

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: P944875

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564 lumens
Efficiency: N/A
Efficacy: 147.7 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



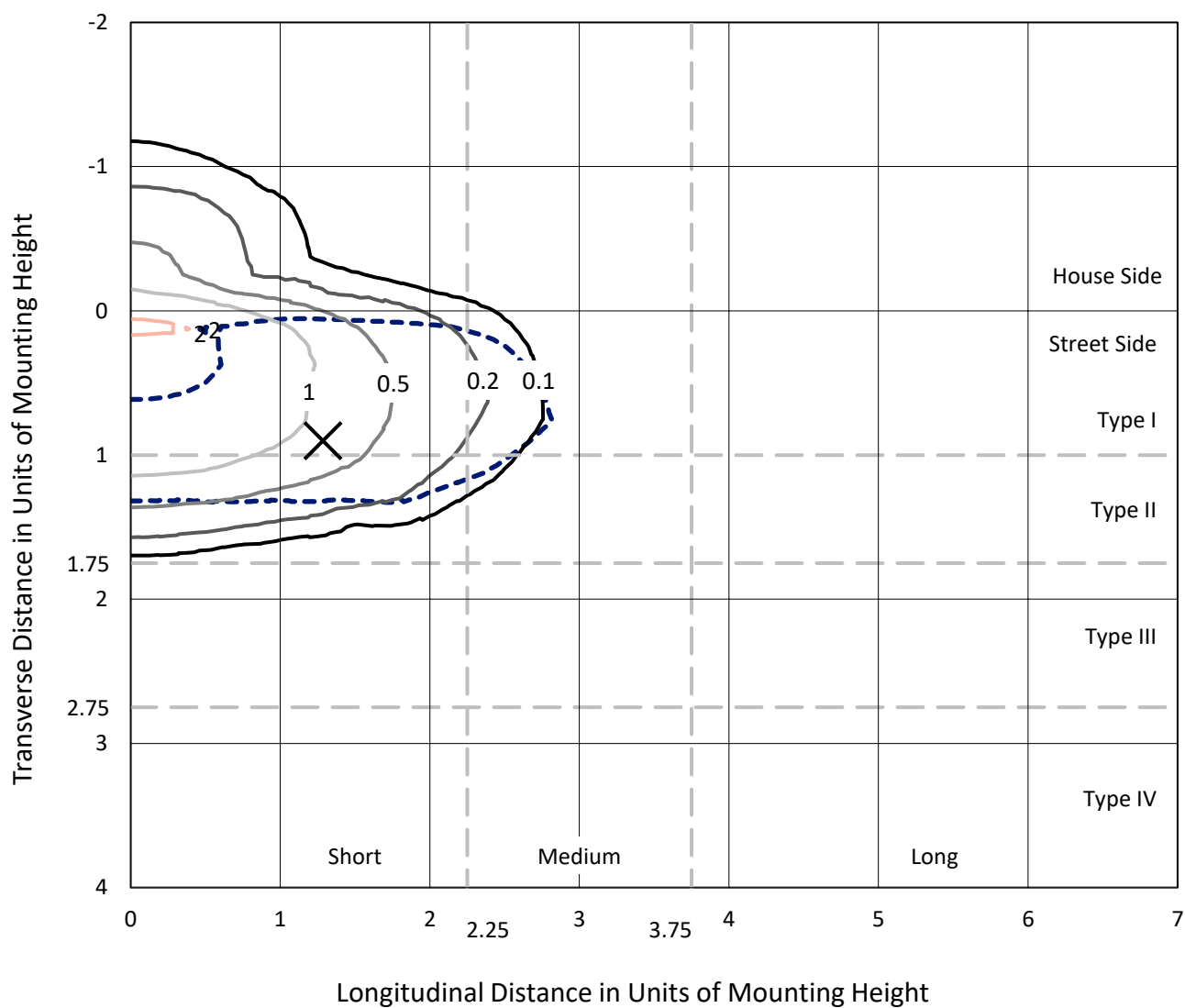
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

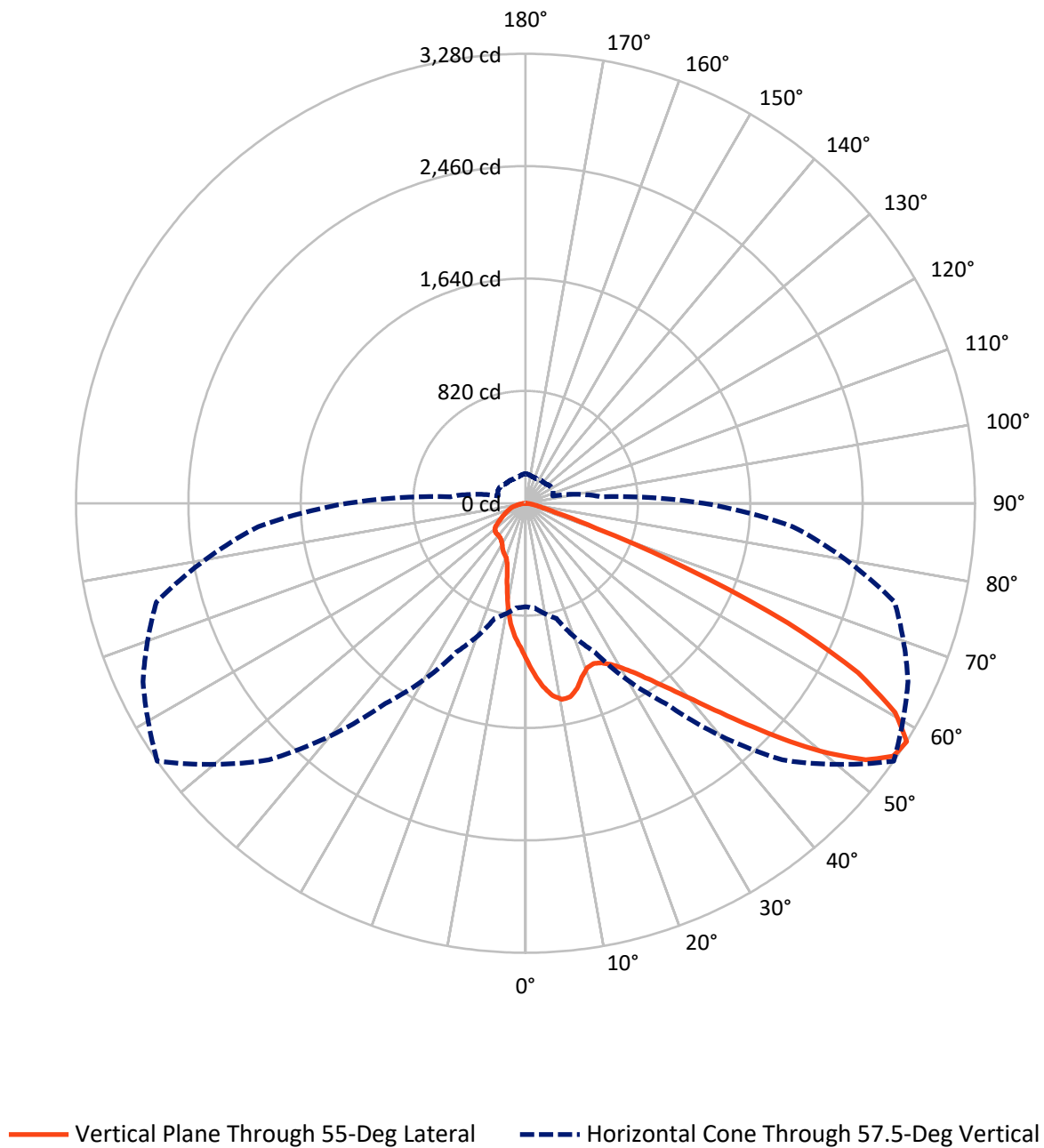


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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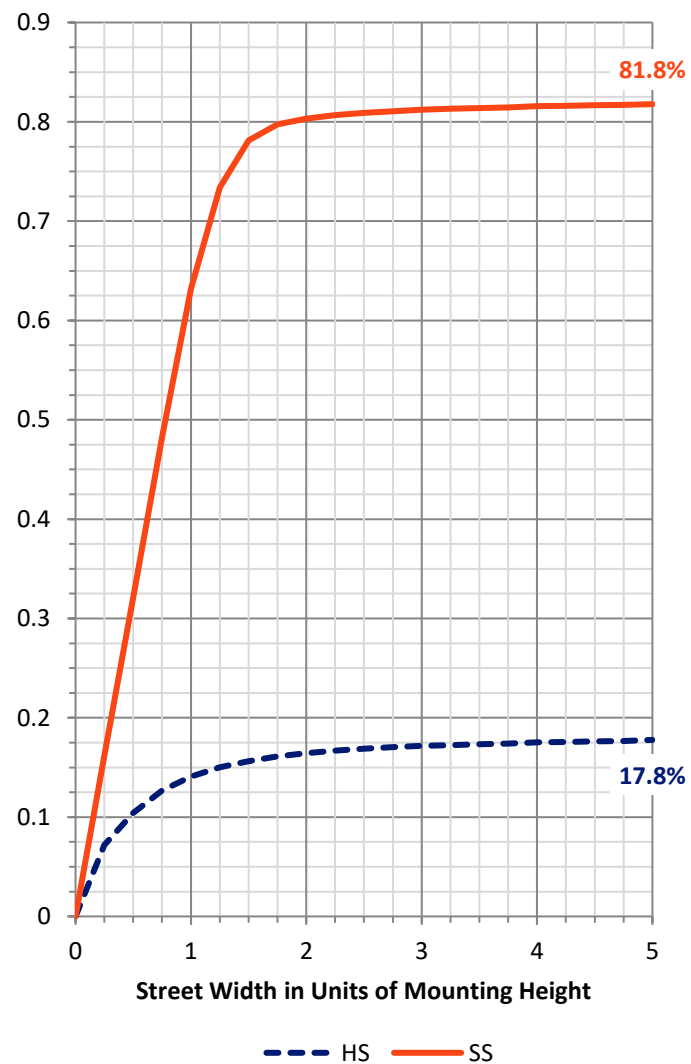
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.8	0.0	825.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3738.2	0.0	3738.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	4564.0	0.0	4564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	2.3
10°-20°	267.8	5.9
20°-30°	427.4	9.4
30°-40°	676.7	14.8
40°-50°	1035.7	22.7
50°-60°	1109.4	24.3
60°-70°	697.9	15.3
70°-80°	206.4	4.5
80°-90°	36.5	0.8
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°	4564.0	100.0
0°-180°	4564.0	100.0

Coefficient of Utilization



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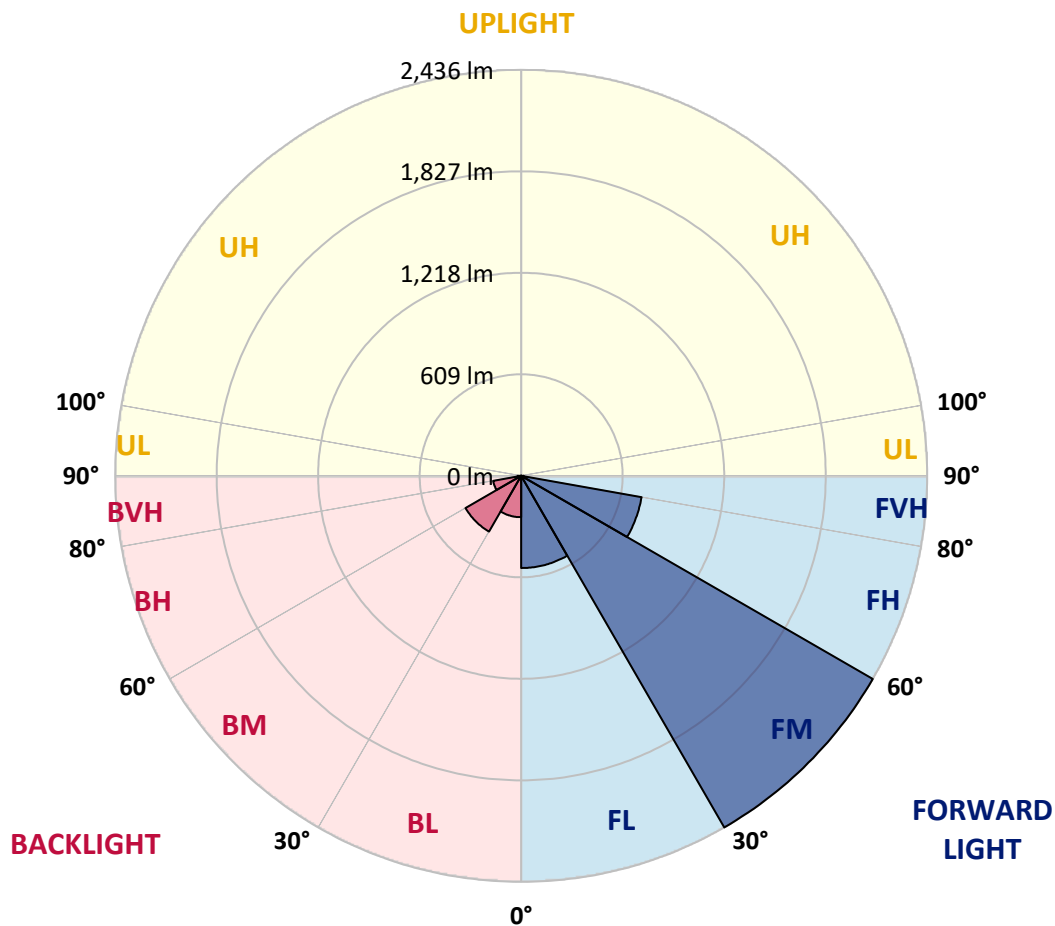
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.2	12.1			
FM	(30°-60°)	2435.8	53.4			
FH	(60°-80°)	733.8	16.1			G1/1800
FVH	(80°-90°)	15.4	0.3			G1/100
BL	(0°-30°)	248.2	5.4	B1/500		
BM	(30°-60°)	386.0	8.5	B1/1000		
BH	(60°-80°)	170.6	3.7	B1/500		G1/500
BVH	(80°-90°)	21.1	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1312.0	1311.1	1316.3	1298.6	1286.6	1270.3	1248.8	1221.4	1192.0	1160.8	1147.4
5°	1430.3	1422.0	1427.4	1414.2	1401.0	1376.5	1344.6	1300.0	1245.5	1183.5	1150.4
7.5°	1411.6	1406.0	1419.9	1431.7	1441.6	1438.5	1415.2	1368.4	1298.1	1208.0	1160.1
10°	1261.3	1255.0	1274.5	1315.4	1375.3	1427.4	1455.7	1426.7	1351.9	1234.9	1169.5
12.5°	1128.7	1125.7	1138.6	1171.7	1238.2	1338.2	1450.5	1477.7	1407.8	1266.7	1182.3
15°	1072.1	1068.3	1076.6	1093.3	1135.8	1229.0	1403.4	1512.6	1462.8	1303.6	1202.6
17.5°	1059.6	1055.3	1058.9	1067.6	1095.0	1166.0	1332.1	1529.8	1520.1	1344.6	1219.6
20°	1082.7	1079.2	1079.7	1079.2	1098.3	1154.7	1282.6	1523.2	1570.2	1382.4	1236.1
22.5°	1138.6	1132.7	1133.0	1120.5	1130.8	1174.5	1269.6	1505.5	1614.8	1415.4	1248.6
25°	1229.7	1219.1	1221.2	1189.4	1186.5	1218.9	1289.9	1491.8	1659.1	1441.8	1250.9
27.5°	1354.3	1342.2	1335.9	1288.5	1265.8	1281.8	1331.2	1496.6	1701.1	1464.7	1245.0
30°	1510.0	1495.4	1482.4	1415.2	1374.1	1368.2	1395.3	1527.7	1750.7	1488.8	1234.9
32.5°	1700.9	1683.9	1660.3	1571.1	1513.3	1482.4	1478.4	1583.1	1808.7	1519.4	1229.7
35°	1928.1	1905.9	1872.4	1757.0	1683.9	1620.7	1587.9	1663.1	1888.2	1565.7	1235.6
37.5°	2162.1	2137.1	2106.5	1969.1	1879.2	1786.0	1721.4	1771.7	1994.1	1628.4	1251.2
40°	2378.0	2349.9	2321.4	2199.2	2102.7	1990.4	1884.9	1909.0	2123.7	1703.5	1277.6
42.5°	2505.4	2484.7	2473.8	2407.7	2333.2	2219.2	2088.3	2071.8	2269.2	1789.8	1307.8
45°	2499.8	2491.3	2524.8	2552.1	2534.4	2471.2	2326.6	2251.8	2415.3	1864.6	1335.6
47.5°	2366.2	2371.9	2446.7	2600.5	2668.2	2701.3	2597.9	2428.5	2542.2	1920.5	1348.1
50°	2002.9	2007.6	2180.8	2512.5	2702.7	2888.8	2867.1	2601.0	2640.6	1954.7	1345.3
52.5°	1715.3	1718.3	1792.7	2251.6	2588.9	2983.2	3109.7	2763.5	2712.6	1964.2	1329.5
55°	1292.0	1302.6	1385.9	1766.5	2293.1	2908.4	3257.4	2931.1	2758.1	1965.1	1313.0
57.5°	754.8	766.3	869.2	1199.0	1782.3	2647.7	3279.8	3079.7	2789.0	1957.6	1303.1
60°	369.7	374.7	419.5	630.2	1099.0	2145.4	3099.5	3151.7	2806.2	1953.6	1302.6
62.5°	249.2	248.4	250.3	311.0	541.5	1378.3	2723.9	3025.7	2797.0	1938.2	1297.9
65°	214.2	211.6	204.6	218.2	280.5	630.4	2104.6	2649.6	2727.0	1899.8	1265.6
67.5°	185.2	185.4	185.7	181.4	200.3	290.9	1286.1	2087.1	2475.5	1717.6	1141.0
70°	153.4	155.5	156.4	156.4	163.3	190.9	549.0	1430.5	1952.6	1346.7	919.0
72.5°	139.7	135.2	135.7	133.3	133.3	145.3	221.1	810.9	1230.2	757.6	560.8
75°	114.0	116.8	117.3	115.6	110.2	110.9	131.2	340.2	526.4	314.3	277.2
77.5°	98.4	98.4	99.3	98.2	93.9	83.1	87.5	131.9	179.1	128.8	138.5
80°	79.0	78.8	82.8	85.2	78.6	61.3	55.9	72.9	79.5	56.6	72.0
82.5°	38.5	40.8	56.9	64.9	59.7	44.4	34.2	45.3	42.5	25.0	32.3
85°	22.4	21.2	25.5	36.1	34.2	24.5	16.5	23.6	22.2	12.7	13.0
87.5°	7.1	6.6	5.2	12.3	9.9	6.8	4.5	6.8	6.1	2.8	2.8
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°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1130.6	1102.8	1075.2	1049.9	1034.6	1024.7	1014.8	1003.7	999.4	993.1
5°	1119.3	1065.5	1017.6	976.3	938.8	909.3	879.6	855.5	844.7	852.0
7.5°	1112.7	1034.8	961.0	885.2	812.3	754.1	703.3	667.7	651.7	655.7
10°	1106.8	1000.1	887.6	768.0	663.2	591.0	539.1	512.0	501.8	504.0
12.5°	1101.4	961.2	799.1	641.8	530.4	482.7	467.9	468.1	470.0	471.4
15°	1100.4	914.3	700.3	531.3	458.7	455.6	471.6	481.8	487.2	488.9
17.5°	1099.0	858.1	599.5	456.1	441.2	462.0	476.8	483.4	487.7	487.9
20°	1093.3	786.9	506.6	420.2	437.4	455.4	464.6	469.8	473.3	474.5
22.5°	1075.9	707.6	434.1	404.2	422.3	436.7	447.6	453.5	455.6	457.0
25°	1044.5	618.9	384.1	388.8	401.3	419.5	428.2	429.4	428.7	430.8
27.5°	1003.4	523.8	353.0	368.1	384.1	399.7	404.4	403.7	402.3	404.6
30°	953.9	438.4	333.1	344.7	366.6	380.8	385.1	383.4	380.6	383.2
32.5°	901.5	368.5	316.9	328.4	352.3	366.2	370.4	368.8	366.6	368.8
35°	852.7	319.7	301.8	317.6	340.9	354.6	360.0	360.3	360.3	362.9
37.5°	807.9	291.1	289.3	310.7	333.1	345.4	353.2	353.7	343.5	344.2
40°	766.3	279.1	283.6	306.2	325.6	337.4	337.9	311.4	292.8	292.3
42.5°	732.4	276.8	285.2	305.8	320.2	320.6	287.4	266.8	261.7	261.9
45°	700.5	276.0	289.0	305.8	312.1	277.0	254.6	249.2	249.6	251.5
47.5°	664.9	273.2	289.7	301.5	289.0	246.3	239.7	237.4	236.4	236.9
50°	625.9	263.1	280.8	293.0	249.4	233.1	224.8	224.1	225.3	226.0
52.5°	584.9	246.6	265.4	277.7	231.2	221.5	212.3	214.0	219.2	220.8
55°	558.0	227.2	245.1	247.0	218.5	210.7	202.9	206.7	216.4	219.4
57.5°	550.9	206.7	222.0	219.9	202.2	201.3	196.5	199.8	212.1	216.6
60°	548.8	188.3	199.4	197.7	186.4	190.9	189.7	191.3	195.6	197.0
62.5°	532.3	173.7	179.1	176.7	172.2	180.0	182.9	179.3	182.6	184.3
65°	490.3	161.9	159.3	157.6	159.5	166.6	172.2	165.2	168.2	172.9
67.5°	420.9	145.8	138.7	140.6	146.5	150.3	157.6	149.6	152.2	160.2
70°	340.5	125.5	119.1	124.6	130.2	138.0	139.2	133.8	139.9	148.9
72.5°	240.9	105.0	100.5	111.6	113.5	123.6	121.0	118.4	126.9	130.0
75°	167.0	84.7	82.1	90.6	97.4	106.2	104.3	107.4	125.3	126.7
77.5°	105.7	65.8	64.2	69.6	79.0	88.7	91.8	126.7	214.0	222.5
80°	61.3	49.1	47.2	51.4	59.7	68.7	88.5	155.5	141.1	139.4
82.5°	34.2	33.7	31.4	32.6	39.9	49.5	125.0	109.5	88.9	91.8
85°	16.0	19.8	17.0	16.3	22.4	58.0	83.5	62.5	41.5	40.6
87.5°	4.2	3.8	3.8	4.2	9.4	50.0	33.3	26.7	15.8	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)