

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: P946287

Luminaire Tested: **GALN-SB2A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8132 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

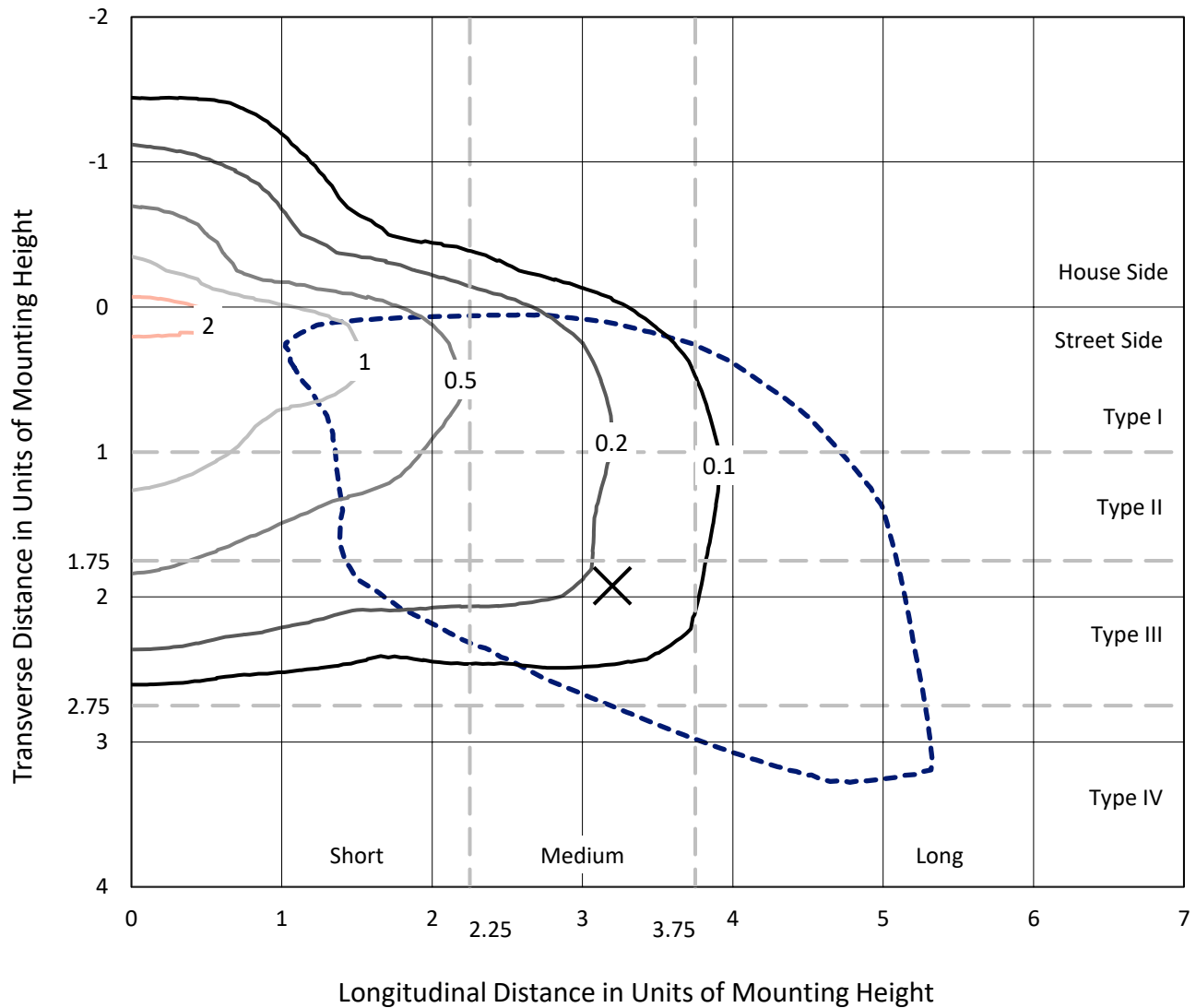
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

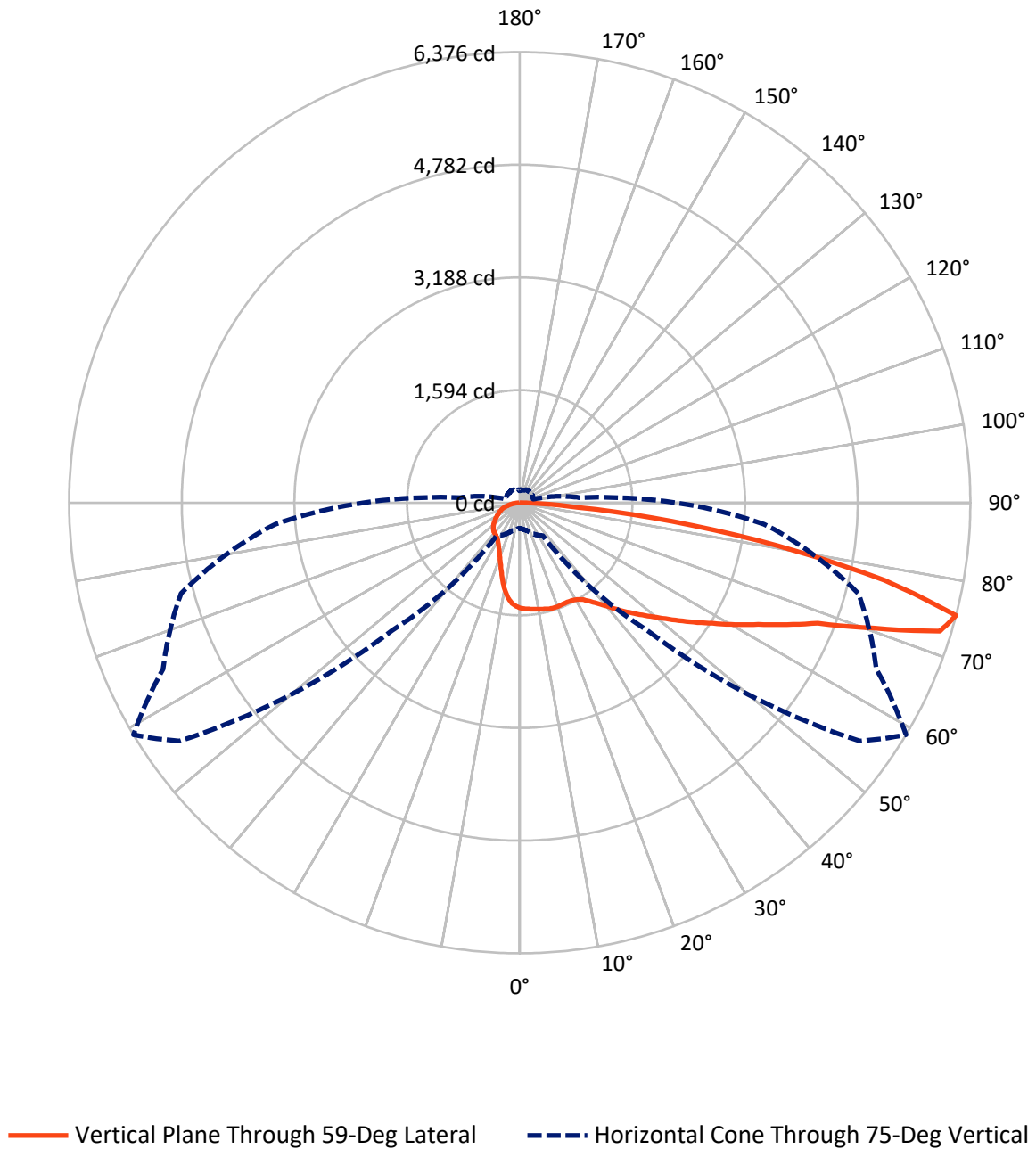


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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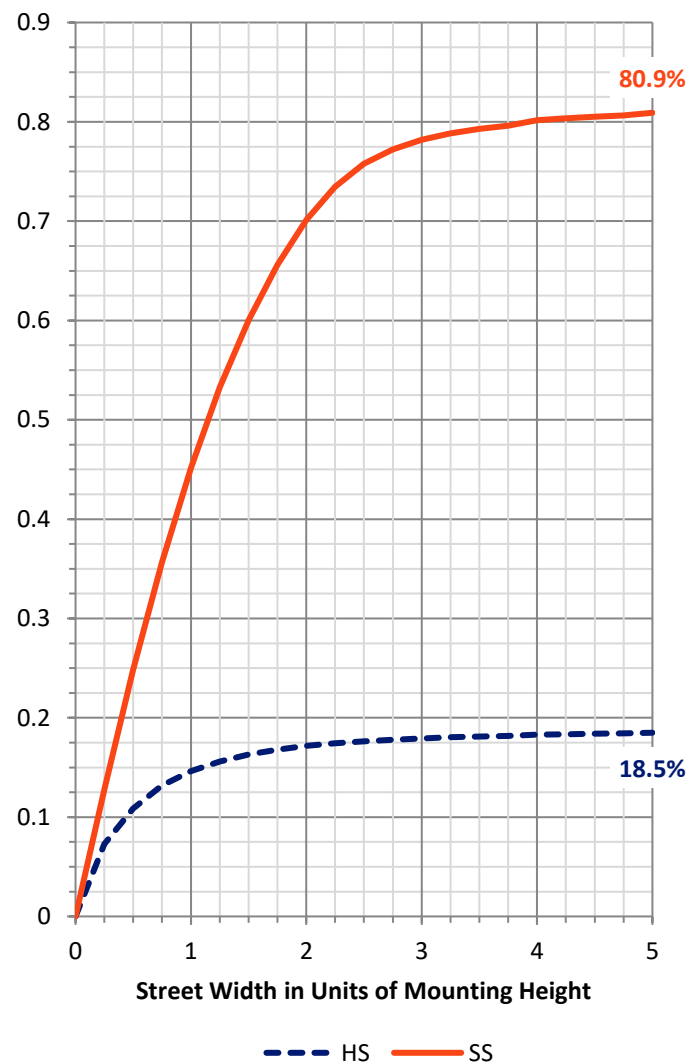
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1525.2	0.0	1525.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6606.8	0.0	6606.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	8132.0	0.0	8132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.6
10°-20°	342.1	4.2
20°-30°	519.6	6.4
30°-40°	772.4	9.5
40°-50°	1148.7	14.1
50°-60°	1559.2	19.2
60°-70°	1903.5	23.4
70°-80°	1493.9	18.4
80°-90°	258.8	3.2
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°	8132.0	100.0
0°-180°	8132.0	100.0

Coefficient of Utilization



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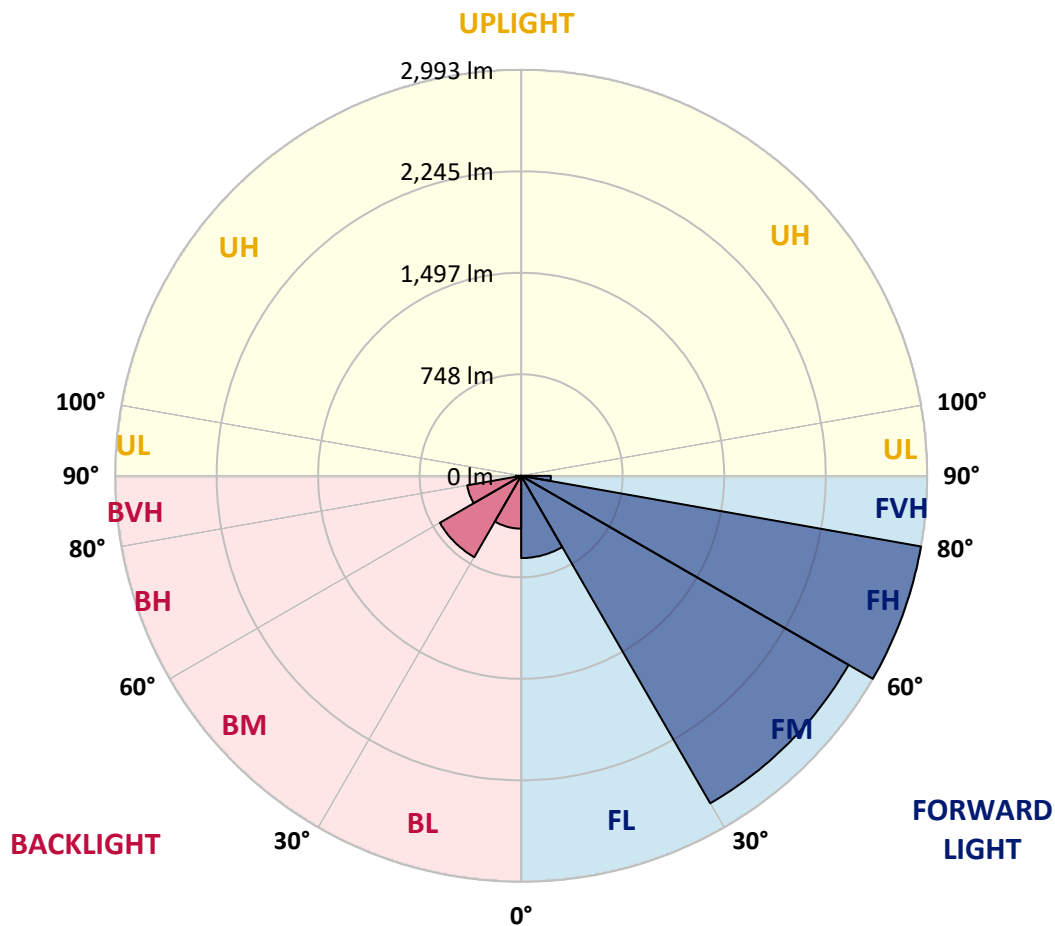
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.3	7.5			
FM	(30°-60°)	2788.0	34.3			
FH	(60°-80°)	2993.3	36.8			G2/5000
FVH	(80°-90°)	219.2	2.7			G2/225
BL	(0°-30°)	389.2	4.8	B1/500		
BM	(30°-60°)	692.3	8.5	B1/1000		
BH	(60°-80°)	404.1	5.0	B1/500		G1/500
BVH	(80°-90°)	39.6	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1505.3	1500.0	1505.3	1503.1	1502.2	1500.5	1500.9	1504.0	1502.2	1504.4	1497.0
5°	1495.2	1492.2	1497.4	1496.1	1501.8	1502.7	1508.4	1511.9	1514.0	1514.5	1508.8
7.5°	1478.6	1475.5	1483.0	1489.1	1501.4	1504.9	1516.7	1522.4	1525.4	1530.7	1522.4
10°	1417.8	1416.5	1434.9	1458.1	1486.9	1504.9	1522.8	1532.4	1537.2	1551.2	1541.6
12.5°	1310.2	1311.9	1336.0	1380.6	1438.4	1496.1	1529.8	1543.8	1551.2	1568.7	1564.4
15°	1207.4	1206.9	1233.2	1280.9	1361.8	1457.6	1533.3	1557.4	1570.0	1595.9	1592.4
17.5°	1147.9	1146.1	1164.5	1200.8	1276.1	1398.6	1524.5	1564.8	1591.9	1624.3	1621.2
20°	1137.0	1133.5	1143.1	1161.0	1214.4	1333.8	1501.8	1564.8	1609.4	1651.4	1649.7
22.5°	1176.8	1171.1	1167.1	1165.0	1188.6	1280.4	1476.0	1559.5	1635.2	1690.3	1687.3
25°	1256.8	1248.1	1227.9	1208.3	1201.3	1256.4	1453.2	1558.2	1673.7	1742.8	1731.5
27.5°	1386.3	1375.4	1334.7	1287.4	1245.0	1268.6	1443.2	1566.1	1716.2	1798.4	1775.6
30°	1546.9	1535.0	1483.9	1411.2	1335.1	1314.1	1455.9	1589.3	1770.4	1872.3	1827.7
32.5°	1690.8	1677.7	1633.9	1560.0	1457.2	1392.9	1496.1	1633.5	1855.7	1975.1	1906.0
35°	1818.5	1803.2	1763.8	1695.6	1606.8	1503.5	1568.7	1711.8	1976.9	2142.2	2012.3
37.5°	1943.6	1925.7	1882.8	1810.6	1748.5	1651.0	1668.9	1812.4	2137.9	2345.2	2153.2
40°	2083.6	2057.8	2005.8	1934.4	1874.1	1823.8	1800.6	1935.8	2301.5	2571.8	2329.0
42.5°	2219.2	2194.7	2132.6	2071.8	1996.1	1981.7	1953.3	2080.1	2480.4	2820.7	2507.5
45°	2365.3	2336.0	2260.8	2183.8	2136.1	2086.7	2101.1	2224.5	2655.8	3074.5	2694.7
47.5°	2502.3	2469.5	2380.7	2294.9	2268.7	2175.0	2236.7	2383.3	2838.2	3331.7	2880.2
50°	2576.2	2543.8	2469.9	2392.5	2371.9	2284.0	2383.7	2557.8	3029.4	3588.0	3058.3
52.5°	2637.9	2602.9	2506.2	2463.3	2457.2	2402.5	2564.8	2757.3	3220.6	3814.6	3230.2
55°	2703.5	2664.6	2541.2	2502.7	2530.7	2535.5	2779.6	2983.5	3422.7	4035.6	3392.5
57.5°	2779.2	2729.7	2574.9	2536.0	2602.4	2691.2	3026.3	3217.9	3621.3	4240.3	3536.9
60°	2850.5	2800.6	2639.6	2588.9	2679.9	2871.9	3309.4	3501.9	3846.1	4422.7	3673.3
62.5°	2864.5	2823.4	2691.2	2690.8	2784.9	3082.8	3644.5	3788.4	4042.6	4602.9	3795.8
65°	2622.1	2596.3	2518.0	2686.9	2935.4	3386.4	4017.6	4155.0	4292.3	4760.4	3903.4
67.5°	1995.7	1999.2	1993.5	2319.4	2813.7	3822.5	4557.9	4547.4	4600.8	4937.2	4027.2
70°	912.5	933.1	1067.0	1601.1	2254.2	3872.8	5451.2	5315.1	4987.9	5166.0	4134.4
72.5°	493.0	508.8	563.4	775.6	1355.2	3443.2	6118.7	6215.4	5502.8	5319.9	4016.7
75°	361.8	370.5	408.6	493.0	569.1	2559.1	5879.5	6375.5	5567.1	4960.8	3468.6
77.5°	270.8	274.7	305.8	390.7	291.3	1349.1	4697.9	5280.1	4765.7	4075.8	2562.2
80°	196.4	200.8	224.0	293.1	204.3	493.5	3225.8	3706.2	3263.9	2598.1	1276.9
82.5°	135.6	137.4	147.4	199.5	142.6	191.6	1830.3	2173.3	1822.0	911.7	344.7
85°	81.8	84.0	88.4	116.4	80.9	91.0	790.1	817.2	544.6	217.9	107.2
87.5°	33.7	35.9	39.4	49.0	31.9	25.4	130.4	163.6	101.9	63.9	33.2
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°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1494.8	1491.7	1483.4	1472.0	1461.6	1448.4	1442.7	1437.9	1433.6	1425.2	1421.3
5°	1504.0	1495.7	1473.4	1444.5	1411.7	1375.8	1340.8	1316.8	1296.2	1280.9	1268.2
7.5°	1518.0	1502.2	1461.6	1402.5	1327.3	1250.3	1180.7	1131.3	1094.1	1080.5	1056.9
10°	1532.4	1513.6	1442.7	1338.6	1208.7	1090.1	997.8	947.1	917.4	907.7	892.9
12.5°	1549.5	1521.9	1413.4	1249.8	1076.1	946.2	865.7	836.0	820.7	815.4	816.7
15°	1574.4	1528.9	1369.2	1138.7	949.7	841.2	789.2	768.6	760.7	760.3	762.1
17.5°	1593.2	1530.2	1300.6	1019.7	852.6	777.8	734.9	727.1	732.3	740.2	743.2
20°	1614.2	1518.4	1210.4	911.2	784.4	722.2	704.3	709.6	722.2	733.6	737.6
22.5°	1629.1	1497.0	1101.5	826.8	725.3	690.3	689.4	700.4	707.4	713.1	716.1
25°	1642.2	1460.7	986.0	755.9	676.7	671.1	680.7	677.2	672.4	677.2	680.2
27.5°	1651.8	1403.4	882.8	693.8	642.6	657.9	652.3	644.4	643.9	646.6	650.9
30°	1648.8	1326.8	797.9	634.8	618.6	633.4	619.9	618.6	617.3	618.6	623.4
32.5°	1648.8	1239.8	732.7	594.1	603.3	597.6	596.3	593.2	587.9	587.5	593.2
35°	1658.0	1152.7	676.7	572.2	590.6	577.0	577.9	570.4	559.5	554.3	559.5
37.5°	1676.8	1082.7	621.2	561.7	568.3	567.8	564.3	551.6	532.4	515.8	521.5
40°	1722.3	1062.2	583.1	556.9	557.8	563.0	553.8	529.3	485.6	458.5	462.0
42.5°	1793.6	1096.7	574.8	545.1	550.8	556.0	538.1	481.2	450.1	434.0	434.0
45°	1884.1	1157.1	592.8	528.0	534.1	543.3	490.0	462.8	448.8	449.3	451.5
47.5°	1998.8	1220.5	626.0	513.1	510.1	515.3	458.0	441.4	422.1	427.0	439.2
50°	2131.3	1284.8	657.5	493.0	483.4	466.3	437.5	421.7	397.2	385.8	388.9
52.5°	2274.8	1346.9	670.2	468.5	454.5	434.8	423.5	404.2	374.5	355.7	355.2
55°	2410.8	1403.4	656.2	439.2	425.6	410.3	408.6	396.8	364.8	338.6	338.6
57.5°	2539.5	1450.6	621.2	409.5	396.3	387.2	399.0	393.3	353.0	319.3	317.6
60°	2648.4	1483.0	570.4	379.3	370.1	365.3	383.2	381.5	336.4	298.8	297.5
62.5°	2735.0	1495.7	514.5	350.4	348.2	339.5	361.3	361.3	315.4	278.7	277.3
65°	2802.8	1483.4	457.6	322.0	326.3	313.2	334.7	332.0	293.1	260.7	259.0
67.5°	2862.7	1443.2	394.6	294.0	304.0	287.4	306.7	300.5	268.6	242.8	241.0
70°	2889.4	1349.6	322.8	266.0	278.2	262.0	278.7	267.3	241.0	223.5	220.0
72.5°	2675.1	1121.6	254.2	236.7	247.2	234.0	248.5	235.4	211.3	203.4	196.9
75°	2213.1	841.7	195.5	204.7	212.6	202.5	212.2	202.5	180.7	186.4	170.2
77.5°	1607.2	568.3	149.6	171.0	174.5	169.3	177.6	166.7	147.0	145.7	139.1
80°	799.2	332.9	117.2	135.2	133.9	130.4	140.0	134.7	118.1	125.1	123.8
82.5°	231.4	142.6	85.3	94.9	92.3	93.2	100.2	102.8	154.0	152.7	156.2
85°	72.6	56.0	51.2	52.9	50.3	51.6	59.1	117.2	108.5	63.4	68.7
87.5°	18.8	19.2	12.7	13.6	14.0	16.6	18.8	71.3	34.1	22.3	23.6
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)