

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: P939074

Luminaire Tested: **GALN-SB1C-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939074
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-SB1C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5471 lumens
Efficiency: N/A
Efficacy: 100.6 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): 54.4
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

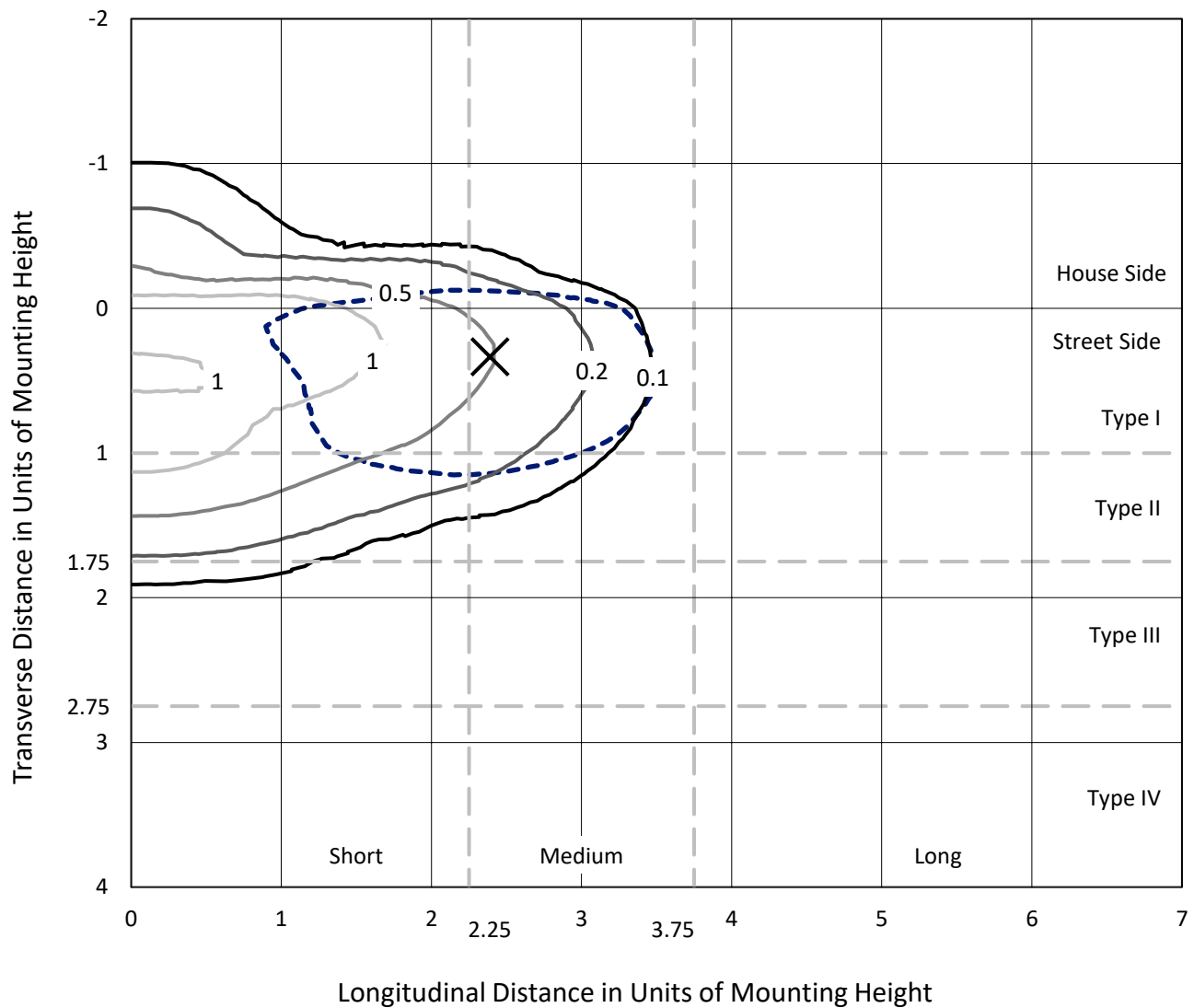


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

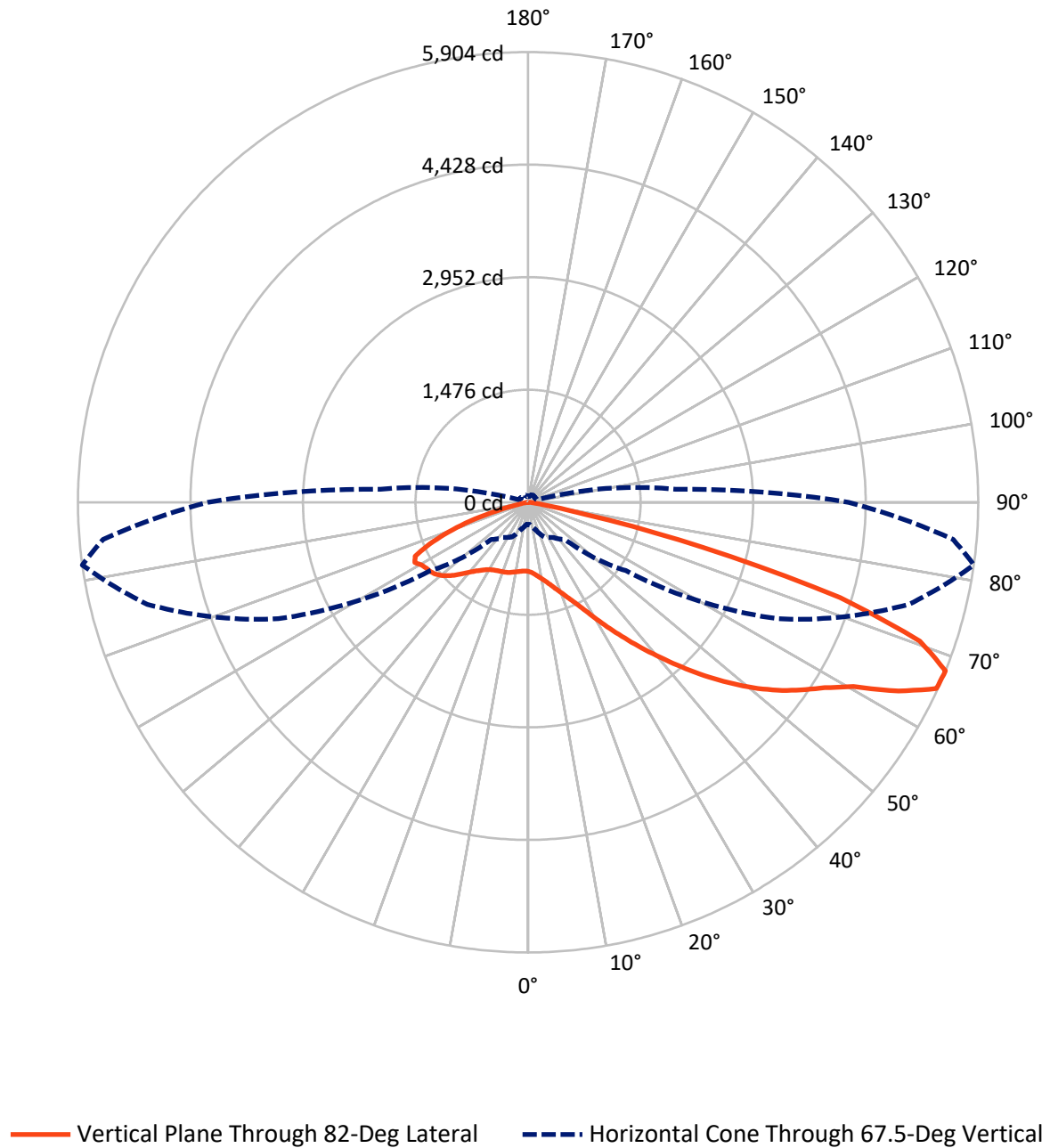


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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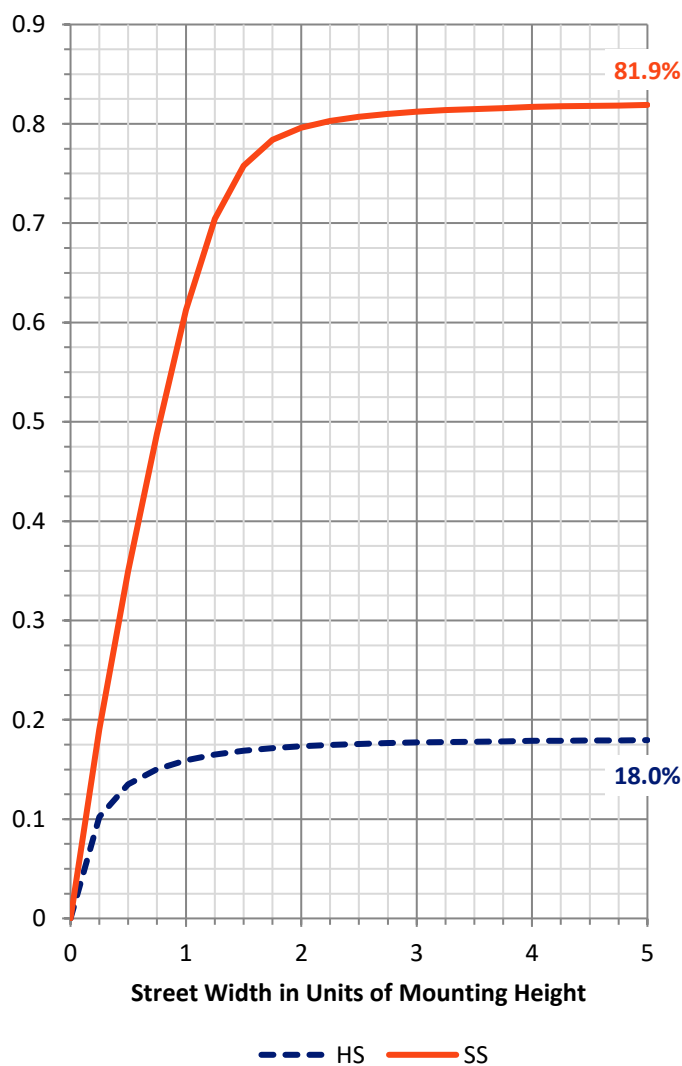
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.0	0.0	991.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4480.0	0.0	4480.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5471.0	0.0	5471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.5
10°-20°	209.8	3.8
20°-30°	336.1	6.1
30°-40°	594.3	10.9
40°-50°	1041.3	19.0
50°-60°	1388.8	25.4
60°-70°	1292.9	23.6
70°-80°	496.2	9.1
80°-90°	30.8	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°	5471.0	100.0
0°-180°	5471.0	100.0

Coefficient of Utilization



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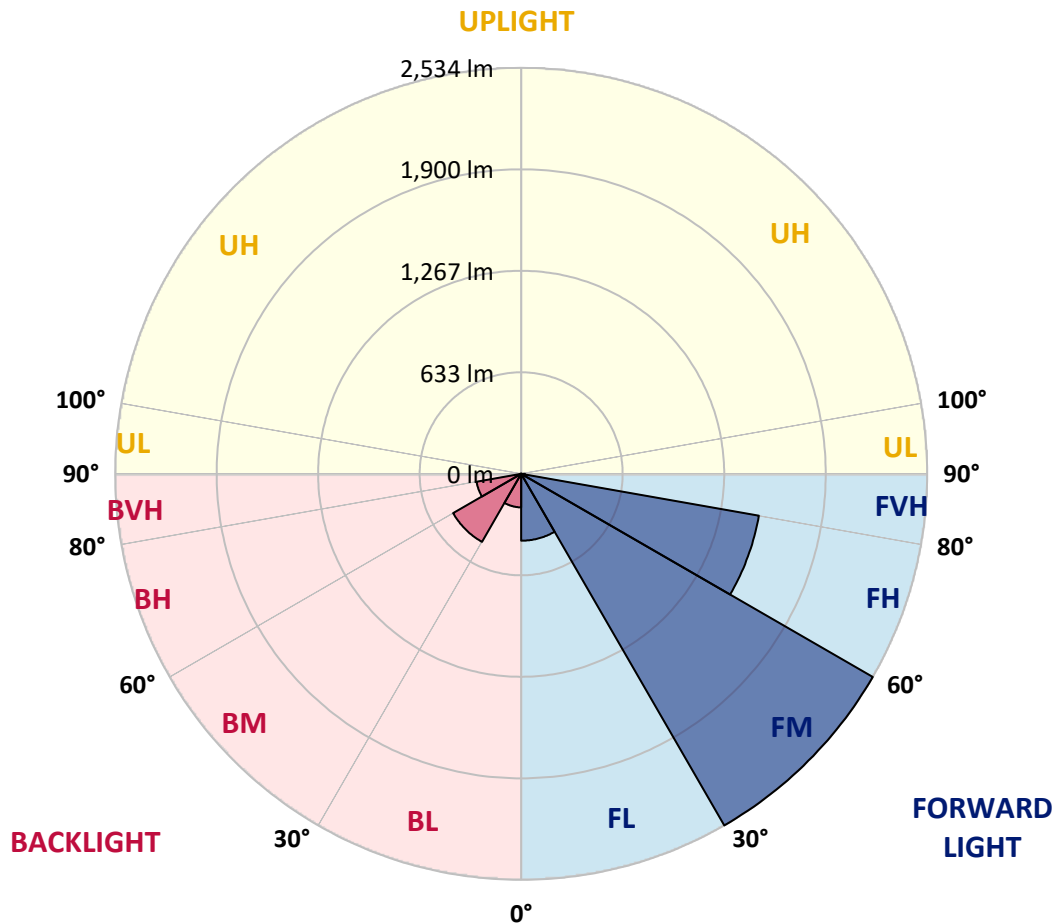
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.4	7.6			
FM	(30°-60°)	2533.9	46.3			
FH	(60°-80°)	1506.2	27.5			G1/1800
FVH	(80°-90°)	22.4	0.4			G1/100
BL	(0°-30°)	209.3	3.8	B1/500		
BM	(30°-60°)	490.5	9.0	B1/1000		
BH	(60°-80°)	282.9	5.2	B1/500		G1/500
BVH	(80°-90°)	8.4	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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	958.0	963.5	960.3	958.7	956.0	952.1	948.9	939.1	928.8	922.1	919.8
5°	977.3	982.8	982.4	984.0	985.9	987.1	986.3	975.3	960.7	949.3	942.6
7.5°	960.7	967.0	972.1	980.0	993.8	1008.4	1015.5	1013.1	998.1	982.4	974.1
10°	913.8	920.5	932.8	951.3	980.4	1011.9	1038.3	1050.5	1041.1	1023.7	1012.3
12.5°	828.0	834.7	858.7	898.9	947.7	1002.5	1052.9	1085.6	1087.9	1070.6	1057.2
15°	731.5	738.2	763.8	814.2	888.6	976.5	1060.8	1122.6	1143.5	1128.5	1112.4
17.5°	671.6	677.5	696.8	737.4	815.0	924.5	1058.0	1162.0	1209.7	1197.8	1178.5
20°	653.5	658.6	667.7	696.0	760.6	870.5	1039.9	1199.0	1281.0	1274.3	1252.6
22.5°	672.8	677.5	680.3	692.9	733.4	835.1	1017.0	1236.8	1363.7	1364.5	1338.1
25°	717.3	722.0	718.9	726.7	744.5	824.0	1008.4	1281.4	1467.7	1476.3	1446.4
27.5°	790.6	790.9	783.5	783.1	785.8	840.6	1017.4	1329.0	1598.8	1615.0	1578.0
30°	937.5	931.6	902.8	871.7	857.5	890.2	1042.6	1385.3	1753.6	1782.4	1735.9
32.5°	1164.0	1155.3	1102.5	1028.1	953.2	970.2	1087.9	1449.5	1922.2	1974.2	1917.5
35°	1409.8	1407.4	1352.3	1241.6	1110.8	1084.0	1161.6	1533.8	2106.2	2188.9	2121.5
37.5°	1638.2	1637.0	1605.5	1475.1	1316.0	1242.7	1279.8	1644.1	2303.1	2422.9	2343.3
40°	1847.0	1850.5	1819.0	1702.4	1542.1	1446.4	1440.5	1780.4	2522.1	2677.7	2583.2
42.5°	2027.4	2031.3	1999.4	1913.2	1765.5	1671.7	1637.8	1947.4	2736.0	2951.5	2839.6
45°	2149.9	2174.3	2169.6	2100.7	1994.7	1897.4	1875.0	2157.0	2979.8	3241.8	3110.6
47.5°	2184.6	2207.0	2242.5	2251.9	2187.3	2091.6	2118.4	2409.5	3226.4	3532.5	3383.2
50°	2099.1	2120.0	2193.6	2291.7	2336.6	2307.1	2355.1	2680.1	3478.9	3822.4	3650.6
52.5°	1930.5	1951.8	2044.7	2199.9	2383.1	2476.0	2592.6	2946.8	3723.5	4096.9	3903.9
55°	1686.7	1709.1	1828.5	2004.2	2294.5	2545.8	2790.8	3213.0	3947.6	4343.9	4132.4
57.5°	1355.0	1371.6	1495.6	1741.4	2071.5	2476.4	2936.9	3503.7	4158.8	4586.5	4358.9
60°	883.1	897.7	1041.9	1316.0	1702.0	2244.8	2966.1	3827.9	4439.2	4902.1	4664.1
62.5°	587.3	597.1	682.6	883.9	1198.6	1800.1	2795.5	4086.7	4850.5	5451.2	5187.6
65°	403.0	412.8	498.3	638.5	774.4	1190.8	2305.1	4052.4	5223.1	5887.2	5575.6
67.5°	287.5	295.8	368.3	500.6	560.5	691.7	1562.6	3614.4	5169.5	5903.7	5596.5
70°	206.0	210.7	270.6	390.0	445.5	415.6	868.9	2764.4	4526.3	5451.5	5170.3
72.5°	144.2	145.7	187.9	297.0	358.8	303.3	413.6	1843.0	3423.4	4278.9	4008.3
75°	97.7	99.7	126.4	217.8	287.9	231.6	219.0	988.3	2009.7	2368.5	2123.1
77.5°	59.9	60.7	81.5	148.9	215.5	176.5	141.0	418.7	777.6	763.4	650.7
80°	33.9	33.9	52.0	92.6	146.9	113.8	98.9	178.0	246.2	216.3	190.6
82.5°	18.9	19.3	37.8	57.5	97.3	67.4	54.4	82.3	106.4	94.1	81.9
85°	7.9	8.7	23.2	27.2	46.5	33.5	22.1	34.7	39.4	35.1	25.6
87.5°	0.8	1.2	7.1	5.1	5.5	6.7	3.2	6.7	5.5	5.5	3.9
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	912.3	906.4	891.4	874.1	851.2	840.2	825.2	815.0	806.3	807.1	799.2
5°	930.0	915.0	881.5	839.8	787.8	750.8	711.4	684.2	662.1	657.4	646.8
7.5°	954.4	930.8	872.1	796.9	709.0	642.4	583.0	544.8	517.6	508.9	500.3
10°	985.9	951.7	859.9	742.9	616.5	531.8	468.0	438.0	419.5	413.2	408.5
12.5°	1022.6	975.7	843.7	677.1	521.1	439.6	399.0	384.1	378.1	376.2	375.0
15°	1068.6	1005.6	819.3	599.1	440.4	383.3	365.9	364.0	364.7	364.0	363.6
17.5°	1123.4	1038.3	779.5	518.8	386.0	354.5	348.2	349.8	351.8	351.4	350.6
20°	1183.3	1070.6	728.7	447.5	349.0	334.0	330.5	332.1	333.6	332.8	332.5
22.5°	1251.4	1105.3	672.4	391.9	324.2	315.1	311.2	311.6	311.6	310.0	309.2
25°	1333.0	1143.5	613.3	352.5	305.3	298.2	293.5	291.9	289.5	284.8	284.0
27.5°	1430.2	1184.1	556.6	325.0	290.3	283.6	278.1	274.2	268.2	260.4	259.6
30°	1539.7	1233.3	508.5	307.6	278.5	271.8	265.5	259.6	250.9	241.1	240.3
32.5°	1668.6	1286.1	473.5	296.2	267.9	260.8	253.3	246.2	236.7	226.9	227.3
35°	1822.2	1349.9	453.0	288.3	259.6	250.1	241.9	234.0	226.9	218.2	217.4
37.5°	1988.8	1417.6	446.7	284.4	254.1	239.5	230.0	224.5	223.7	218.6	218.2
40°	2171.2	1498.0	451.4	282.0	248.2	229.2	219.0	217.8	219.8	210.7	211.1
42.5°	2364.2	1593.3	459.3	279.3	239.9	219.0	209.2	209.2	207.6	195.0	195.0
45°	2572.9	1703.2	467.2	272.6	230.0	208.8	201.3	198.5	191.8	179.6	179.2
47.5°	2783.3	1815.1	473.1	260.4	218.2	200.1	193.4	187.1	177.3	166.2	165.8
50°	2983.0	1915.5	466.8	242.2	204.8	191.8	184.7	176.1	165.4	158.0	156.8
52.5°	3161.4	2002.6	440.0	221.0	190.6	183.2	176.9	167.8	159.1	151.3	150.5
55°	3316.6	2073.1	392.7	200.9	178.0	175.7	169.4	158.0	146.1	139.4	138.7
57.5°	3465.5	2126.7	333.6	184.3	166.6	167.4	158.0	147.7	136.7	129.6	128.8
60°	3663.6	2198.3	273.8	169.0	154.4	156.8	146.5	139.0	125.3	116.2	115.0
62.5°	3980.3	2309.8	217.4	150.1	140.2	141.0	136.7	127.6	111.1	100.4	99.7
65°	4231.6	2268.9	171.3	129.6	124.1	125.3	125.3	115.4	97.7	85.5	84.3
67.5°	4203.3	1942.7	136.7	109.5	108.7	109.5	112.3	104.0	86.7	76.8	75.2
70°	3872.0	1545.3	109.5	91.0	94.5	92.6	100.4	94.9	78.0	68.1	67.0
72.5°	3159.5	1113.2	83.5	75.2	72.5	75.6	90.6	85.5	65.0	54.0	52.8
75°	1846.2	594.0	62.2	59.5	52.4	63.0	80.4	72.9	49.6	39.8	38.6
77.5°	601.1	207.2	45.7	43.7	39.0	50.8	68.5	61.4	40.6	31.5	30.3
80°	161.1	62.6	31.1	28.8	25.2	37.8	54.4	48.8	29.1	20.5	20.1
82.5°	64.6	26.4	18.1	16.1	13.8	26.0	42.9	39.4	21.7	13.0	13.0
85°	20.9	8.7	6.7	5.1	6.3	16.1	25.6	26.8	15.4	6.7	5.1
87.5°	2.8	1.2	1.2	1.6	1.2	2.8	7.9	7.5	4.3	0.8	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)