

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: P450475

Luminaire Tested: **GALN-SA1B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5366 lumens
Efficiency: N/A
Efficacy: 122.0 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): 44
Input Voltage (V): NR
Input Current (A_{in}): 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

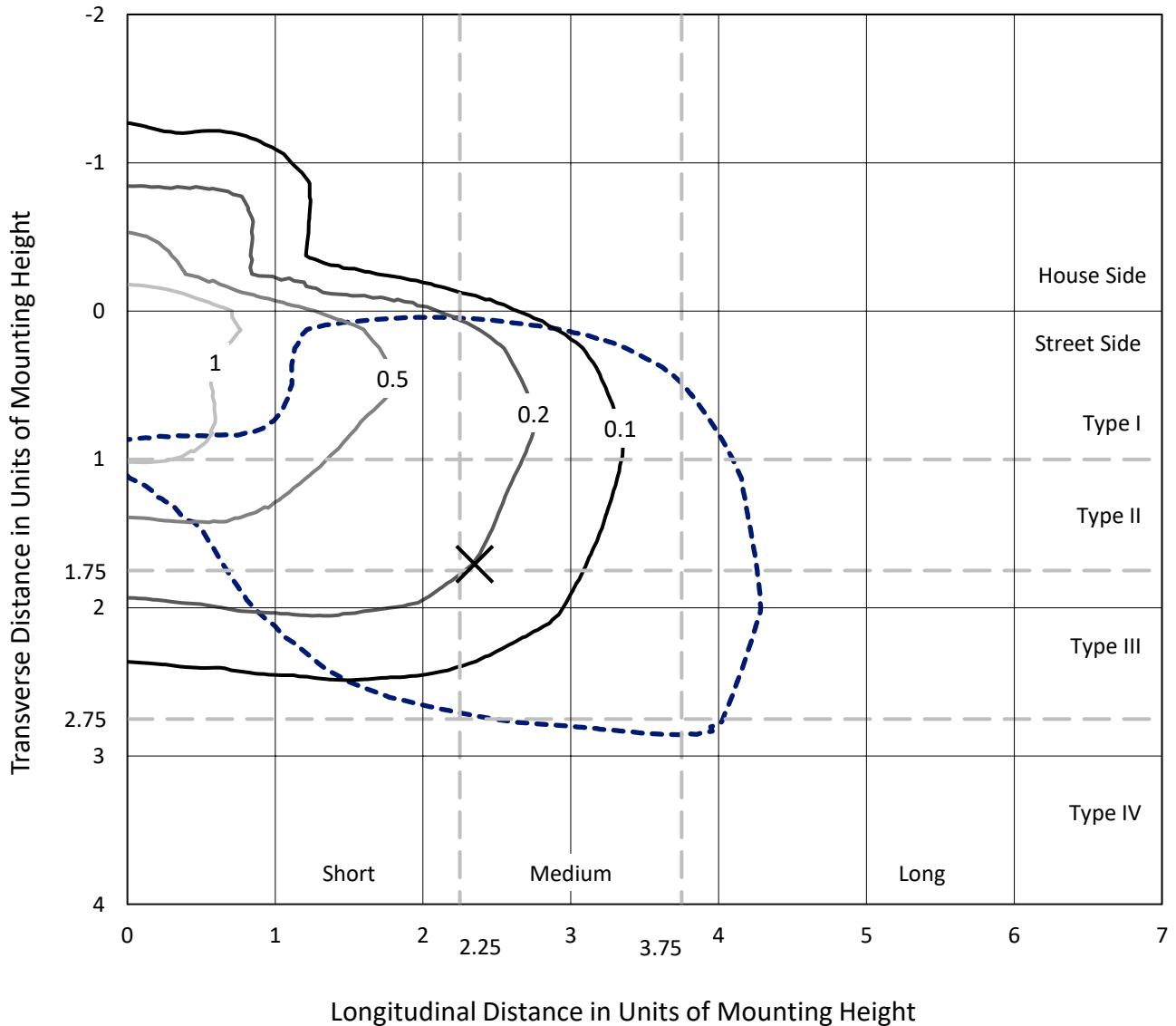




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Iso-Footcandle Lines of Horizontal Illumination

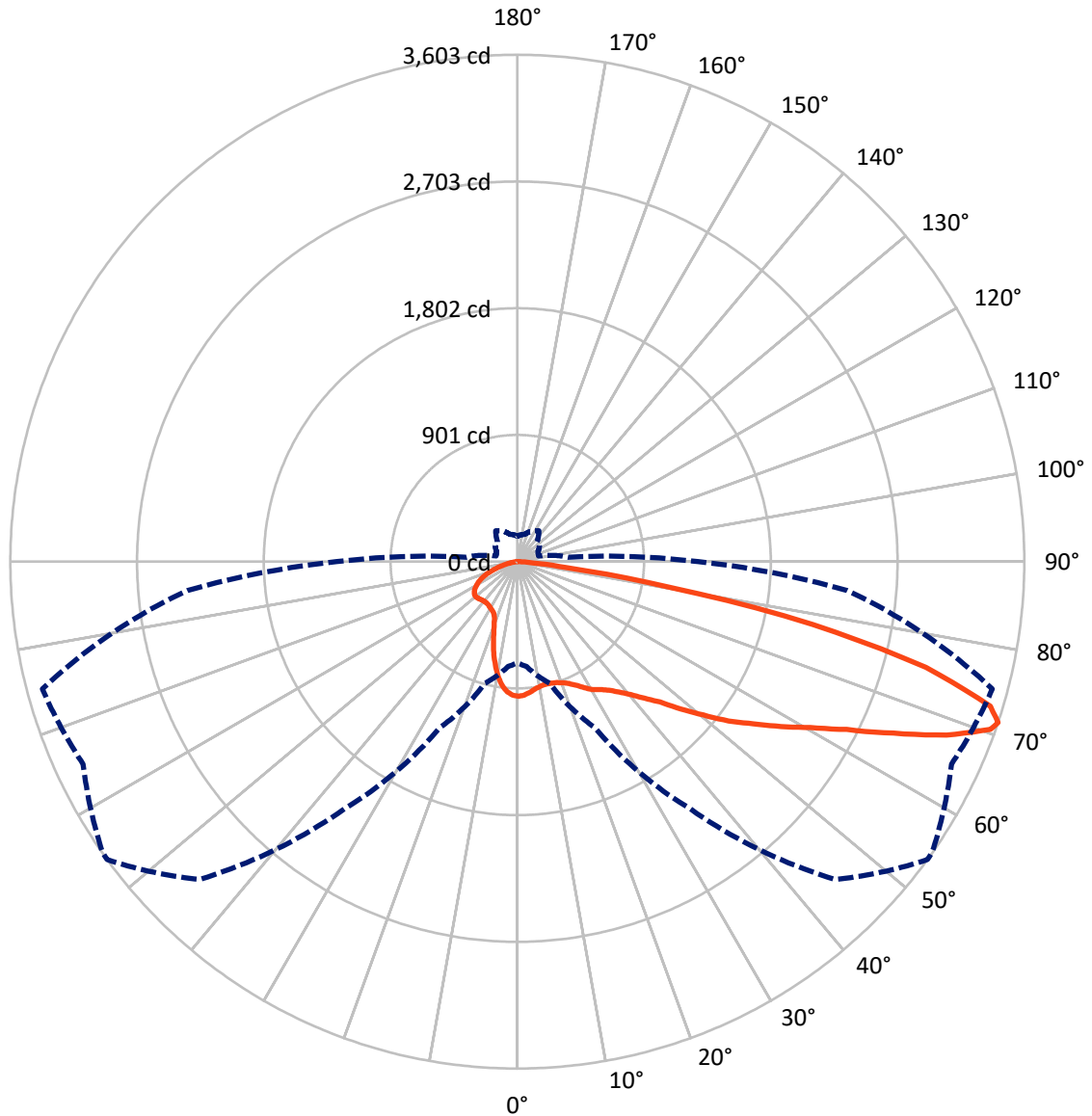
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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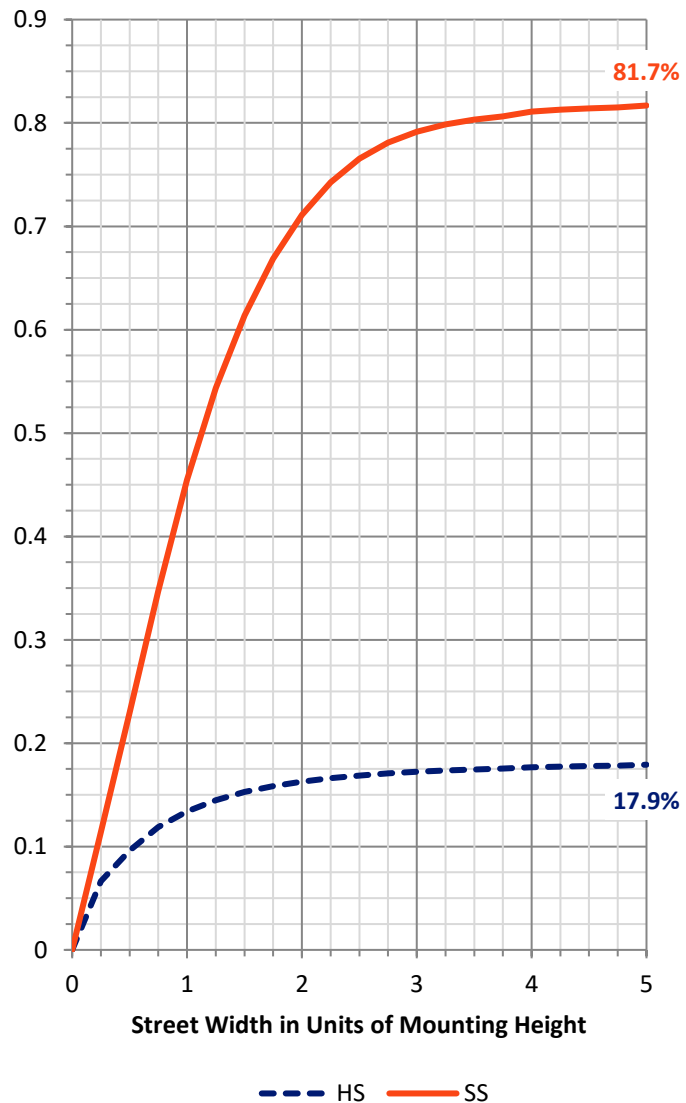
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.8	0.0	968.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4397.2	0.0	4397.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	5366.0	0.0	5366.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	1.6
10°-20°	225.3	4.2
20°-30°	375.1	7.0
30°-40°	554.6	10.3
40°-50°	781.2	14.6
50°-60°	1046.1	19.5
60°-70°	1318.5	24.6
70°-80°	900.6	16.8
80°-90°	79.2	1.5
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°	5366.0	100.0
0°-180°	5366.0	100.0



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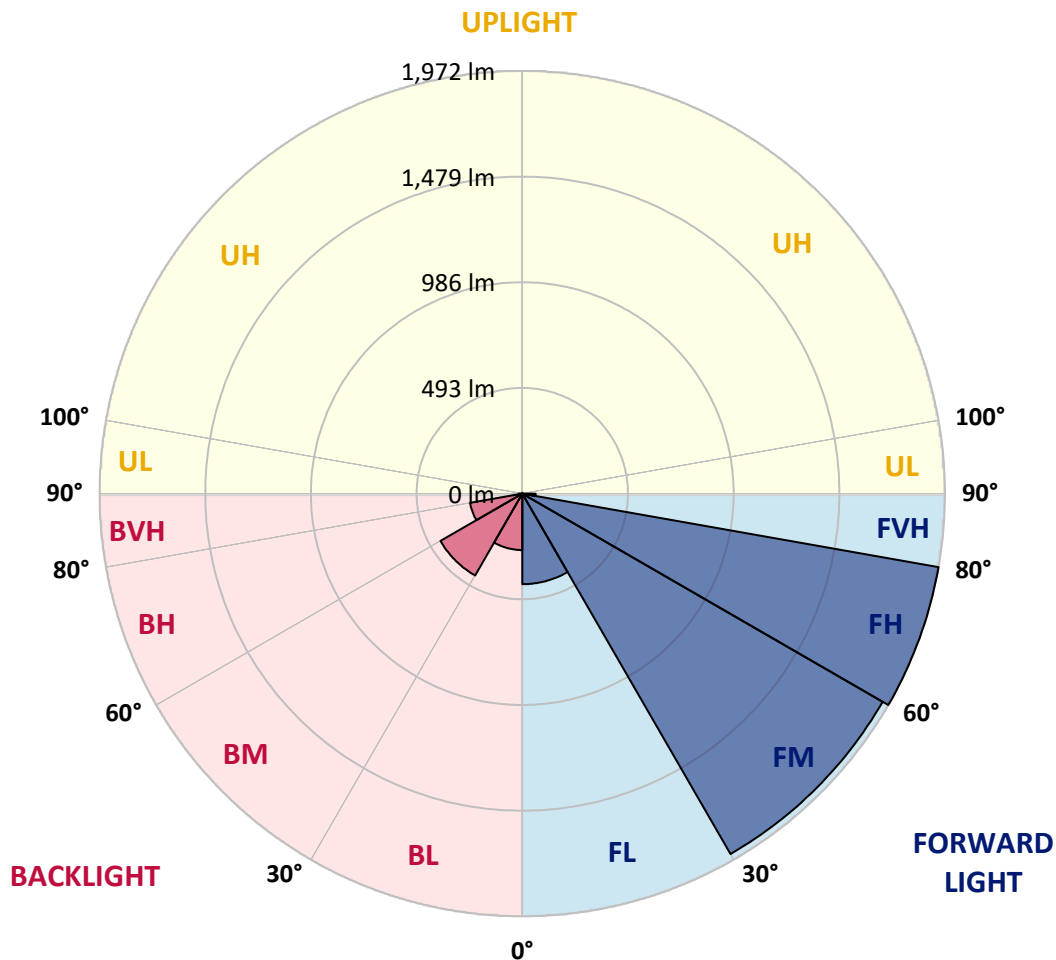
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.4	7.9			
FM	(30°-60°)	1941.2	36.2			
FH	(60°-80°)	1971.7	36.7			G2/5000
FVH	(80°-90°)	61.9	1.2			G1/100
BL	(0°-30°)	263.3	4.9	B1/500		
BM	(30°-60°)	440.8	8.2	B1/1000		
BH	(60°-80°)	247.4	4.6	B1/500		G1/500
BVH	(80°-90°)	17.3	0.3			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°	54°	55°	65°	75°	85°
0°	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4
2.5°	924.9	929.3	930.4	933.3	939.4	944.3	949.3	948.7	955.6	958.5	961.1
5°	883.8	884.9	889.3	895.1	905.8	919.4	932.7	933.0	950.1	963.8	970.4
7.5°	853.6	857.4	860.3	866.4	877.7	892.4	913.6	915.3	945.8	972.7	986.9
10°	833.9	838.2	841.4	849.0	860.3	876.8	899.7	902.9	942.6	986.9	1011.9
12.5°	815.9	820.3	823.2	833.0	847.8	868.1	893.9	897.7	943.8	1003.5	1039.1
15°	826.9	830.4	829.3	832.2	842.0	865.2	896.2	900.0	948.1	1019.4	1066.1
17.5°	875.9	878.8	869.3	858.2	853.6	870.7	903.5	907.5	956.8	1035.9	1093.6
20°	948.1	955.9	935.1	910.4	888.1	890.4	918.5	922.9	969.0	1052.4	1121.7
22.5°	1042.0	1047.8	1022.3	981.7	940.6	919.4	941.1	943.8	987.2	1073.9	1152.4
25°	1152.4	1155.9	1120.6	1068.4	1009.0	969.0	972.2	976.8	1017.4	1098.2	1179.7
27.5°	1259.7	1270.7	1229.8	1166.1	1087.8	1021.1	1014.8	1017.7	1050.1	1111.9	1198.5
30°	1386.9	1386.1	1342.9	1269.0	1168.7	1078.0	1055.1	1054.5	1067.8	1118.5	1212.2
32.5°	1488.4	1500.3	1457.9	1377.4	1261.1	1136.8	1082.9	1081.7	1081.4	1130.1	1232.4
35°	1603.7	1605.5	1566.6	1485.5	1361.1	1210.7	1121.7	1115.9	1109.3	1155.1	1260.0
37.5°	1706.9	1715.0	1679.4	1588.4	1459.4	1287.5	1175.1	1171.3	1151.0	1198.2	1304.0
40°	1787.5	1793.6	1772.1	1685.5	1556.2	1370.4	1242.9	1235.9	1211.3	1269.0	1362.9
42.5°	1813.9	1826.3	1834.7	1792.1	1667.5	1468.7	1326.4	1317.7	1298.8	1376.2	1430.7
45°	1815.9	1835.6	1880.0	1882.0	1779.4	1586.3	1423.7	1417.7	1416.2	1513.6	1526.1
47.5°	1800.5	1820.5	1895.0	1935.3	1879.1	1705.2	1564.3	1554.8	1555.6	1683.4	1633.0
50°	1763.4	1787.2	1877.6	1969.5	1957.1	1828.7	1712.7	1709.5	1727.5	1877.4	1744.0
52.5°	1693.6	1722.3	1859.7	1991.0	2015.0	1935.0	1881.4	1872.4	1917.9	2087.8	1865.5
55°	1500.3	1543.5	1793.9	2002.9	2070.1	2036.8	2033.3	2049.5	2109.8	2317.3	1999.1
57.5°	1399.4	1431.9	1651.0	2004.9	2139.7	2155.0	2210.7	2214.7	2320.2	2561.1	2150.1
60°	1344.3	1373.0	1572.7	1991.6	2236.8	2301.4	2392.1	2406.6	2525.8	2825.2	2306.6
62.5°	1296.2	1320.8	1525.8	1945.5	2346.3	2518.5	2627.2	2634.2	2759.1	3116.8	2461.1
65°	1182.9	1211.0	1431.3	1899.4	2440.8	2789.8	2939.1	2931.0	3007.5	3368.3	2557.9
67.5°	1030.1	1065.8	1254.8	1740.3	2487.5	3086.3	3290.4	3280.2	3252.7	3533.3	2585.7
70°	835.1	854.2	1029.0	1465.2	2301.1	3242.0	3567.8	3557.0	3404.6	3555.0	2454.2
71°	718.5	748.4	895.9	1301.4	2146.0	3194.4	3603.4	3600.5	3404.9	3495.0	2355.0
72.5°	560.9	579.1	709.6	1008.4	1824.0	2924.3	3515.3	3526.3	3331.0	3328.3	2150.7
75°	354.8	362.9	445.2	593.6	1000.9	2071.0	3000.8	3030.7	2957.6	2724.3	1599.4
77.5°	206.1	216.5	266.7	349.8	432.5	1124.0	2147.2	2179.7	2055.0	1500.0	654.8
80°	120.0	131.6	175.6	203.2	198.5	417.1	1093.3	1148.7	889.8	378.8	183.8
82.5°	66.7	74.5	123.5	123.8	105.8	136.2	344.1	360.0	253.9	152.8	75.1
85°	48.4	54.8	79.7	72.2	50.7	58.5	119.7	125.5	102.6	64.3	24.3
87.5°	17.1	24.3	43.8	34.8	13.9	12.2	34.5	28.1	26.1	18.0	5.5
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°	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4
2.5°	962.6	963.2	960.3	955.1	949.8	943.2	935.6	929.8	927.2	926.9	926.6
5°	973.0	974.5	963.5	947.2	929.3	907.2	888.4	866.9	861.4	852.7	855.3
7.5°	989.8	989.0	967.2	932.7	890.7	844.0	804.6	781.7	758.0	751.3	751.6
10°	1013.9	1008.4	967.2	903.2	833.0	763.8	708.7	673.9	655.1	639.4	633.6
12.5°	1039.4	1025.5	958.0	861.7	758.8	673.9	614.8	567.8	555.6	542.9	543.2
15°	1063.7	1040.6	939.7	803.5	678.8	578.0	520.6	492.5	488.7	490.1	489.8
17.5°	1085.8	1051.3	911.9	738.5	585.5	495.6	465.2	467.2	477.4	484.6	485.5
20°	1108.1	1057.7	870.4	651.6	497.4	445.8	446.9	462.9	478.3	488.1	489.6
22.5°	1129.3	1060.6	821.7	567.5	433.6	424.6	441.7	458.8	473.9	483.5	484.9
25°	1143.2	1053.9	752.7	479.7	402.3	417.1	435.1	449.6	462.3	472.2	474.5
27.5°	1146.9	1032.4	667.2	408.7	387.8	409.8	426.4	437.1	446.9	456.2	458.0
30°	1144.9	1000.9	573.3	366.9	379.4	401.4	414.2	422.0	433.9	441.2	442.6
32.5°	1141.7	964.0	475.4	344.6	372.5	393.6	401.2	408.1	407.8	404.9	406.9
35°	1142.9	920.0	395.9	331.3	366.4	387.8	394.2	385.5	360.6	359.4	358.3
37.5°	1149.0	876.5	338.3	322.0	363.2	386.9	390.4	350.4	328.4	318.3	315.6
40°	1164.6	825.8	300.3	315.1	362.9	393.6	373.3	332.7	290.4	270.7	269.3
42.5°	1185.5	775.9	277.1	310.7	366.4	403.8	366.4	307.8	261.7	250.1	248.4
45°	1216.5	718.8	264.3	308.7	371.6	407.5	364.1	289.6	250.1	240.9	240.9
47.5°	1251.6	664.3	257.4	307.2	378.3	404.9	343.5	283.8	244.6	245.8	251.3
50°	1286.4	617.1	252.2	304.1	384.1	403.5	335.1	283.5	246.1	260.9	270.7
52.5°	1326.6	583.8	245.8	298.8	384.1	394.2	332.5	289.3	250.1	254.5	258.8
55°	1375.3	573.3	237.7	287.5	377.1	371.0	331.0	297.7	253.0	242.9	244.6
57.5°	1439.7	590.1	229.9	273.3	361.2	347.0	330.4	300.0	246.4	238.0	236.2
60°	1514.5	623.5	227.5	258.8	339.4	326.4	327.0	293.3	237.1	228.4	229.9
62.5°	1566.9	643.5	226.1	247.8	315.6	303.8	318.5	285.2	233.0	225.5	227.0
65°	1566.9	619.1	212.7	231.0	284.9	276.5	308.4	275.1	227.8	219.1	217.7
67.5°	1507.5	548.1	192.5	205.8	251.0	245.5	294.2	262.9	220.0	213.3	209.9
70°	1352.7	415.6	167.0	176.2	208.1	213.0	275.9	246.4	207.0	198.8	193.6
71°	1284.6	362.0	156.2	161.2	191.6	198.8	267.2	239.4	201.2	189.6	180.3
72.5°	1153.3	304.9	140.0	142.0	163.8	176.8	249.0	226.1	190.1	173.6	163.2
75°	876.2	222.6	112.8	111.6	121.2	140.3	210.7	201.4	166.7	144.3	138.3
77.5°	378.5	121.2	84.3	85.2	82.3	106.4	165.8	173.0	142.9	117.4	111.9
80°	114.8	69.9	57.7	58.8	55.1	71.3	116.8	135.6	114.8	91.3	83.8
82.5°	58.8	41.7	39.4	38.8	35.1	40.3	70.7	92.8	82.0	57.1	50.4
85°	25.5	22.3	19.4	18.8	16.5	14.5	25.2	46.4	43.5	31.9	30.4
87.5°	6.4	5.8	3.8	3.5	2.0	0.3	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	0.0

(END OF REPORT)