

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: P945216

Luminaire Tested: **GALN-SB1B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945216
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-SB1B-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5106 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

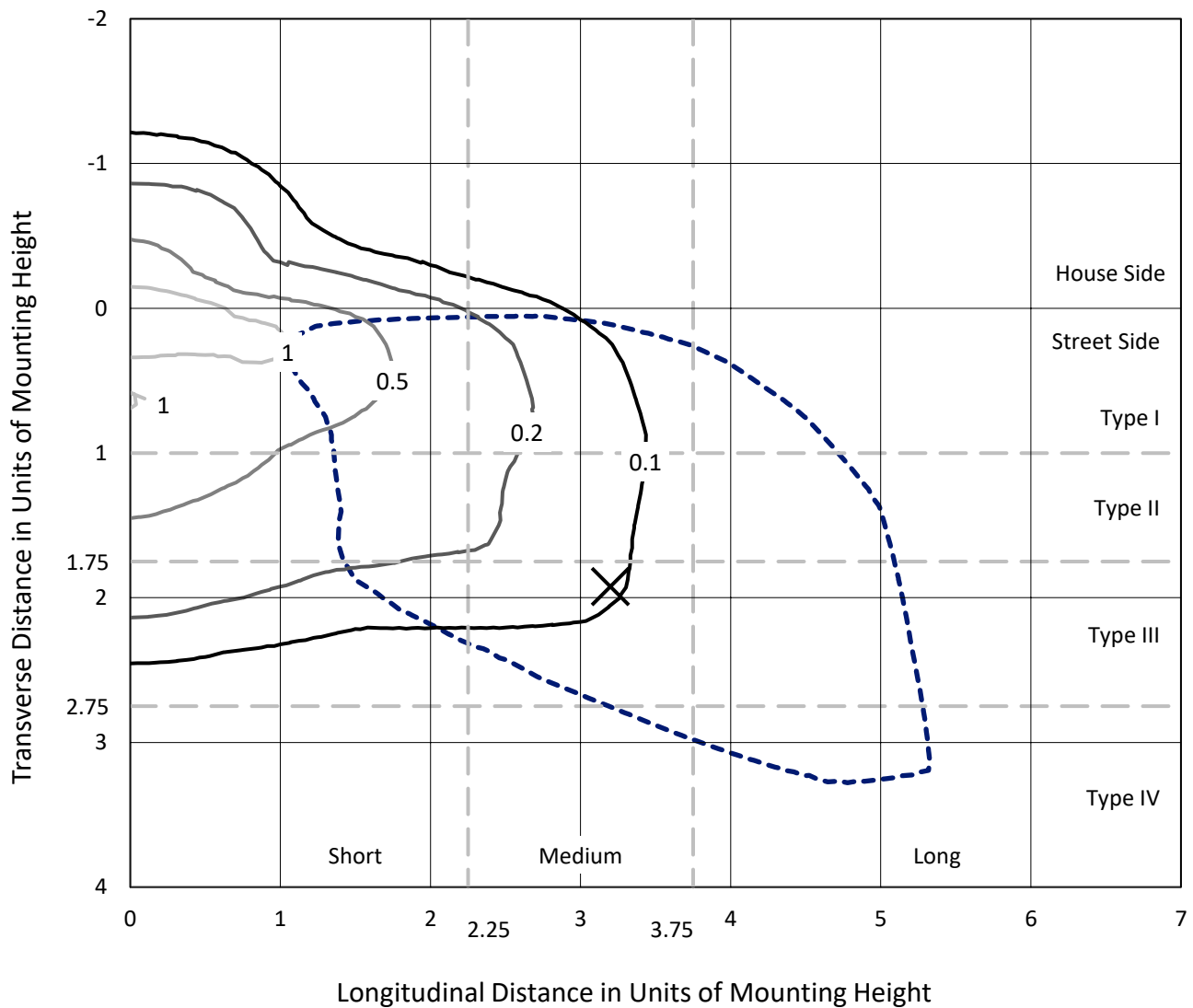
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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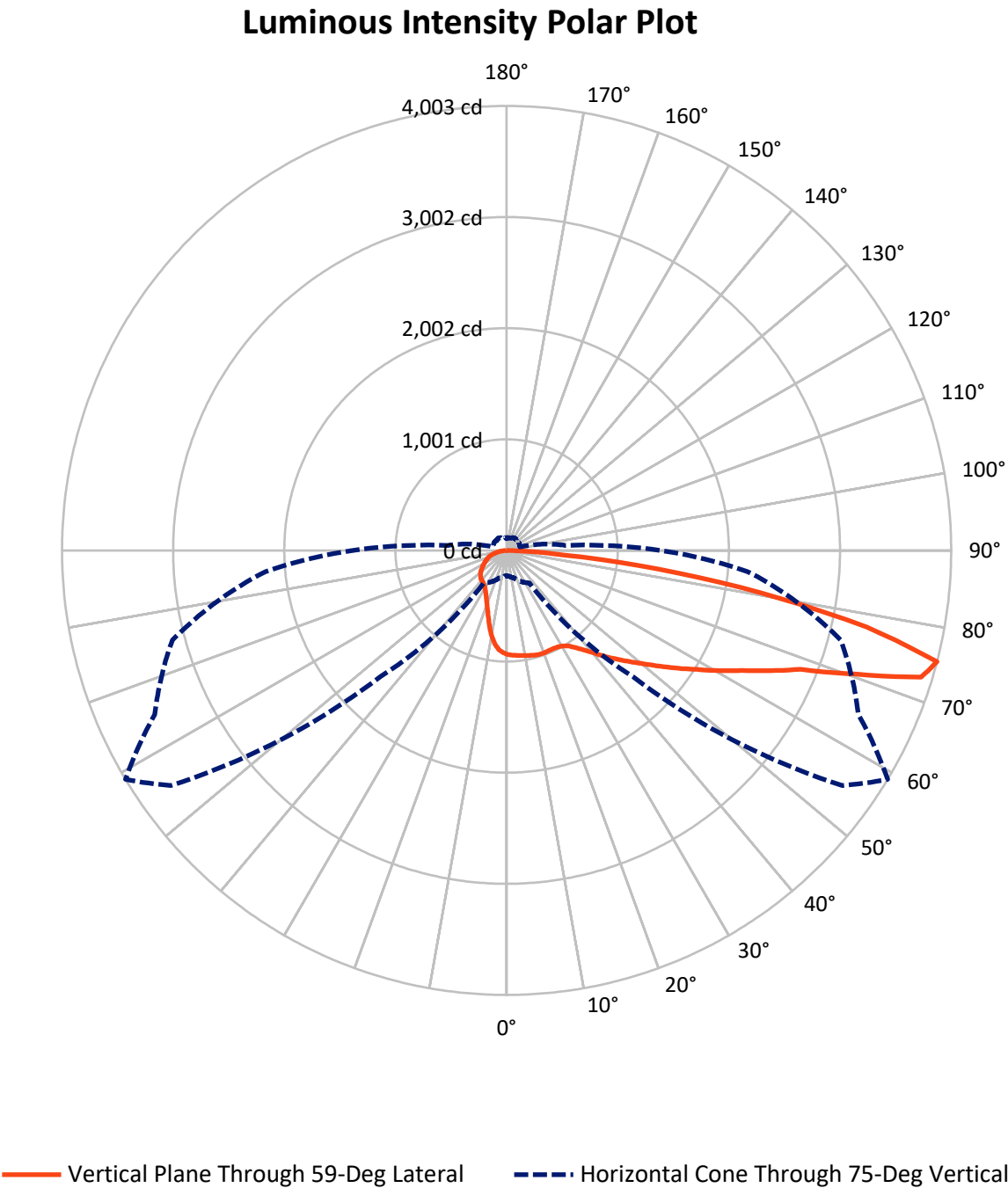
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Medium - N/A

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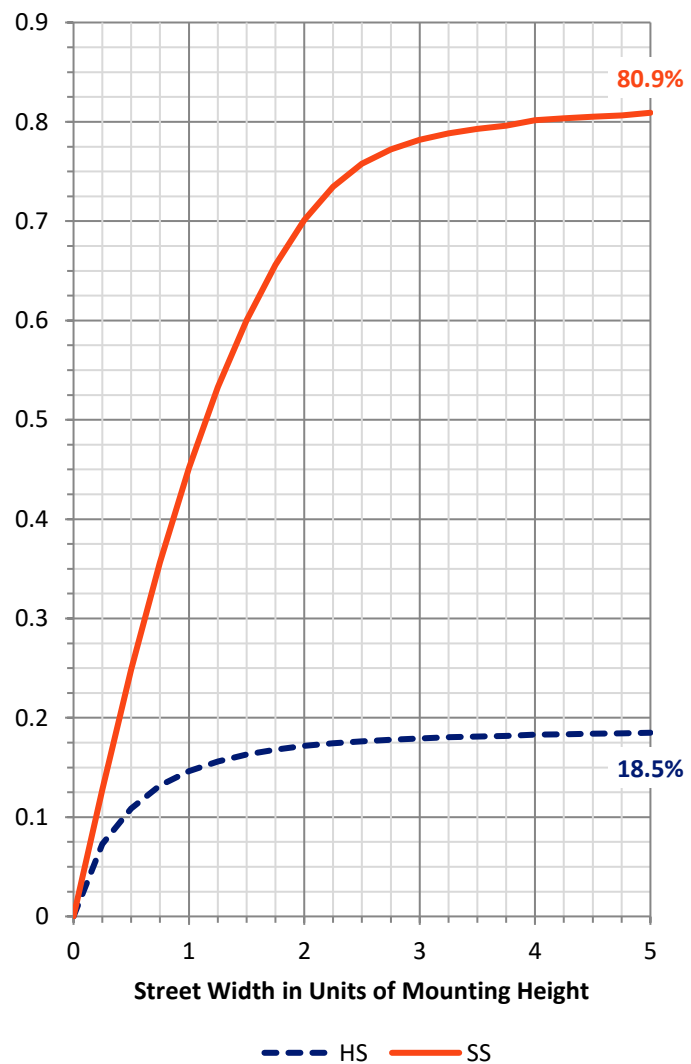
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	957.7	0.0	957.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4148.3	0.0	4148.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	5106.0	0.0	5106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.6
10°-20°	214.8	4.2
20°-30°	326.3	6.4
30°-40°	485.0	9.5
40°-50°	721.2	14.1
50°-60°	979.0	19.2
60°-70°	1195.2	23.4
70°-80°	938.0	18.4
80°-90°	162.5	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°	5106.0	100.0
0°-180°	5106.0	100.0

Coefficient of Utilization



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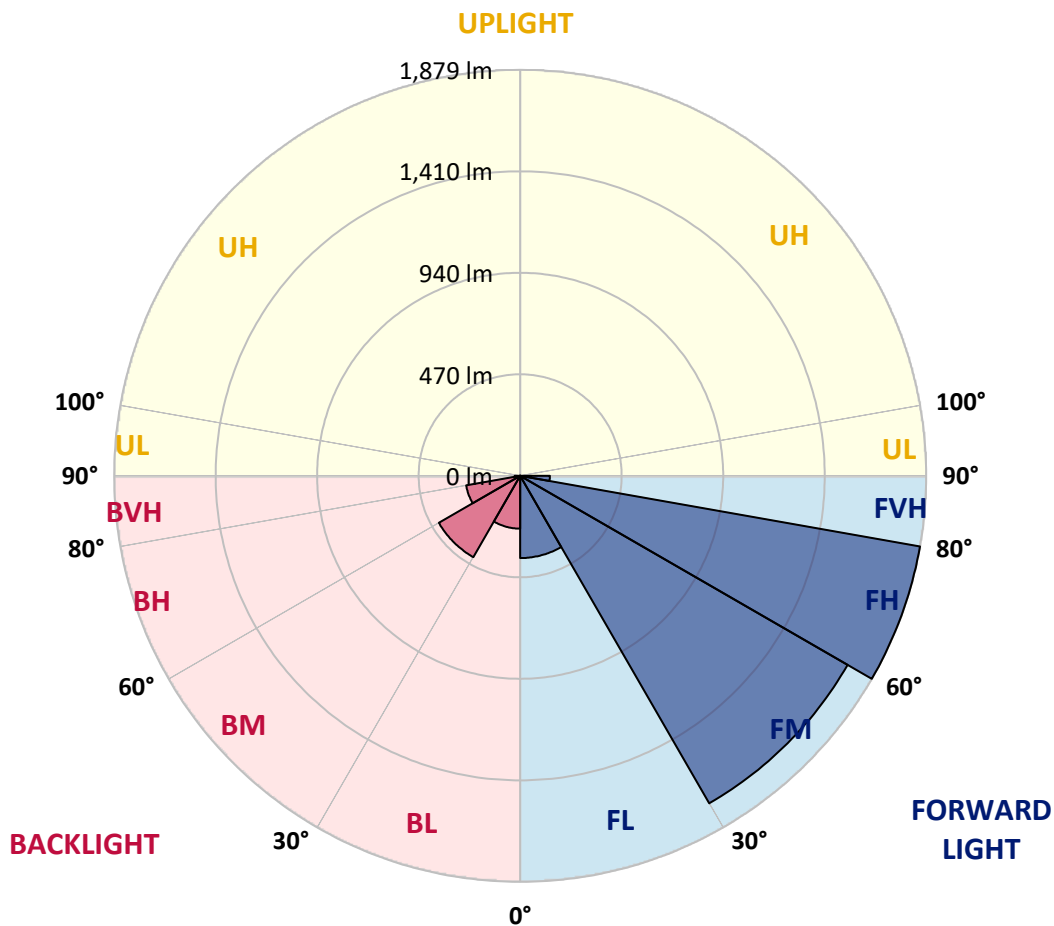
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.7	7.5			
FM	(30°-60°)	1750.5	34.3			
FH	(60°-80°)	1879.5	36.8			G2/5000
FVH	(80°-90°)	137.6	2.7			G2/225
BL	(0°-30°)	244.4	4.8	B1/500		
BM	(30°-60°)	434.7	8.5	B1/1000		
BH	(60°-80°)	253.7	5.0	B1/500		G1/500
BVH	(80°-90°)	24.9	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°	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2
2.5°	945.2	941.9	945.2	943.8	943.2	942.1	942.4	944.3	943.2	944.6	939.9
5°	938.8	936.9	940.2	939.4	943.0	943.5	947.1	949.3	950.7	950.9	947.4
7.5°	928.4	926.5	931.2	935.0	942.7	944.9	952.3	955.9	957.8	961.1	955.9
10°	890.2	889.4	900.9	915.5	933.6	944.9	956.1	962.2	965.2	974.0	968.0
12.5°	822.7	823.8	838.9	866.9	903.1	939.4	960.5	969.3	974.0	985.0	982.2
15°	758.1	757.8	774.3	804.3	855.1	915.2	962.7	977.8	985.8	1002.0	999.8
17.5°	720.8	719.7	731.2	754.0	801.2	878.1	957.2	982.5	999.5	1019.9	1017.9
20°	713.9	711.7	717.7	729.0	762.5	837.5	943.0	982.5	1010.5	1036.9	1035.8
22.5°	738.9	735.3	732.8	731.5	746.3	804.0	926.8	979.2	1026.7	1061.3	1059.4
25°	789.1	783.7	771.0	758.7	754.3	788.9	912.5	978.4	1050.9	1094.3	1087.2
27.5°	870.4	863.6	838.0	808.4	781.7	796.6	906.2	983.3	1077.6	1129.2	1114.9
30°	971.3	963.8	931.7	886.1	838.3	825.1	914.1	997.9	1111.6	1175.6	1147.6
32.5°	1061.6	1053.4	1025.9	979.5	914.9	874.6	939.4	1025.6	1165.2	1240.2	1196.8
35°	1141.8	1132.2	1107.5	1064.6	1008.9	944.1	985.0	1074.8	1241.3	1345.1	1263.5
37.5°	1220.4	1209.1	1182.2	1136.9	1097.9	1036.6	1047.9	1138.0	1342.3	1472.5	1352.0
40°	1308.3	1292.1	1259.4	1214.6	1176.7	1145.1	1130.6	1215.4	1445.1	1614.8	1462.4
42.5°	1393.4	1378.1	1339.0	1300.9	1253.3	1244.3	1226.4	1306.1	1557.4	1771.1	1574.4
45°	1485.2	1466.8	1419.5	1371.2	1341.2	1310.2	1319.3	1396.7	1667.6	1930.4	1692.0
47.5°	1571.1	1550.5	1494.8	1441.0	1424.5	1365.7	1404.4	1496.4	1782.1	2091.9	1808.5
50°	1617.6	1597.2	1550.8	1502.2	1489.3	1434.1	1496.7	1606.0	1902.1	2252.9	1920.3
52.5°	1656.3	1634.3	1573.6	1546.7	1542.9	1508.5	1610.4	1731.3	2022.2	2395.2	2028.2
55°	1697.5	1673.1	1595.6	1571.4	1589.0	1592.0	1745.3	1873.3	2149.1	2533.9	2130.1
57.5°	1745.0	1714.0	1616.7	1592.3	1634.0	1689.8	1900.2	2020.5	2273.8	2662.4	2220.8
60°	1789.8	1758.5	1657.4	1625.5	1682.7	1803.2	2077.9	2198.8	2415.0	2777.0	2306.5
62.5°	1798.6	1772.8	1689.8	1689.5	1748.6	1935.6	2288.3	2378.7	2538.3	2890.1	2383.4
65°	1646.4	1630.2	1581.0	1687.1	1843.1	2126.3	2522.6	2608.9	2695.1	2989.0	2450.9
67.5°	1253.1	1255.3	1251.7	1456.3	1766.7	2400.1	2861.9	2855.3	2888.8	3100.0	2528.7
70°	573.0	585.9	669.9	1005.3	1415.4	2431.7	3422.7	3337.3	3131.9	3243.7	2596.0
72.5°	309.6	319.4	353.8	487.0	850.9	2162.0	3841.9	3902.6	3455.2	3340.3	2522.1
75°	227.2	232.7	256.5	309.6	357.4	1606.9	3691.6	4003.1	3495.5	3114.8	2177.9
77.5°	170.0	172.5	192.0	245.3	182.9	847.1	2949.7	3315.3	2992.3	2559.2	1608.8
80°	123.3	126.1	140.6	184.0	128.3	309.8	2025.5	2327.1	2049.4	1631.3	801.8
82.5°	85.1	86.2	92.6	125.3	89.5	120.3	1149.2	1364.6	1144.0	572.4	216.4
85°	51.4	52.7	55.5	73.1	50.8	57.1	496.1	513.1	342.0	136.8	67.3
87.5°	21.2	22.5	24.7	30.8	20.1	15.9	81.9	102.7	64.0	40.1	20.9
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°	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2	937.2
2.5°	938.6	936.6	931.4	924.3	917.7	909.5	905.9	902.9	900.1	894.9	892.4
5°	944.3	939.1	925.1	907.0	886.4	863.9	841.9	826.8	813.9	804.3	796.3
7.5°	953.1	943.2	917.7	880.6	833.4	785.0	741.4	710.3	687.0	678.5	663.6
10°	962.2	950.4	905.9	840.5	758.9	684.5	626.5	594.7	576.0	570.0	560.6
12.5°	972.9	955.6	887.5	784.7	675.7	594.1	543.6	524.9	515.3	512.0	512.8
15°	988.6	960.0	859.7	715.0	596.3	528.2	495.5	482.6	477.7	477.4	478.5
17.5°	1000.4	960.8	816.6	640.3	535.3	488.4	461.5	456.5	459.8	464.8	466.7
20°	1013.6	953.4	760.0	572.2	492.5	453.5	442.2	445.5	453.5	460.6	463.1
22.5°	1022.9	939.9	691.6	519.1	455.4	433.4	432.9	439.8	444.2	447.7	449.6
25°	1031.1	917.1	619.1	474.6	424.9	421.4	427.4	425.2	422.2	425.2	427.1
27.5°	1037.2	881.2	554.3	435.6	403.5	413.1	409.5	404.6	404.3	406.0	408.7
30°	1035.3	833.1	501.0	398.6	388.4	397.7	389.2	388.4	387.6	388.4	391.4
32.5°	1035.3	778.4	460.1	373.0	378.8	375.2	374.4	372.5	369.2	368.9	372.5
35°	1041.0	723.8	424.9	359.3	370.8	362.3	362.8	358.2	351.3	348.0	351.3
37.5°	1052.8	679.8	390.0	352.7	356.8	356.5	354.3	346.4	334.3	323.8	327.4
40°	1081.4	666.9	366.1	349.7	350.2	353.5	347.7	332.4	304.9	287.9	290.1
42.5°	1126.2	688.6	360.9	342.2	345.8	349.1	337.9	302.1	282.6	272.5	272.5
45°	1183.0	726.5	372.2	331.5	335.4	341.1	307.6	290.6	281.8	282.1	283.5
47.5°	1255.0	766.3	393.1	322.2	320.3	323.6	287.6	277.1	265.1	268.1	275.8
50°	1338.2	806.7	412.8	309.6	303.5	292.8	274.7	264.8	249.4	242.3	244.2
52.5°	1428.3	845.7	420.8	294.2	285.4	273.0	265.9	253.8	235.1	223.3	223.0
55°	1513.7	881.2	412.0	275.8	267.3	257.6	256.5	249.1	229.1	212.6	212.6
57.5°	1594.5	910.8	390.0	257.1	248.9	243.1	250.5	246.9	221.7	200.5	199.4
60°	1662.9	931.2	358.2	238.1	232.4	229.4	240.6	239.5	211.2	187.6	186.8
62.5°	1717.3	939.1	323.0	220.0	218.6	213.1	226.9	226.9	198.0	175.0	174.1
65°	1759.8	931.4	287.3	202.2	204.9	196.7	210.1	208.5	184.0	163.7	162.6
67.5°	1797.5	906.2	247.8	184.6	190.9	180.5	192.5	188.7	168.7	152.4	151.3
70°	1814.2	847.4	202.7	167.0	174.7	164.5	175.0	167.8	151.3	140.4	138.2
72.5°	1679.6	704.3	159.6	148.6	155.2	147.0	156.0	147.8	132.7	127.7	123.6
75°	1389.6	528.5	122.8	128.5	133.5	127.2	133.2	127.2	113.4	117.0	106.8
77.5°	1009.2	356.8	93.9	107.4	109.6	106.3	111.5	104.7	92.3	91.5	87.3
80°	501.8	209.0	73.6	84.9	84.1	81.9	87.9	84.6	74.2	78.6	77.7
82.5°	145.3	89.5	53.6	59.6	58.0	58.5	62.9	64.5	96.7	95.9	98.1
85°	45.6	35.2	32.1	33.2	31.6	32.4	37.1	73.6	68.1	39.8	43.1
87.5°	11.8	12.1	8.0	8.5	8.8	10.4	11.8	44.8	21.4	14.0	14.8
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)