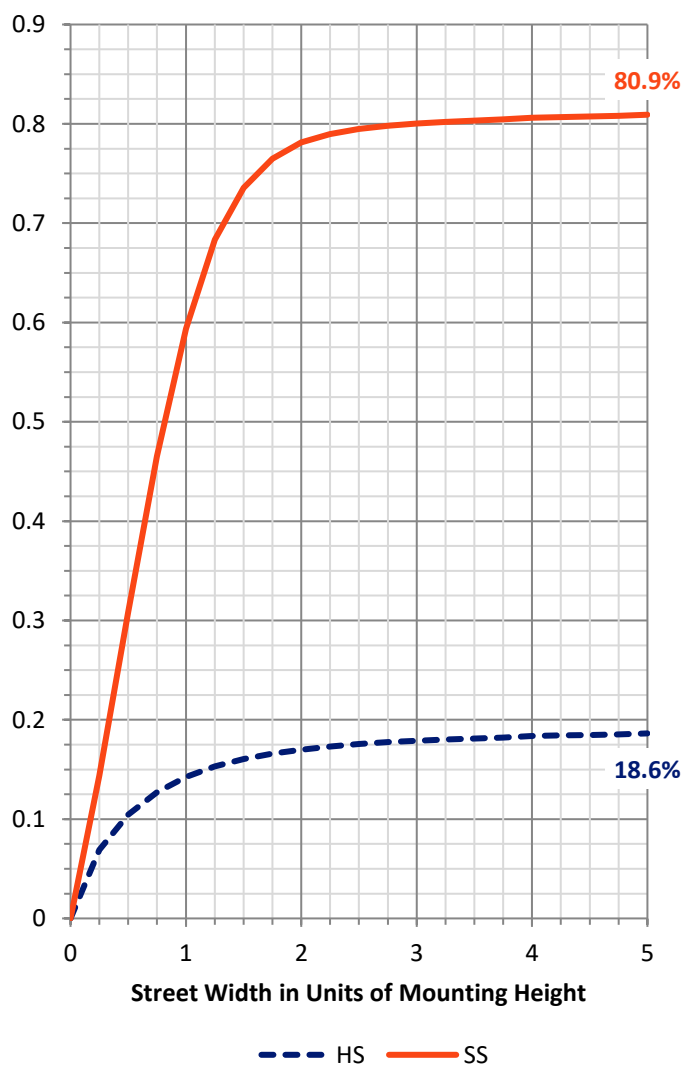
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.6	0.0	896.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3843.4	0.0	3843.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	4740.0	0.0	4740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.3
10°-20°	214.2	4.5
20°-30°	404.4	8.5
30°-40°	651.4	13.7
40°-50°	891.0	18.8
50°-60°	1005.1	21.2
60°-70°	938.1	19.8
70°-80°	514.2	10.8
80°-90°	62.0	1.3
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°	4740.0	100.0
0°-180°	4740.0	100.0

Coefficient of Utilization



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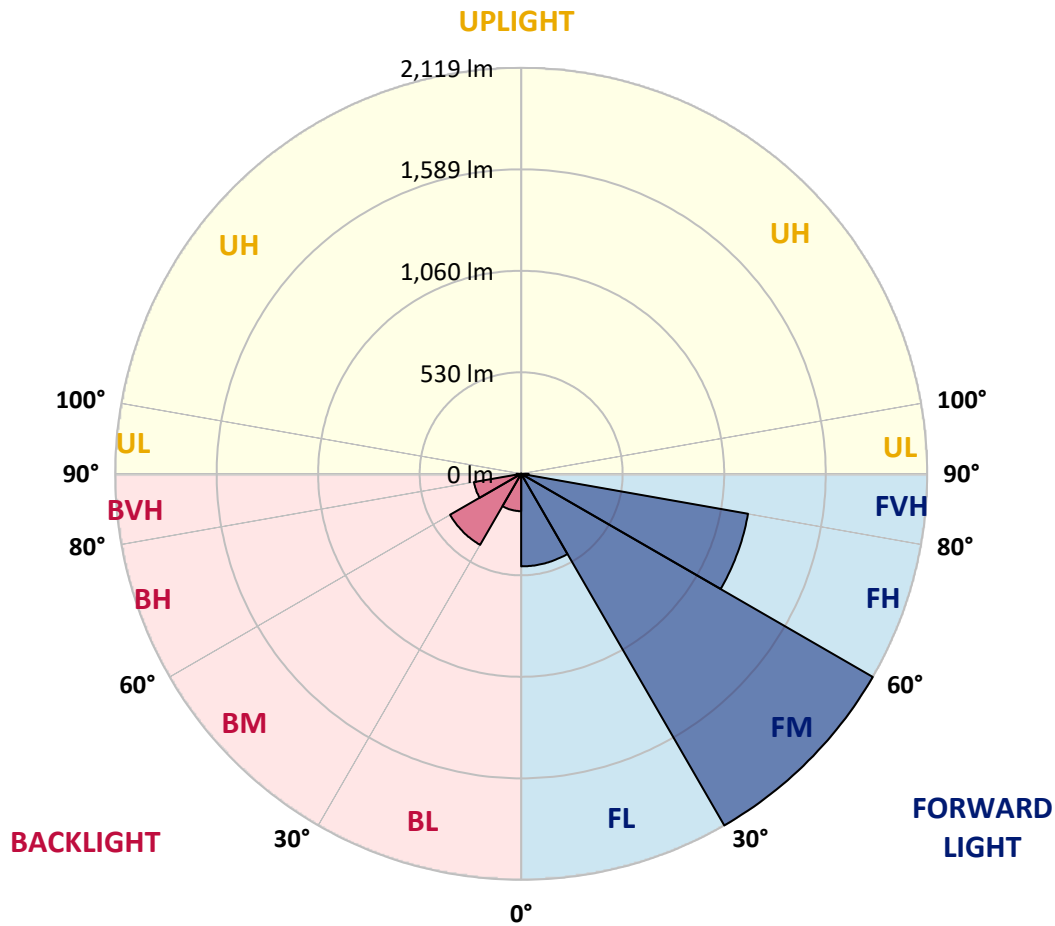
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.2	10.2			
FM	(30°-60°)	2119.2	44.7			
FH	(60°-80°)	1202.2	25.4			G1/1800
FVH	(80°-90°)	38.8	0.8			G1/100
BL	(0°-30°)	194.9	4.1	B1/500		
BM	(30°-60°)	428.3	9.0	B1/1000		
BH	(60°-80°)	250.1	5.3	B1/500		G1/500
BVH	(80°-90°)	23.2	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	696.3	701.2	695.1	695.1	674.6	663.8	643.3	627.6	599.5	594.6	576.0
5°	823.1	829.2	820.6	817.0	792.8	770.5	736.0	702.0	651.8	646.7	602.9
7.5°	921.2	929.0	921.5	917.5	896.0	871.0	830.7	783.2	712.5	702.5	639.1
10°	1001.2	1002.4	1000.0	1001.5	984.6	964.0	922.7	867.4	779.0	765.3	682.9
12.5°	1046.5	1052.1	1057.0	1065.8	1062.9	1050.2	1013.0	946.9	849.5	831.9	730.6
15°	1067.8	1077.6	1088.6	1108.9	1125.3	1128.4	1100.1	1032.3	921.2	899.9	778.8
17.5°	1075.4	1084.7	1102.0	1131.4	1166.6	1190.4	1177.6	1115.2	992.2	967.7	829.5
20°	1113.8	1116.5	1127.0	1154.9	1193.0	1232.4	1242.0	1195.0	1062.4	1034.7	881.8
22.5°	1196.0	1190.6	1193.5	1206.3	1233.7	1271.8	1293.6	1265.5	1134.6	1102.8	934.7
25°	1331.8	1316.1	1300.5	1285.8	1299.7	1321.3	1346.0	1335.9	1210.2	1169.8	988.0
27.5°	1503.3	1484.2	1449.7	1401.5	1384.6	1392.2	1403.2	1401.3	1280.1	1239.3	1043.1
30°	1672.1	1649.9	1608.7	1539.0	1494.5	1474.4	1466.1	1460.5	1356.2	1312.7	1098.6
32.5°	1806.9	1789.3	1748.9	1670.9	1606.3	1572.0	1544.4	1524.3	1435.8	1392.2	1157.3
35°	1924.9	1908.5	1862.2	1777.1	1706.9	1670.4	1634.2	1591.4	1518.5	1474.4	1220.4
37.5°	2032.5	2016.1	1952.8	1864.2	1793.5	1768.3	1736.0	1663.3	1601.4	1559.8	1287.2
40°	2100.5	2096.9	2037.7	1937.3	1863.9	1851.5	1840.7	1746.7	1693.4	1654.7	1360.6
42.5°	2117.9	2126.0	2079.0	1996.6	1926.6	1916.5	1941.8	1841.2	1796.7	1759.7	1443.8
45°	2076.1	2099.3	2068.5	2012.5	1971.1	1965.7	2031.3	1944.4	1910.9	1877.2	1544.2
47.5°	1970.1	2009.5	1996.8	1989.0	1983.1	2006.3	2110.1	2054.1	2040.4	2011.0	1658.7
50°	1756.3	1830.9	1853.2	1902.6	1959.4	2037.9	2181.8	2173.7	2191.6	2162.0	1798.1
52.5°	1386.6	1489.3	1618.5	1742.3	1886.5	2027.4	2260.6	2345.5	2420.8	2404.7	2019.8
55°	1144.6	1190.8	1290.2	1517.2	1745.0	1983.1	2296.0	2484.2	2648.4	2633.9	2187.9
57.5°	958.6	1000.0	1061.2	1250.8	1531.2	1882.5	2318.1	2568.9	2804.2	2802.8	2353.8
60°	759.2	803.0	865.7	1000.0	1281.4	1708.8	2313.2	2665.3	3003.2	3015.4	2556.1
62.5°	534.1	582.3	651.8	777.1	1026.2	1483.7	2213.3	2735.0	3237.3	3270.6	2799.6
65°	351.1	382.9	435.3	543.4	764.6	1194.3	2022.7	2744.0	3487.9	3544.1	3028.1
67.5°	246.1	258.4	289.2	347.9	504.0	915.8	1719.1	2650.3	3655.0	3718.3	3127.2
70°	192.1	198.2	213.8	237.3	316.6	615.9	1317.3	2406.6	3619.3	3685.3	3023.7
72.5°	165.9	171.8	177.6	180.6	212.4	380.2	892.3	2012.2	3282.8	3327.6	2629.0
75°	150.5	151.9	156.8	155.9	162.0	246.6	515.0	1466.1	2590.1	2574.7	1940.8
77.5°	126.5	128.5	136.5	135.3	143.9	168.6	267.4	946.2	1679.2	1574.5	1080.2
80°	107.2	108.1	117.0	115.5	125.0	122.1	136.5	482.3	712.3	603.4	311.5
82.5°	37.2	46.0	89.3	92.0	95.4	73.9	78.8	196.7	217.5	166.6	65.3
85°	18.1	19.3	45.5	64.6	64.3	37.2	38.4	70.2	68.5	53.8	21.8
87.5°	2.9	3.7	5.4	25.2	20.1	9.8	13.2	13.7	14.2	12.2	4.9
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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	562.3	550.0	524.3	500.6	482.0	464.2	454.1	445.6	440.7	439.7	439.7
5°	577.4	552.2	505.5	466.1	440.4	421.3	411.3	404.9	401.8	399.8	399.6
7.5°	599.2	562.3	495.7	450.9	424.0	410.3	405.2	404.2	404.0	404.2	404.9
10°	629.3	578.7	494.7	447.3	424.8	417.2	416.9	417.2	418.2	418.4	418.6
12.5°	661.8	595.5	498.7	450.4	434.1	429.9	429.2	428.9	429.7	430.1	430.4
15°	697.3	617.8	505.3	457.3	444.3	439.9	439.2	437.7	437.5	437.2	437.0
17.5°	733.8	639.8	512.6	464.6	450.9	444.8	442.1	438.7	436.0	435.3	436.0
20°	770.7	661.6	517.7	468.3	451.4	442.9	437.5	431.6	427.0	424.3	425.2
22.5°	810.1	684.4	520.9	467.3	447.0	435.3	425.5	418.6	411.5	406.9	407.1
25°	848.5	704.2	520.7	462.2	438.5	423.5	411.1	402.2	392.5	387.6	387.6
27.5°	885.5	722.0	514.6	453.1	426.2	409.6	394.7	384.1	374.6	370.0	369.7
30°	923.7	737.0	505.0	439.9	411.8	393.4	377.0	368.0	359.4	355.0	354.8
32.5°	961.6	750.7	491.6	423.5	395.2	377.5	361.4	353.1	347.9	347.9	348.2
35°	1001.7	760.2	473.7	404.4	377.5	360.7	347.9	343.0	342.5	339.6	338.9
37.5°	1044.0	766.3	451.9	384.9	360.2	344.3	340.3	334.5	329.6	323.2	322.2
40°	1088.6	772.4	425.7	364.6	341.8	333.0	331.3	323.5	309.5	293.9	291.7
42.5°	1142.6	776.6	398.6	344.3	322.5	319.5	322.0	308.5	286.3	274.5	274.8
45°	1205.3	783.5	373.6	324.2	302.7	302.7	312.9	295.3	277.0	269.6	270.9
47.5°	1286.5	799.4	350.4	302.2	284.3	289.2	292.9	279.4	269.1	260.1	259.8
50°	1404.0	837.5	326.4	279.9	270.4	280.2	275.0	267.2	255.2	247.9	247.1
52.5°	1549.8	860.0	305.1	259.8	258.4	268.2	260.8	253.5	244.4	234.6	232.7
55°	1649.1	864.2	287.2	245.2	250.3	249.3	246.6	240.0	235.1	222.2	222.4
57.5°	1760.2	872.5	272.6	236.4	245.2	234.4	233.4	227.8	221.4	212.6	209.7
60°	1893.1	885.5	259.8	232.9	240.8	224.6	219.7	217.5	211.2	206.8	208.0
62.5°	2037.9	897.2	246.9	233.4	235.6	215.1	207.7	207.0	203.1	201.6	201.6
65°	2136.8	865.2	230.7	232.9	227.5	205.3	196.0	195.7	192.6	192.1	191.8
67.5°	2102.3	763.6	209.0	226.1	219.2	195.5	185.2	184.2	180.1	180.3	180.3
70°	1929.5	618.8	178.9	209.2	209.0	186.7	174.0	170.8	165.2	166.1	167.1
72.5°	1605.6	458.5	138.5	181.1	192.6	178.6	161.0	155.9	148.8	149.7	149.5
75°	1159.5	311.7	100.8	137.8	167.6	169.1	148.3	139.5	130.9	132.4	132.9
77.5°	593.3	176.7	74.1	94.9	131.6	153.7	136.8	125.0	123.1	136.8	134.8
80°	193.5	88.6	51.4	66.6	86.4	125.8	119.9	106.4	105.9	109.1	93.7
82.5°	57.7	37.4	33.0	43.8	47.7	96.4	103.5	80.5	69.2	72.9	75.4
85°	19.8	18.1	18.8	21.8	22.8	56.5	72.4	53.3	50.4	55.5	54.8
87.5°	4.6	6.4	5.4	4.9	4.9	13.7	28.1	22.3	30.8	20.6	19.8
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)