

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: P938904

Luminaire Tested: **GALN-SB1B-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4113 lumens
Efficiency: N/A
Efficacy: 103.3 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

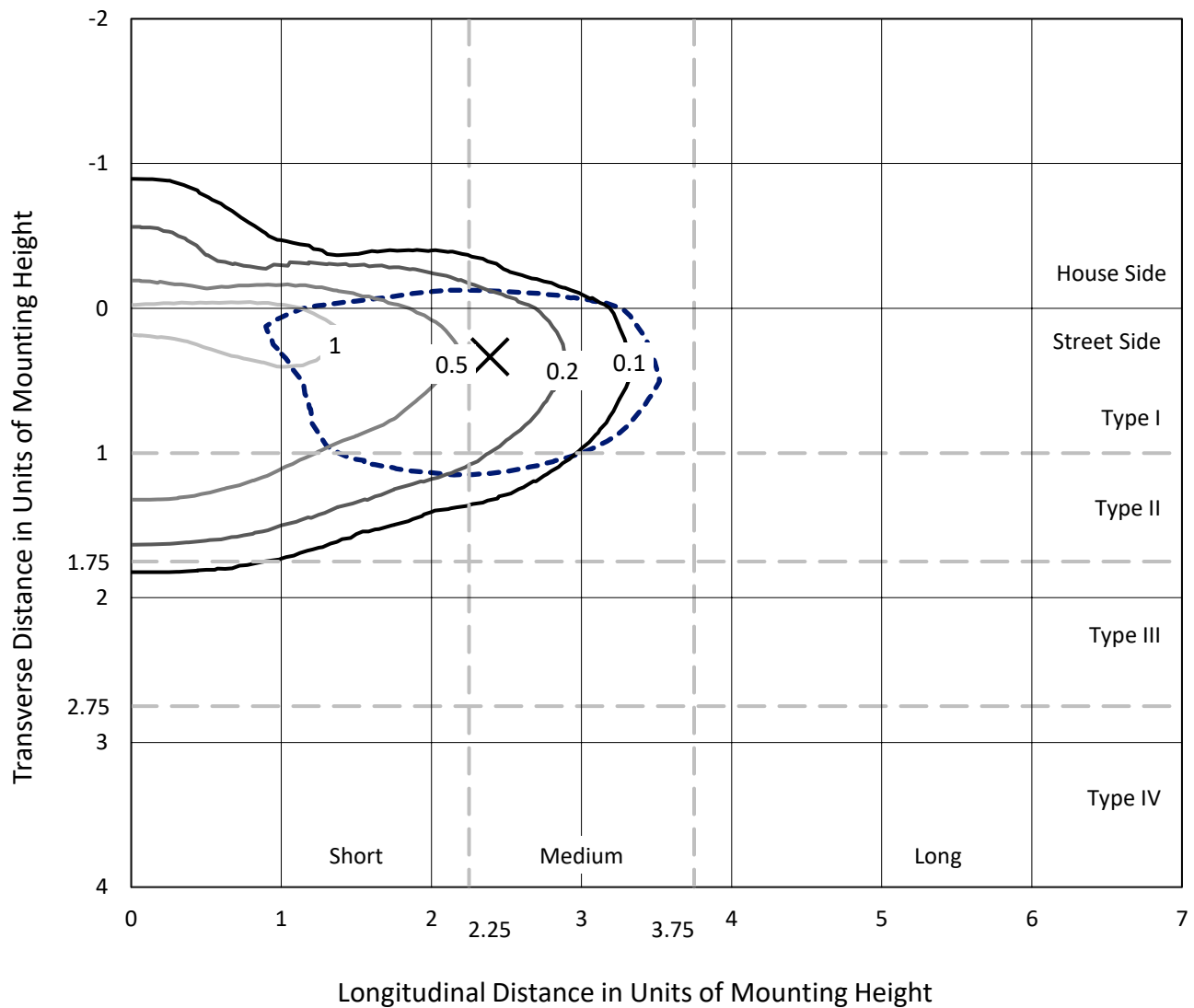


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

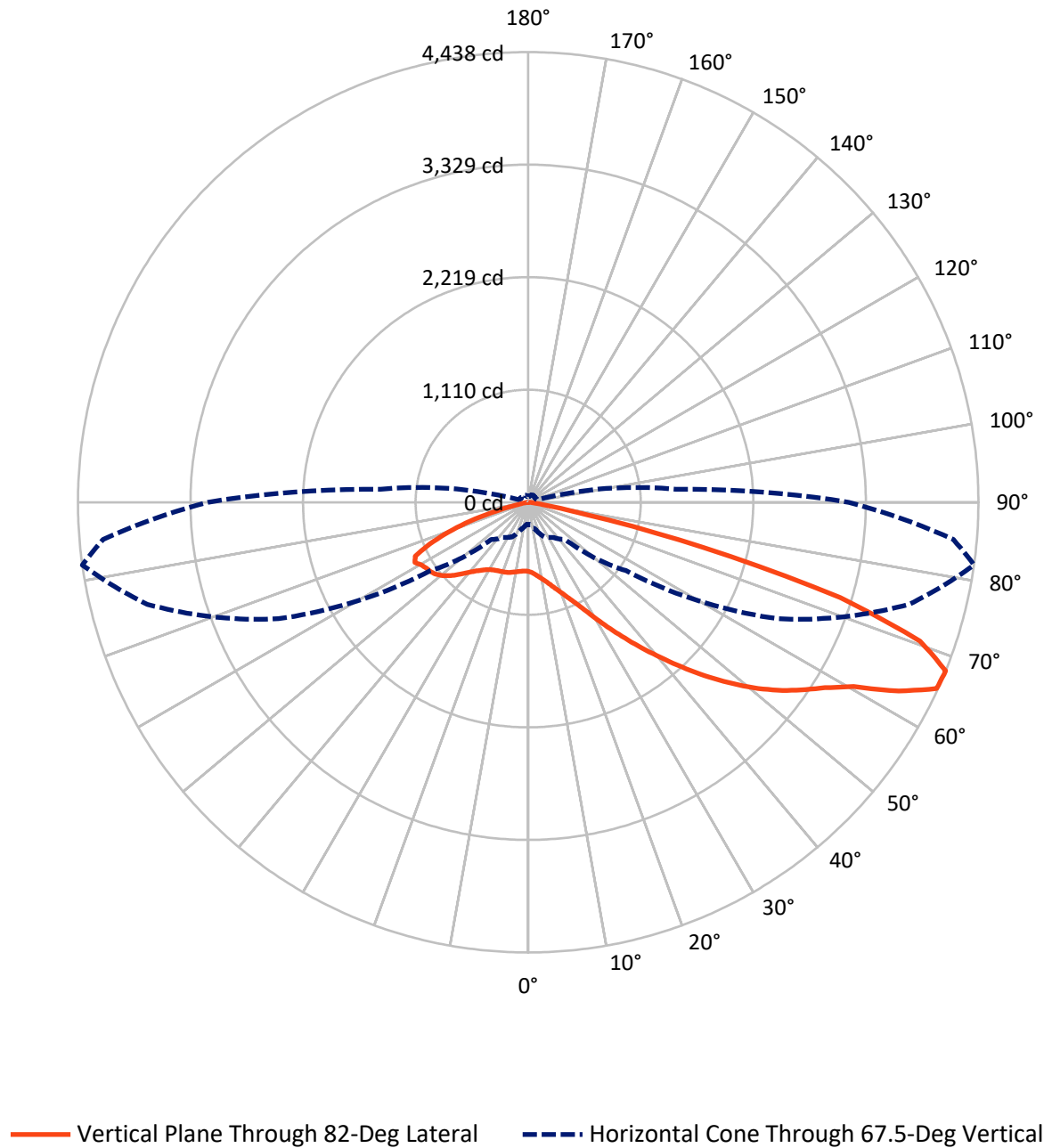


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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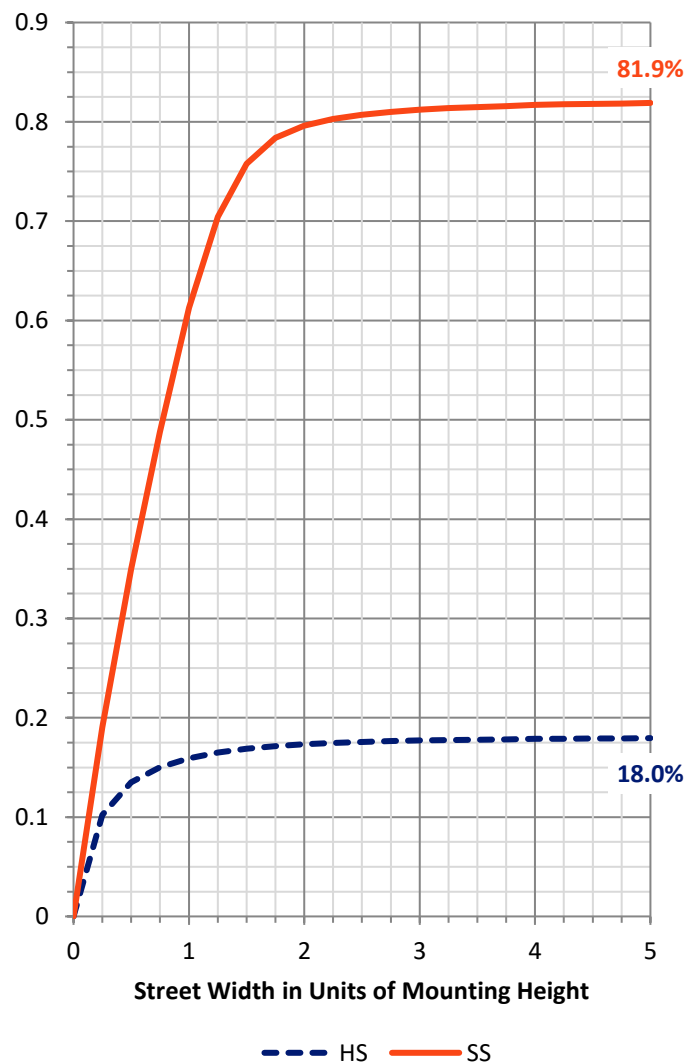
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.0	0.0	745.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3368.0	0.0	3368.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	4113.0	0.0	4113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.5
10°-20°	157.8	3.8
20°-30°	252.7	6.1
30°-40°	446.8	10.9
40°-50°	782.8	19.0
50°-60°	1044.1	25.4
60°-70°	972.0	23.6
70°-80°	373.1	9.1
80°-90°	23.2	0.6
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°	4113.0	100.0
0°-180°	4113.0	100.0

Coefficient of Utilization



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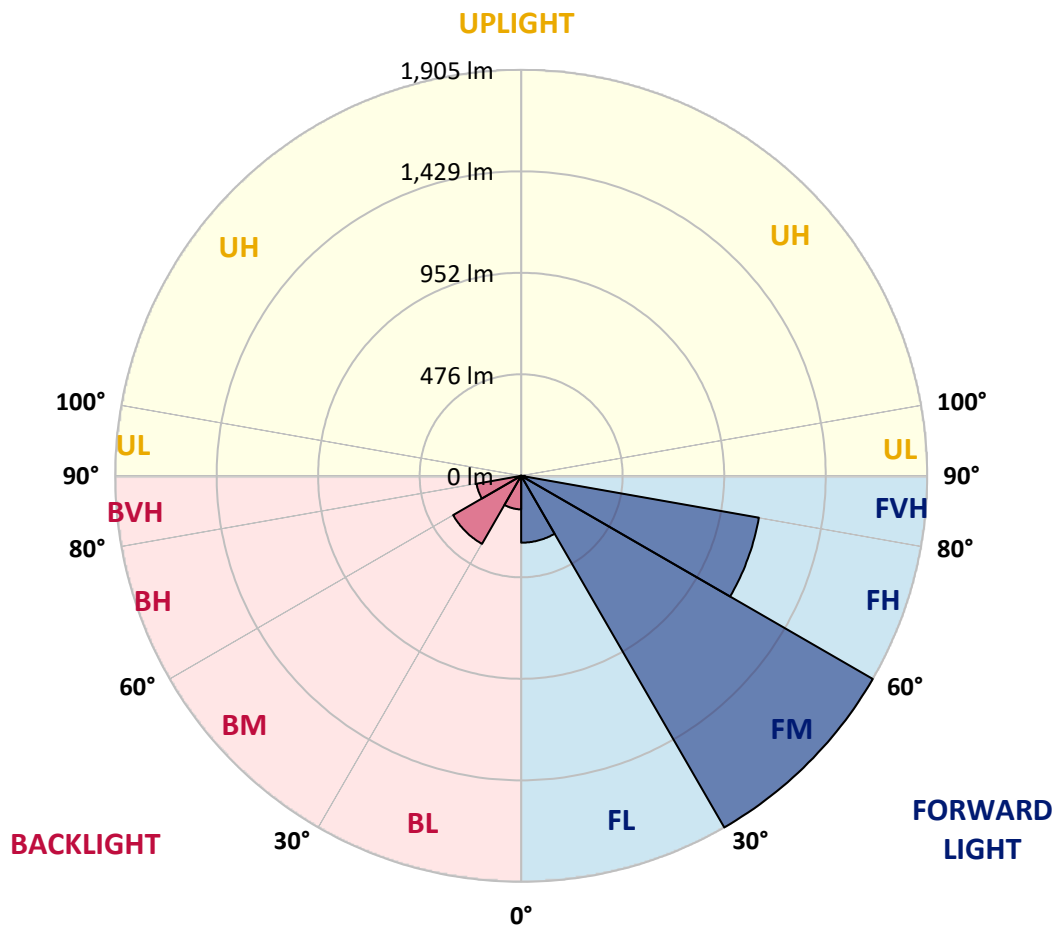
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.8	7.6			
FM	(30°-60°)	1905.0	46.3			
FH	(60°-80°)	1132.4	27.5			G1/1800
FVH	(80°-90°)	16.8	0.4			G1/100
BL	(0°-30°)	157.3	3.8	B1/500		
BM	(30°-60°)	368.7	9.0	B1/1000		
BH	(60°-80°)	212.7	5.2	B1/500		G1/500
BVH	(80°-90°)	6.3	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	720.2	724.3	722.0	720.8	718.7	715.7	713.4	706.0	698.3	693.2	691.5
5°	734.7	738.8	738.5	739.7	741.2	742.1	741.5	733.2	722.3	713.7	708.6
7.5°	722.3	727.0	730.8	736.8	747.1	758.1	763.4	761.6	750.4	738.5	732.3
10°	687.0	692.0	701.2	715.1	737.1	760.7	780.6	789.8	782.7	769.6	761.0
12.5°	622.5	627.5	645.6	675.8	712.5	753.6	791.5	816.1	817.9	804.9	794.8
15°	549.9	554.9	574.2	612.1	668.1	734.1	797.5	844.0	859.7	848.4	836.3
17.5°	504.9	509.3	523.8	554.3	612.7	695.0	795.4	873.6	909.4	900.5	886.0
20°	491.3	495.1	501.9	523.3	571.8	654.4	781.8	901.4	963.0	958.0	941.7
22.5°	505.8	509.3	511.4	520.9	551.4	627.8	764.6	929.8	1025.2	1025.8	1005.9
25°	539.2	542.8	540.4	546.4	559.7	619.5	758.1	963.3	1103.4	1109.9	1087.4
27.5°	594.3	594.6	589.0	588.7	590.8	631.9	764.9	999.1	1202.0	1214.1	1186.3
30°	704.8	700.3	678.7	655.3	644.7	669.2	783.8	1041.5	1318.4	1340.0	1305.0
32.5°	875.1	868.5	828.9	772.9	716.6	729.4	817.9	1089.7	1445.1	1484.2	1441.5
35°	1059.8	1058.1	1016.6	933.4	835.1	814.9	873.3	1153.1	1583.4	1645.6	1594.9
37.5°	1231.6	1230.7	1207.0	1109.0	989.4	934.3	962.1	1236.0	1731.4	1821.5	1761.7
40°	1388.5	1391.2	1367.5	1279.9	1159.3	1087.4	1082.9	1338.5	1896.1	2013.1	1942.0
42.5°	1524.2	1527.1	1503.1	1438.3	1327.2	1256.8	1231.3	1464.0	2056.9	2218.9	2134.8
45°	1616.3	1634.6	1631.1	1579.2	1499.6	1426.4	1409.6	1621.6	2240.2	2437.1	2338.5
47.5°	1642.3	1659.2	1685.8	1692.9	1644.4	1572.4	1592.6	1811.4	2425.6	2655.7	2543.4
50°	1578.1	1593.7	1649.1	1722.9	1756.6	1734.4	1770.5	2014.8	2615.4	2873.6	2744.5
52.5°	1451.3	1467.3	1537.2	1653.9	1791.6	1861.4	1949.1	2215.3	2799.3	3080.0	2934.9
55°	1268.0	1284.9	1374.6	1506.7	1724.9	1913.9	2098.0	2415.5	2967.8	3265.7	3106.7
57.5°	1018.7	1031.1	1124.4	1309.2	1557.3	1861.7	2207.9	2634.0	3126.5	3448.1	3276.9
60°	663.9	674.9	783.3	989.4	1279.6	1687.6	2229.8	2877.7	3337.3	3685.3	3506.4
62.5°	441.5	448.9	513.2	664.5	901.1	1353.3	2101.6	3072.3	3646.5	4098.1	3900.0
65°	302.9	310.3	374.6	480.0	582.2	895.2	1732.9	3046.5	3926.6	4425.9	4191.7
67.5°	216.2	222.4	276.9	376.4	421.4	520.0	1174.7	2717.2	3886.4	4438.3	4207.4
70°	154.9	158.4	203.4	293.2	334.9	312.4	653.3	2078.2	3402.8	4098.4	3886.9
72.5°	108.4	109.6	141.3	223.3	269.8	228.0	310.9	1385.6	2573.6	3216.8	3013.4
75°	73.4	74.9	95.1	163.8	216.5	174.1	164.6	743.0	1510.8	1780.6	1596.1
77.5°	45.0	45.6	61.3	111.9	162.0	132.7	106.0	314.8	584.6	573.9	489.2
80°	25.5	25.5	39.1	69.6	110.5	85.6	74.3	133.8	185.1	162.6	143.3
82.5°	14.2	14.5	28.4	43.2	73.1	50.6	40.9	61.9	80.0	70.8	61.6
85°	5.9	6.5	17.5	20.4	34.9	25.2	16.6	26.1	29.6	26.4	19.2
87.5°	0.6	0.9	5.3	3.8	4.1	5.0	2.4	5.0	4.1	4.1	3.0
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°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	685.8	681.4	670.1	657.1	639.9	631.6	620.4	612.7	606.2	606.8	600.8
5°	699.2	687.9	662.7	631.3	592.3	564.4	534.8	514.4	497.8	494.2	486.2
7.5°	717.5	699.7	655.6	599.1	533.0	483.0	438.3	409.5	389.1	382.6	376.1
10°	741.2	715.4	646.4	558.5	463.4	399.8	351.8	329.3	315.4	310.6	307.1
12.5°	768.7	733.5	634.3	509.0	391.8	330.5	300.0	288.7	284.3	282.8	281.9
15°	803.4	756.0	615.9	450.4	331.1	288.1	275.1	273.6	274.2	273.6	273.3
17.5°	844.6	780.6	586.0	390.0	290.2	266.5	261.8	263.0	264.4	264.1	263.6
20°	889.6	804.9	547.8	336.4	262.4	251.1	248.4	249.6	250.8	250.2	249.9
22.5°	940.8	830.9	505.5	294.6	243.7	236.9	233.9	234.2	234.2	233.1	232.5
25°	1002.1	859.7	461.1	265.0	229.5	224.2	220.6	219.4	217.7	214.1	213.5
27.5°	1075.2	890.2	418.4	244.3	218.2	213.2	209.1	206.1	201.7	195.7	195.1
30°	1157.6	927.2	382.3	231.3	209.4	204.3	199.6	195.1	188.6	181.2	180.6
32.5°	1254.4	966.8	355.9	222.7	201.4	196.0	190.4	185.1	178.0	170.6	170.9
35°	1369.9	1014.8	340.5	216.8	195.1	188.0	181.8	175.9	170.6	164.1	163.5
37.5°	1495.1	1065.8	335.8	213.8	191.0	180.0	172.9	168.8	168.2	164.3	164.1
40°	1632.2	1126.2	339.4	212.0	186.6	172.3	164.6	163.8	165.2	158.4	158.7
42.5°	1777.3	1197.8	345.3	210.0	180.3	164.6	157.2	157.2	156.1	146.6	146.6
45°	1934.3	1280.4	351.2	204.9	172.9	156.9	151.3	149.2	144.2	135.0	134.7
47.5°	2092.4	1364.5	355.6	195.7	164.1	150.4	145.4	140.7	133.3	125.0	124.7
50°	2242.6	1440.1	350.9	182.1	154.0	144.2	138.9	132.4	124.4	118.7	117.9
52.5°	2376.7	1505.5	330.8	166.1	143.3	137.7	133.0	126.1	119.6	113.7	113.1
55°	2493.4	1558.5	295.2	151.0	133.8	132.1	127.3	118.7	109.9	104.8	104.2
57.5°	2605.3	1598.8	250.8	138.6	125.3	125.9	118.7	111.0	102.8	97.4	96.8
60°	2754.3	1652.7	205.8	127.0	116.1	117.9	110.2	104.5	94.2	87.4	86.5
62.5°	2992.3	1736.5	163.5	112.8	105.4	106.0	102.8	95.9	83.5	75.5	74.9
65°	3181.3	1705.7	128.8	97.4	93.3	94.2	94.2	86.8	73.4	64.3	63.4
67.5°	3160.0	1460.5	102.8	82.3	81.7	82.3	84.4	78.2	65.1	57.7	56.6
70°	2910.9	1161.7	82.3	68.4	71.1	69.6	75.5	71.4	58.6	51.2	50.3
72.5°	2375.2	836.9	62.8	56.6	54.5	56.9	68.1	64.3	48.9	40.6	39.7
75°	1387.9	446.6	46.8	44.7	39.4	47.4	60.4	54.8	37.3	29.9	29.0
77.5°	451.9	155.8	34.4	32.9	29.3	38.2	51.5	46.2	30.5	23.7	22.8
80°	121.1	47.1	23.4	21.6	19.0	28.4	40.9	36.7	21.9	15.4	15.1
82.5°	48.6	19.8	13.6	12.1	10.4	19.5	32.3	29.6	16.3	9.8	9.8
85°	15.7	6.5	5.0	3.8	4.7	12.1	19.2	20.1	11.5	5.0	3.8
87.5°	2.1	0.9	0.9	1.2	0.9	2.1	5.9	5.6	3.3	0.6	0.0
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)