

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: P944874

Luminaire Tested: **GALN-SB1A-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3826 lumens
Efficiency: N/A
Efficacy: 123.8 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): 30.9
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

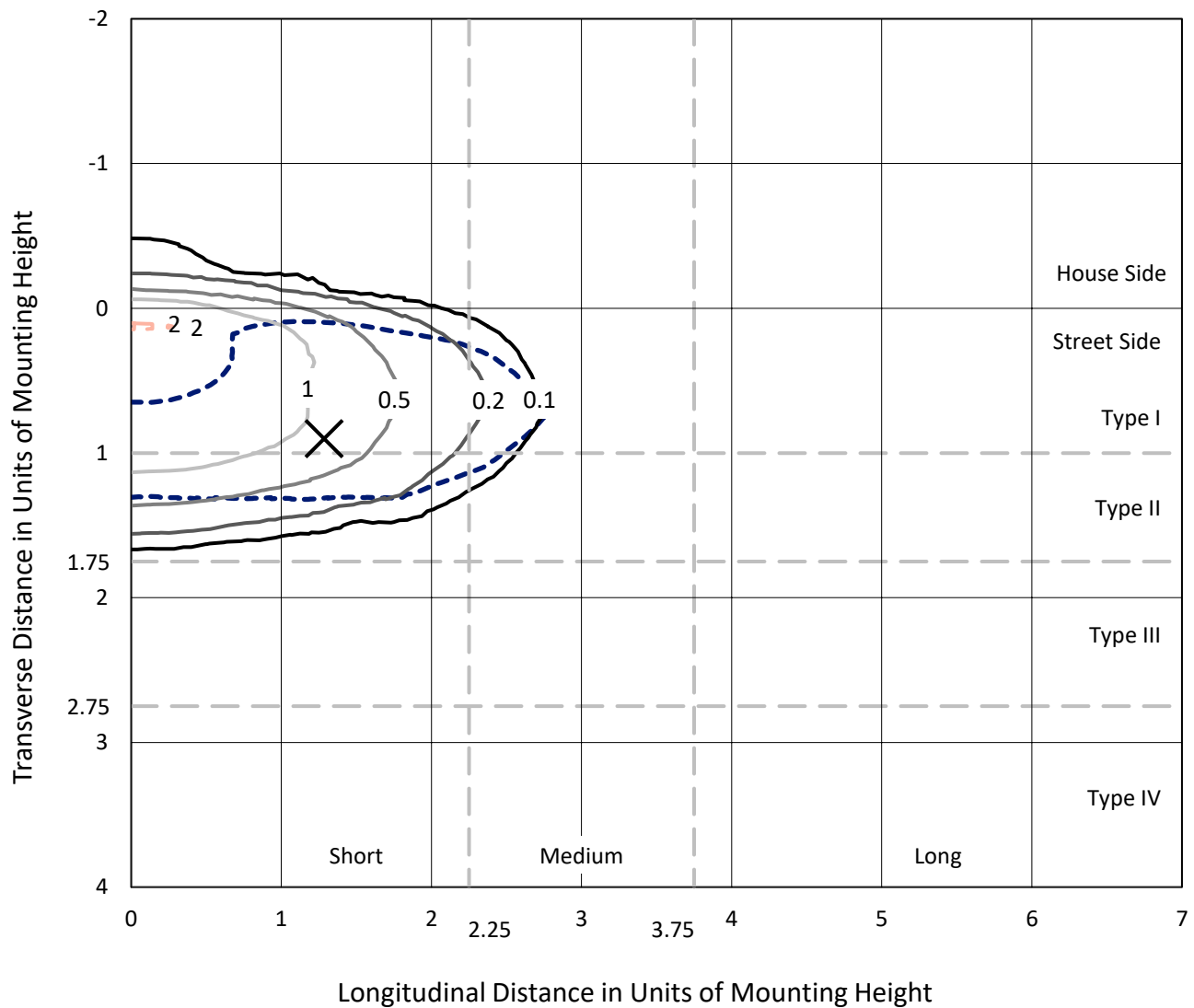


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Iso-Footcandle Lines of Horizontal Illumination

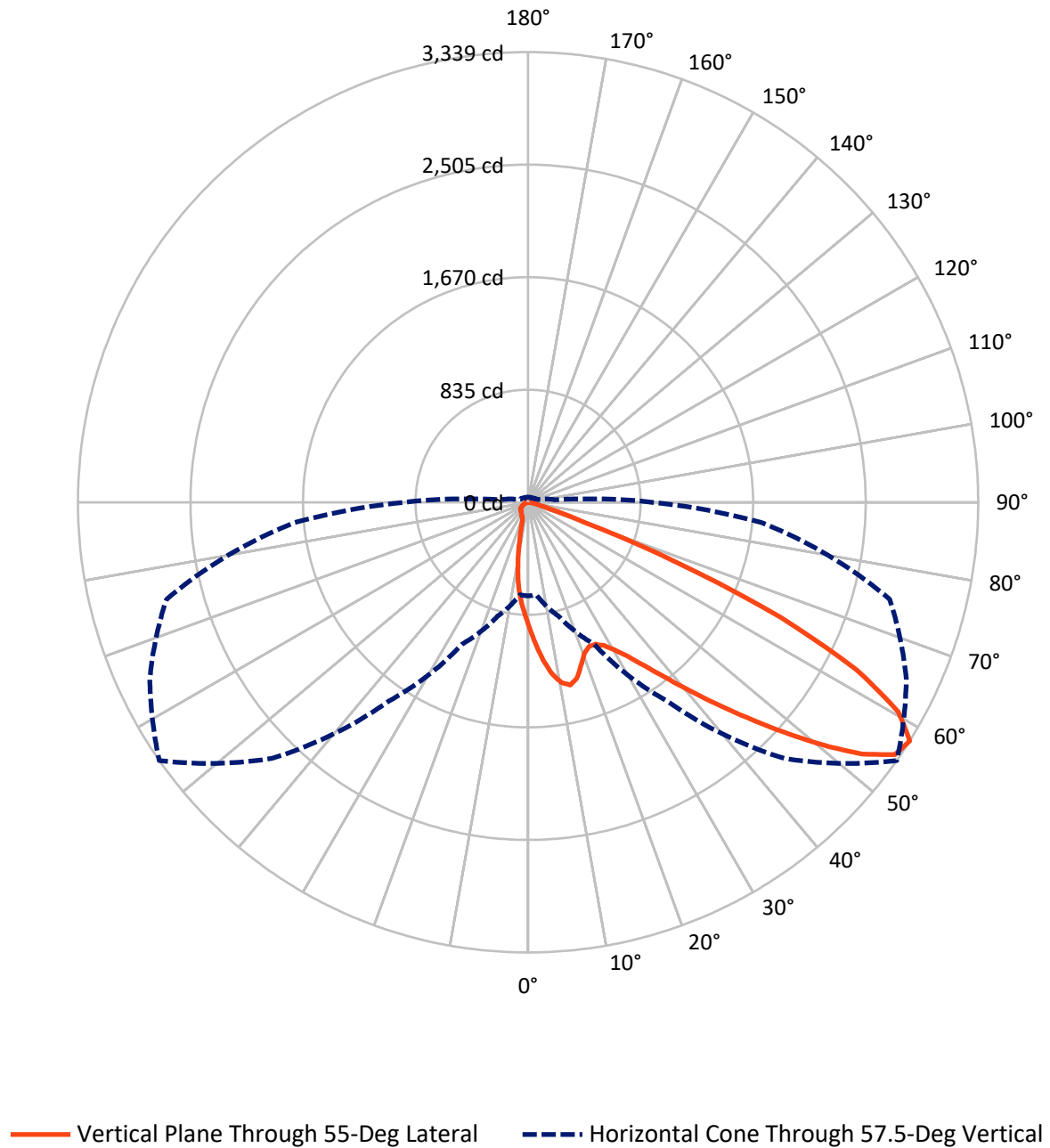
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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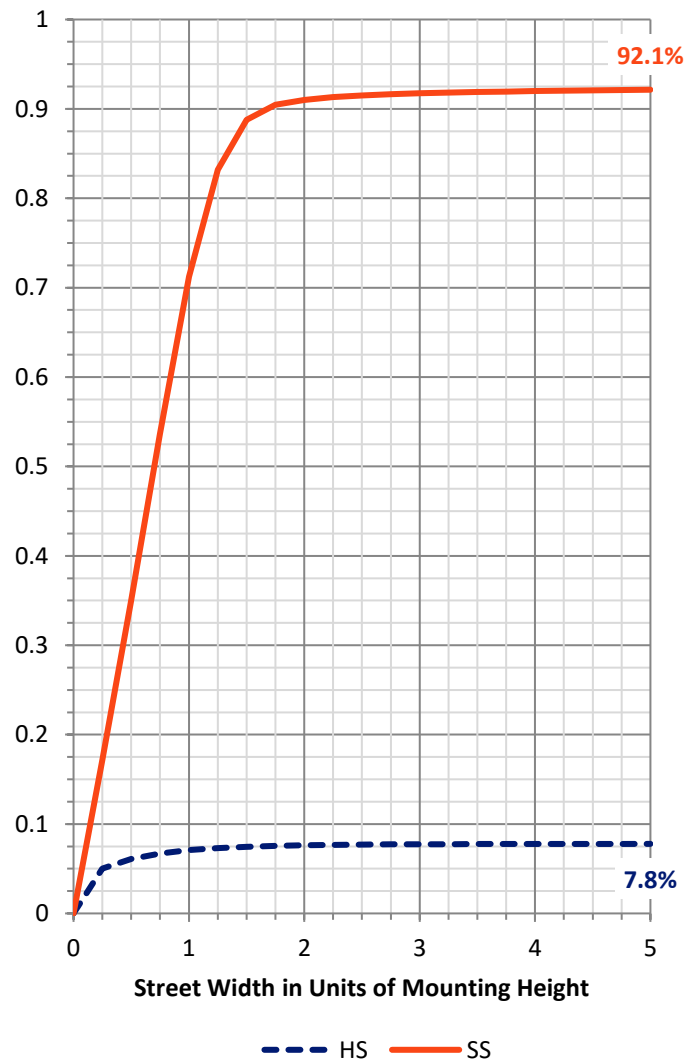
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.8	0.0	298.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3527.2	0.0	3527.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	3826.0	0.0	3826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.2
10°-20°	207.2	5.4
20°-30°	331.5	8.7
30°-40°	561.1	14.7
40°-50°	921.3	24.1
50°-60°	1012.6	26.5
60°-70°	580.8	15.2
70°-80°	118.7	3.1
80°-90°	7.0	0.2
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°	3826.0	100.0
0°-180°	3826.0	100.0

Coefficient of Utilization



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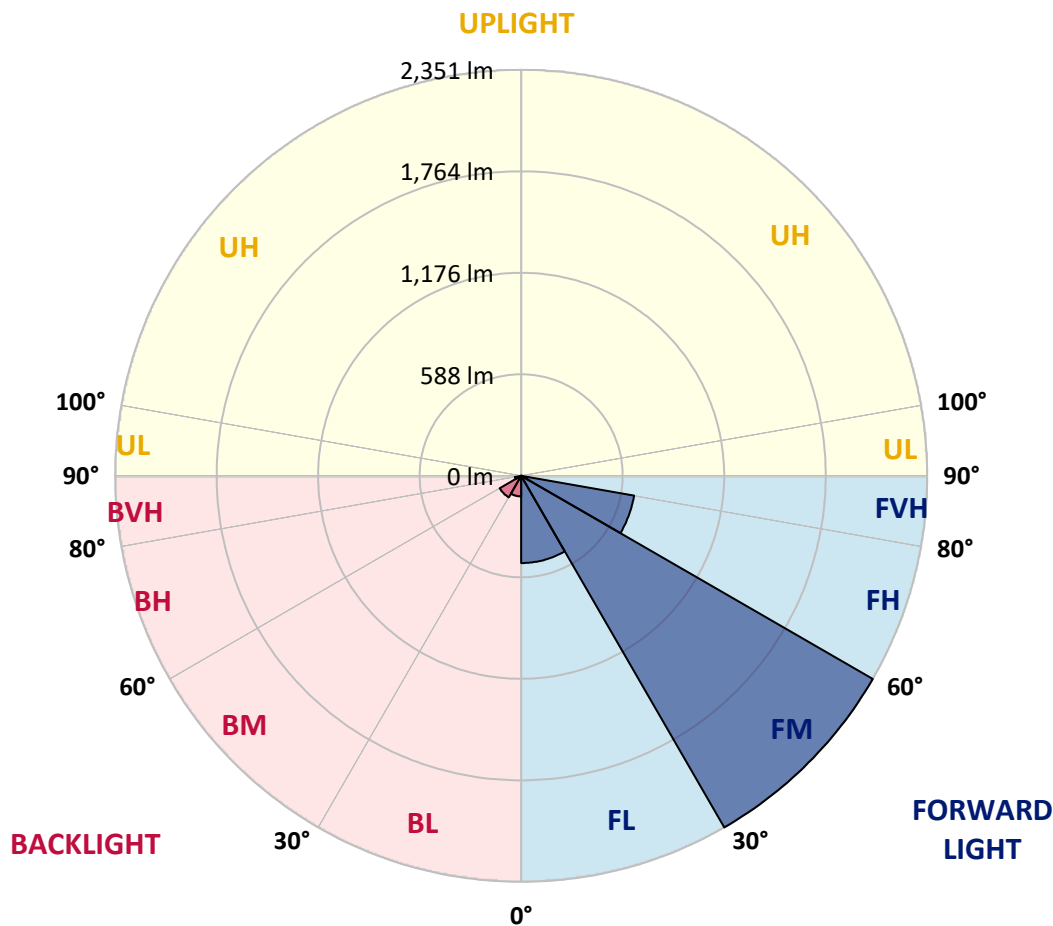
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.2	13.2			
FM	(30°-60°)	2351.5	61.5			
FH	(60°-80°)	663.9	17.4			G1/1800
FVH	(80°-90°)	6.5	0.2			G0/10
BL	(0°-30°)	119.3	3.1	B1/500		
BM	(30°-60°)	143.5	3.8	B0/220		
BH	(60°-80°)	35.5	0.9	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0
2.5°	1144.0	1129.6	1127.5	1124.6	1097.3	1076.7	1047.0	1014.5	977.9	940.6	924.1
5°	1321.6	1310.3	1308.2	1295.0	1263.8	1228.9	1176.1	1109.3	1041.1	960.9	926.5
7.5°	1356.1	1353.9	1363.6	1363.1	1358.9	1331.3	1286.7	1207.2	1104.8	985.9	932.6
10°	1202.5	1207.9	1236.7	1261.9	1330.1	1369.7	1360.1	1294.5	1170.4	1014.5	939.4
12.5°	1062.6	1056.2	1076.7	1105.3	1184.5	1302.5	1390.5	1367.4	1245.4	1046.8	949.6
15°	974.8	972.2	983.8	997.0	1057.4	1176.3	1355.1	1426.6	1317.6	1085.0	964.9
17.5°	946.7	944.6	948.2	951.5	990.6	1082.6	1270.9	1462.9	1386.7	1128.6	981.9
20°	969.6	966.8	966.3	963.7	980.0	1042.8	1194.7	1465.5	1448.8	1168.3	996.5
22.5°	1036.4	1033.1	1021.5	1011.1	1012.6	1048.2	1160.7	1439.6	1495.5	1205.3	1005.7
25°	1157.4	1152.0	1127.9	1093.0	1070.8	1085.9	1165.9	1405.4	1540.1	1234.3	1001.2
27.5°	1308.9	1301.8	1270.9	1219.0	1168.3	1149.9	1203.4	1381.8	1577.1	1256.5	991.6
30°	1457.3	1448.1	1417.6	1377.3	1303.2	1245.2	1271.1	1392.2	1621.2	1279.6	978.8
32.5°	1617.5	1608.7	1568.4	1518.4	1457.0	1378.9	1363.8	1442.9	1675.3	1311.9	969.9
35°	1820.1	1806.4	1749.1	1680.9	1615.8	1536.8	1489.4	1530.4	1747.2	1361.3	974.8
37.5°	2050.8	2032.4	1970.6	1876.5	1791.6	1703.1	1642.2	1650.7	1852.7	1427.3	990.2
40°	2268.4	2251.6	2194.5	2105.8	1999.2	1891.8	1827.0	1808.1	1998.2	1507.8	1017.0
42.5°	2398.8	2383.7	2359.7	2322.2	2232.3	2122.8	2040.9	2000.1	2170.5	1604.0	1049.8
45°	2406.1	2392.9	2425.2	2468.9	2451.2	2378.3	2278.5	2203.7	2343.4	1694.4	1083.8
47.5°	2289.1	2280.2	2378.3	2530.7	2606.7	2637.3	2545.3	2390.3	2486.1	1759.2	1097.7
50°	1970.2	1966.9	2168.8	2448.6	2665.9	2864.3	2826.8	2564.0	2596.8	1792.7	1084.5
52.5°	1708.3	1696.3	1814.0	2185.8	2579.8	2983.7	3101.9	2734.3	2674.1	1799.1	1053.6
55°	1295.7	1285.1	1432.7	1746.0	2302.1	2941.2	3303.1	2910.1	2729.6	1782.8	998.2
57.5°	695.0	688.4	875.0	1162.1	1799.6	2686.4	3339.4	3096.0	2776.3	1739.7	920.6
60°	270.6	269.4	339.3	563.8	1093.7	2185.6	3156.1	3207.6	2805.5	1686.6	855.7
62.5°	163.7	167.3	178.6	253.1	483.2	1357.7	2733.6	3080.6	2825.1	1638.0	802.1
65°	135.4	135.7	137.1	173.9	231.4	568.1	2057.9	2663.1	2776.8	1551.4	726.2
67.5°	116.1	118.2	123.6	138.0	163.3	249.1	1184.8	2062.9	2482.6	1349.9	607.7
70°	91.5	94.4	101.2	113.5	126.0	155.9	437.9	1372.6	1896.6	1017.5	459.6
72.5°	77.1	76.9	80.4	92.2	100.0	109.7	168.4	769.1	1102.2	485.8	227.4
75°	59.7	62.0	66.5	77.1	81.9	79.5	91.3	281.0	394.9	147.2	77.4
77.5°	46.7	48.6	52.6	63.0	67.7	56.4	52.6	100.5	126.9	52.8	34.9
80°	21.0	22.6	35.9	46.5	55.2	38.9	28.5	51.4	56.4	24.1	17.7
82.5°	3.8	6.4	21.0	24.5	28.3	25.2	14.9	26.7	27.6	9.7	6.1
85°	0.2	0.5	7.3	9.0	11.3	8.3	4.5	10.6	9.2	3.3	2.4
87.5°	0.0	0.0	0.0	0.2	0.2	1.2	1.4	1.9	1.4	1.2	0.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0
2.5°	907.1	873.6	841.1	814.4	798.8	772.4	754.9	752.1	744.8	751.2
5°	889.7	829.7	769.1	714.8	670.2	612.7	569.7	551.6	535.8	541.2
7.5°	881.4	786.8	692.4	599.7	504.4	412.4	344.0	315.4	293.7	296.8
10°	870.3	742.2	594.3	452.7	325.1	234.3	187.1	169.6	160.0	160.2
12.5°	861.8	688.9	480.3	306.9	197.9	149.6	134.9	130.7	127.9	128.1
15°	857.6	626.1	367.8	204.5	141.6	126.7	123.1	121.3	119.4	119.1
17.5°	850.5	556.3	269.2	149.3	123.9	118.7	115.6	113.5	111.1	110.6
20°	839.9	477.0	196.8	126.2	116.1	112.1	107.8	105.0	102.2	101.7
22.5°	820.3	393.3	151.2	116.8	110.4	105.9	100.7	97.4	94.6	94.1
25°	784.0	314.7	127.4	110.9	105.5	100.0	94.4	89.9	87.3	86.8
27.5°	738.0	247.2	115.6	105.5	99.1	94.1	87.8	83.5	81.2	80.7
30°	683.7	190.4	108.8	99.3	91.5	87.3	81.6	78.1	76.7	76.7
32.5°	625.2	152.2	105.9	93.2	84.9	80.2	75.7	74.3	73.8	73.6
35°	570.2	132.1	104.5	88.2	79.0	74.6	72.7	72.9	73.8	73.8
37.5°	521.4	125.7	103.8	84.7	73.8	69.8	71.0	73.1	72.2	72.2
40°	477.3	126.5	103.3	82.1	69.6	67.2	69.6	67.9	65.6	65.3
42.5°	443.5	132.4	102.4	80.0	67.0	65.3	64.4	61.8	61.6	62.0
45°	419.0	137.5	102.2	79.0	64.2	61.1	59.9	57.3	62.0	63.2
47.5°	390.0	137.5	102.2	75.7	59.5	58.3	56.4	53.6	58.3	59.5
50°	352.5	128.8	98.1	72.0	55.7	55.0	51.7	48.1	47.2	47.9
52.5°	305.0	113.0	88.0	66.8	51.9	50.5	46.5	43.9	43.2	43.2
55°	251.0	94.6	74.3	59.2	47.9	45.3	42.5	41.3	40.6	40.1
57.5°	204.1	77.6	59.7	52.6	44.1	40.8	39.9	38.5	37.3	36.6
60°	167.5	61.1	49.3	46.7	40.3	37.3	37.0	35.2	32.1	31.6
62.5°	129.3	44.8	41.5	40.6	36.6	34.0	33.5	29.7	25.0	24.1
65°	91.3	34.9	33.5	35.6	32.6	30.2	29.0	23.4	18.4	17.7
67.5°	64.2	29.3	26.4	31.1	28.3	25.2	24.5	19.8	15.3	14.9
70°	45.8	23.8	21.7	26.7	22.6	22.2	20.8	16.5	12.5	12.0
72.5°	32.3	18.2	16.8	23.1	15.6	19.1	17.0	12.7	9.4	9.0
75°	23.8	13.0	11.8	13.4	11.3	14.4	12.0	8.5	5.9	5.7
77.5°	17.5	8.3	7.1	6.6	6.6	9.0	6.6	3.5	2.6	2.4
80°	12.3	3.8	3.3	2.8	2.6	2.1	0.9	0.5	0.2	0.2
82.5°	7.3	1.7	1.7	1.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	1.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)