

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: P526460

Luminaire Tested: **GALN-SA1B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4128 lumens
Efficiency: N/A
Efficacy: 93.8 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

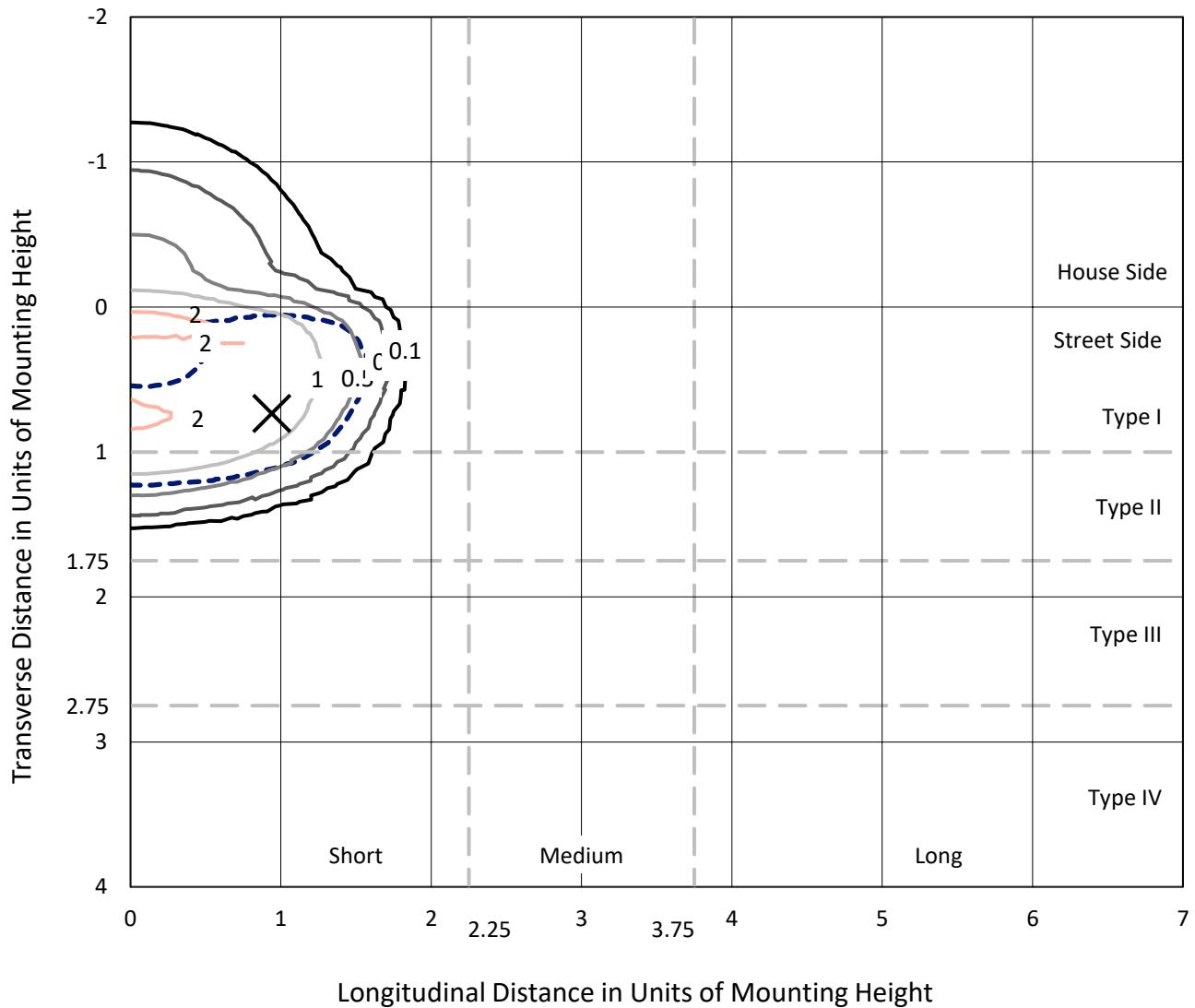
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526460
 CATALOG NUMBER: GALN-SA1B-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

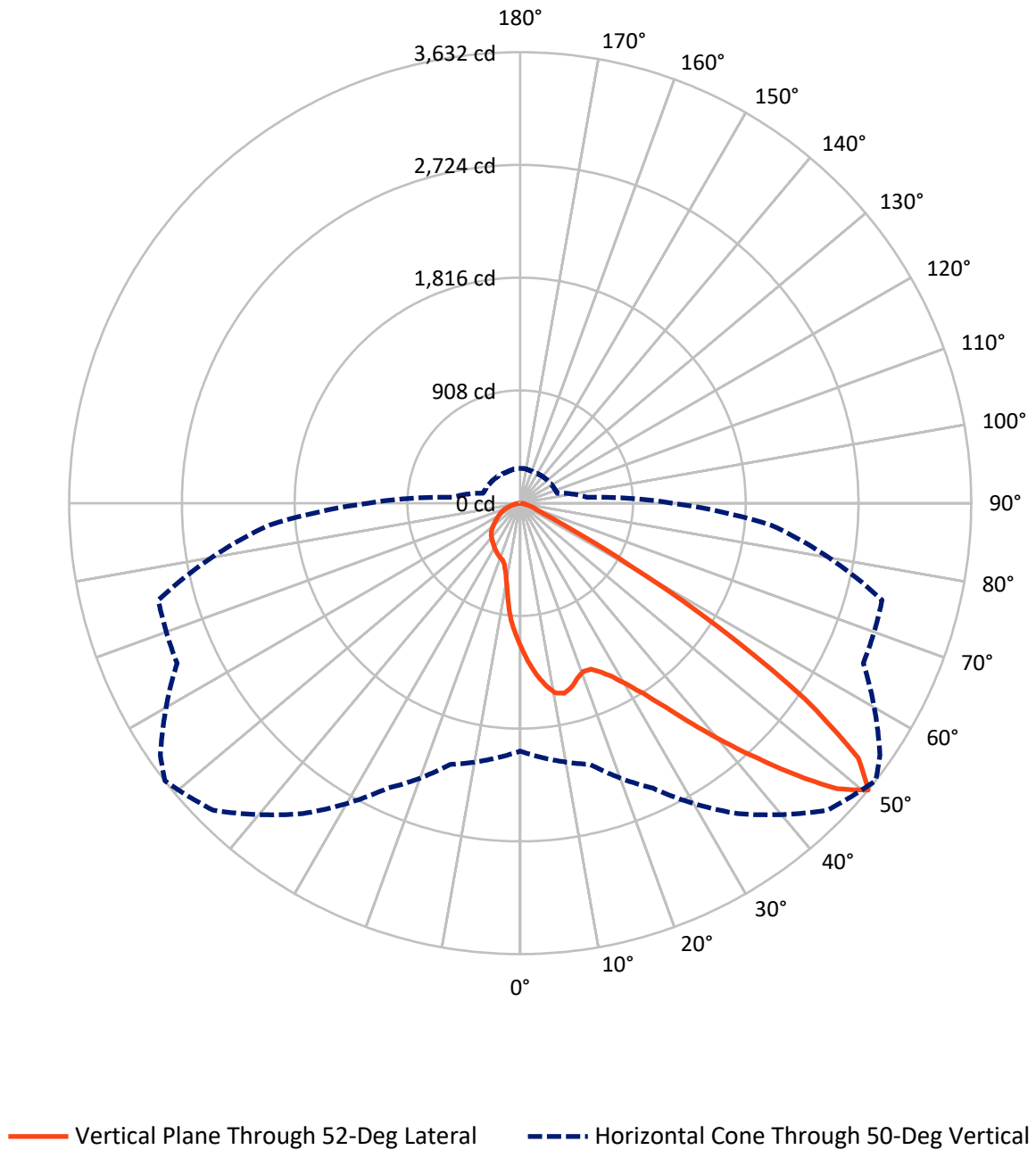
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P526460
CATALOG NUMBER: GALN-SA1B-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P526460

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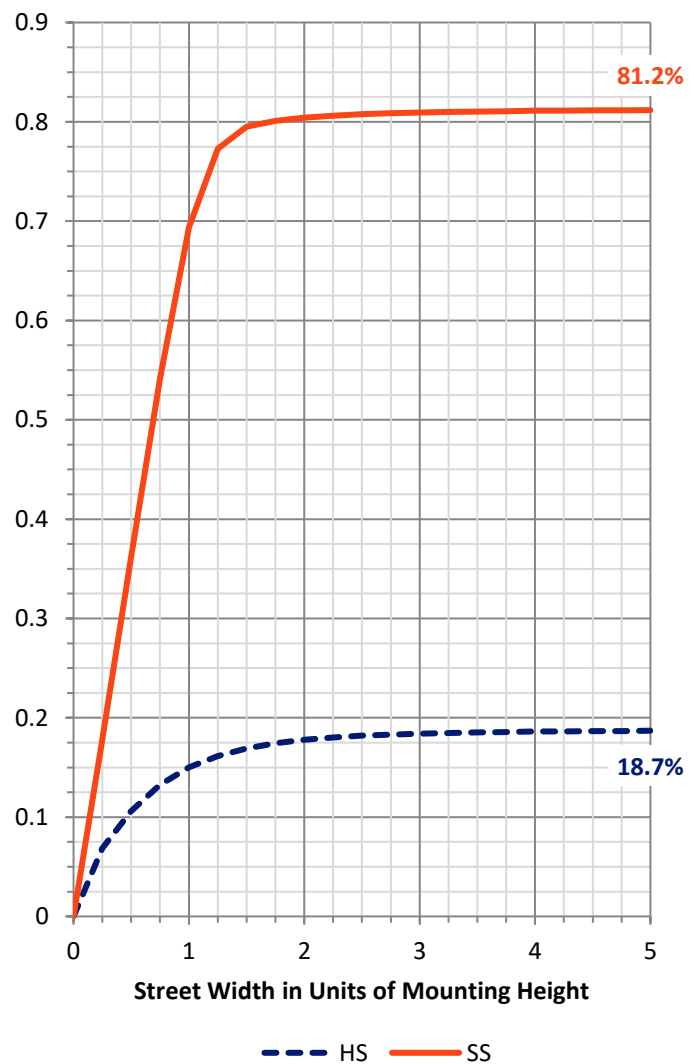
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.0	0.0	776.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3352.0	0.0	3352.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	4128.0	0.0	4128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	2.6
10°-20°	287.5	7.0
20°-30°	484.2	11.7
30°-40°	812.5	19.7
40°-50°	1243.0	30.1
50°-60°	906.2	22.0
60°-70°	201.7	4.9
70°-80°	72.7	1.8
80°-90°	12.9	0.3
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°	4128.0	100.0
0°-180°	4128.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526460

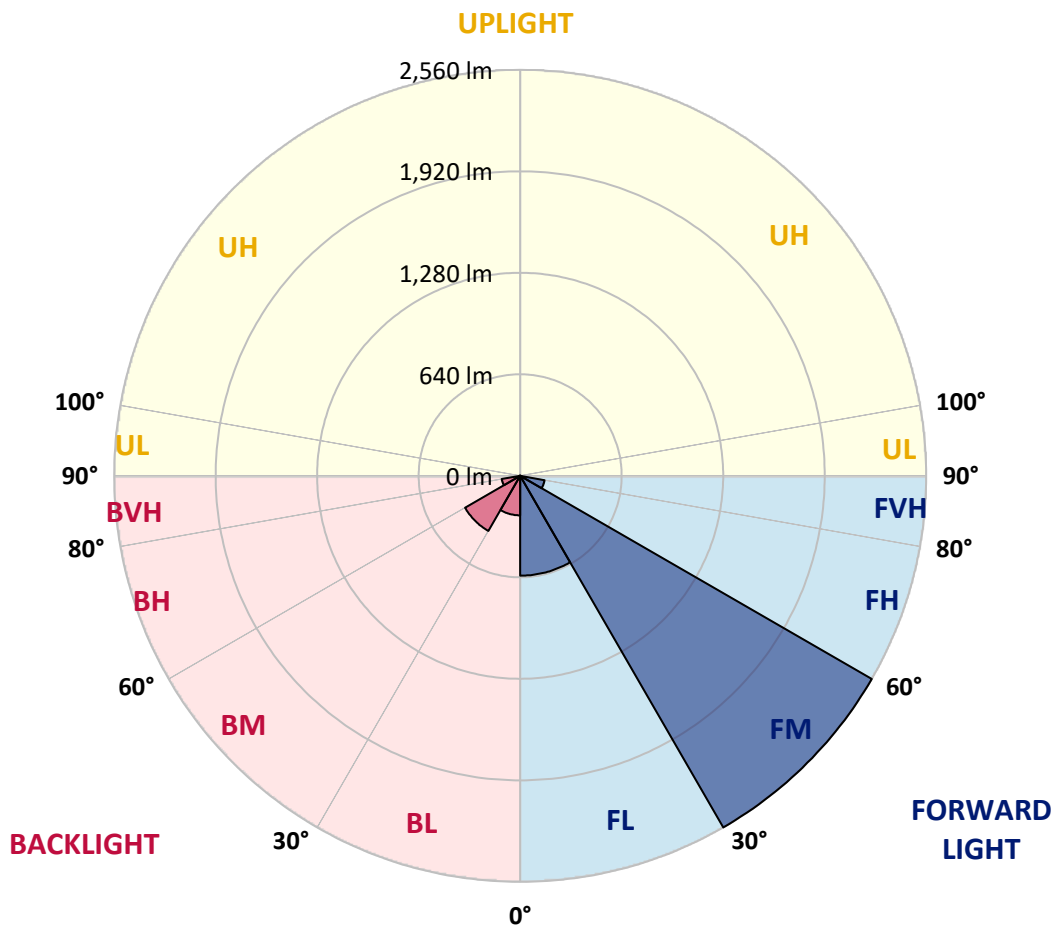
CATALOG NUMBER: GALN-SA1B-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.7	15.3			
FM	(30°-60°)	2560.4	62.0			
FH	(60°-80°)	156.2	3.8			G0/660
FVH	(80°-90°)	5.8	0.1			G0/10
BL	(0°-30°)	249.3	6.0	B1/500		
BM	(30°-60°)	401.4	9.7	B1/1000		
BH	(60°-80°)	118.2	2.9	B1/500		G1/500
BVH	(80°-90°)	7.1	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 Short



REPORT NUMBER: P526460

CATALOG NUMBER: GALN-SA1B-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1370.1	1343.7	1346.7	1327.8	1307.4	1301.4	1280.5	1260.6	1245.7	1213.9	1184.5
5°	1497.4	1489.5	1477.5	1462.6	1447.2	1409.4	1388.0	1363.1	1308.4	1259.1	1210.4
7.5°	1515.8	1514.3	1520.8	1520.8	1526.3	1511.9	1481.5	1464.1	1405.9	1325.8	1235.3
10°	1386.5	1391.0	1422.3	1463.1	1519.8	1559.1	1554.1	1549.7	1486.0	1376.5	1264.6
12.5°	1283.5	1273.6	1292.0	1326.8	1411.9	1506.9	1571.1	1571.6	1555.1	1457.6	1286.0
15°	1225.3	1232.3	1237.2	1253.7	1317.8	1427.8	1540.7	1574.0	1646.2	1514.8	1319.8
17.5°	1262.6	1239.2	1238.2	1242.2	1275.1	1357.6	1484.5	1541.7	1695.9	1588.5	1361.6
20°	1311.4	1310.9	1296.9	1292.0	1291.5	1365.1	1447.7	1525.3	1722.3	1684.0	1403.9
22.5°	1396.9	1396.9	1374.1	1363.1	1339.7	1399.9	1452.7	1505.4	1766.1	1749.7	1424.3
25°	1540.2	1516.8	1477.5	1450.7	1437.2	1458.6	1505.4	1552.6	1804.4	1819.3	1466.6
27.5°	1672.5	1635.7	1616.3	1570.1	1552.1	1539.7	1582.5	1630.3	1849.1	1927.7	1489.5
30°	1822.8	1816.3	1781.5	1721.8	1677.5	1654.6	1693.9	1741.2	1931.2	2038.7	1542.2
32.5°	2091.4	2032.7	1985.5	1912.3	1840.2	1791.4	1830.2	1861.6	2067.5	2154.6	1599.9
35°	2381.5	2362.6	2281.0	2149.1	2038.7	1994.9	2017.8	2041.2	2226.2	2331.7	1696.9
37.5°	2666.5	2640.6	2573.5	2462.5	2328.2	2239.2	2255.6	2283.0	2404.3	2570.5	1815.3
40°	2871.5	2839.6	2805.8	2789.4	2656.1	2534.2	2524.7	2531.7	2645.1	2794.4	1946.7
42.5°	2886.4	2925.7	2936.1	3002.3	2971.0	2871.0	2812.8	2814.3	2875.0	3015.7	2079.5
45°	2855.1	2818.7	2895.9	3076.4	3179.9	3226.7	3128.7	3116.2	3017.2	3144.1	2145.6
47.5°	2526.2	2536.2	2666.5	2952.1	3251.1	3460.0	3437.1	3395.8	3093.4	3139.6	2135.2
50°	1996.9	2057.1	2178.0	2533.7	3052.1	3496.8	3631.6	3536.1	3048.1	3016.2	2028.7
52.5°	1329.8	1354.6	1434.2	1893.4	2454.1	3125.7	3407.8	3429.7	3006.3	2854.6	1893.9
55°	592.0	590.0	701.9	989.0	1539.7	2378.5	2784.4	2917.7	2845.6	2689.9	1762.6
57.5°	250.7	259.2	305.0	427.3	757.2	1435.2	1886.5	2003.4	2188.4	2208.8	1352.2
60°	169.6	170.6	183.1	213.9	316.9	674.1	989.5	1129.8	1262.1	1253.2	717.4
62.5°	133.3	136.8	146.3	158.7	188.0	306.0	442.8	520.9	529.3	445.2	272.1
65°	113.9	114.4	123.9	134.3	147.3	178.1	213.4	217.4	219.9	211.9	200.0
67.5°	94.0	95.0	102.5	114.4	126.4	136.3	146.3	151.2	162.7	185.1	182.1
70°	74.6	76.1	82.6	92.5	103.5	109.4	121.9	126.4	136.8	154.2	161.2
72.5°	56.7	57.2	62.7	69.6	79.6	85.6	96.0	101.0	108.0	122.9	129.3
75°	40.8	42.3	46.3	49.7	51.2	55.2	65.2	70.6	80.6	87.1	87.6
77.5°	21.4	22.4	23.4	23.4	28.4	35.8	42.3	45.3	52.2	57.2	54.7
80°	8.5	9.0	11.4	15.4	19.9	25.9	30.3	31.8	37.8	40.8	42.3
82.5°	5.0	5.5	7.5	10.9	14.4	18.4	21.9	23.4	27.4	30.8	31.8
85°	2.5	3.0	4.5	7.0	9.5	11.4	10.9	10.4	10.4	9.9	10.4
87.5°	1.0	1.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	3.0	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

REPORT NUMBER: P526460

CATALOG NUMBER: GALN-SA1B-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1165.1	1145.2	1126.8	1093.0	1056.2	1045.7	1002.9	987.5	976.6	963.6	959.6
5°	1171.1	1144.7	1085.5	1017.4	963.1	893.5	847.7	798.5	762.6	753.7	751.2
7.5°	1183.5	1138.2	1036.3	933.3	822.3	727.8	655.7	616.9	582.6	580.6	577.1
10°	1197.4	1118.8	982.5	820.8	679.1	591.5	548.2	531.3	522.9	520.9	519.9
12.5°	1208.9	1114.9	922.3	711.4	577.6	524.8	511.9	510.4	513.9	514.9	516.9
15°	1213.9	1098.9	849.7	613.4	514.4	495.0	500.5	506.4	508.9	515.4	510.4
17.5°	1223.3	1078.5	760.2	535.8	479.1	482.6	492.0	499.0	503.0	507.4	501.0
20°	1228.3	1060.1	676.1	489.5	466.6	473.1	486.0	491.5	496.5	498.5	491.0
22.5°	1223.8	1022.3	602.0	452.2	454.7	463.2	474.6	480.6	477.6	469.6	465.1
25°	1211.9	969.1	524.8	428.3	437.8	452.7	461.7	457.2	451.7	447.2	445.7
27.5°	1211.4	903.9	469.1	406.4	423.4	443.8	440.8	436.8	439.3	435.8	431.8
30°	1213.9	840.7	423.4	394.0	412.9	422.9	426.3	422.4	425.3	418.9	420.9
32.5°	1200.9	779.1	393.5	379.6	400.5	400.0	411.4	414.4	407.4	394.0	396.0
35°	1206.4	729.3	368.1	373.1	386.5	386.5	395.5	392.0	373.6	365.7	367.6
37.5°	1244.2	680.6	355.7	364.2	373.1	377.1	374.1	359.2	354.7	354.7	355.7
40°	1280.0	638.8	348.2	362.2	360.7	363.2	341.3	342.8	342.8	343.3	340.8
42.5°	1311.9	610.4	342.3	350.2	352.7	339.8	326.3	324.9	328.3	327.8	325.9
45°	1323.3	587.0	333.8	336.8	338.8	317.4	310.9	307.9	311.9	313.4	315.4
47.5°	1279.5	567.6	324.4	318.4	314.4	300.5	292.0	286.6	291.5	300.0	302.0
50°	1223.3	542.3	309.4	298.0	289.5	283.6	277.6	272.1	275.6	281.6	280.1
52.5°	1140.2	502.5	290.5	278.6	264.2	265.7	260.2	257.2	259.2	259.2	257.7
55°	1021.8	412.9	258.7	250.2	238.3	242.3	243.3	239.3	235.3	238.8	235.8
57.5°	697.5	291.5	230.8	230.8	218.9	224.4	223.9	214.4	205.0	206.0	204.0
60°	403.5	232.3	212.9	210.9	198.5	203.0	204.0	197.5	183.1	184.1	182.1
62.5°	229.3	198.5	186.1	183.1	180.6	184.6	184.6	176.1	163.7	164.7	162.7
65°	195.0	184.1	166.2	165.7	164.7	165.7	161.7	152.7	141.8	137.3	137.8
67.5°	177.1	170.1	152.7	148.3	145.3	144.8	137.3	128.8	123.9	119.9	119.4
70°	155.2	149.7	136.8	130.8	127.9	120.9	113.4	108.0	101.0	99.0	101.0
72.5°	122.9	122.4	117.4	110.9	104.5	99.0	92.5	85.1	78.6	77.1	73.6
75°	85.1	86.1	87.1	86.1	80.6	73.6	66.2	60.2	52.2	47.8	46.8
77.5°	55.7	57.2	58.7	56.7	53.2	46.8	41.8	34.3	28.4	24.9	24.4
80°	40.8	42.8	43.8	42.3	38.3	33.3	27.9	21.9	17.4	14.4	14.4
82.5°	31.3	33.3	34.3	31.8	27.9	23.9	19.9	15.4	11.9	9.5	9.0
85°	10.9	10.4	12.4	12.9	15.4	14.4	11.9	9.0	7.0	5.0	4.5
87.5°	3.0	3.0	3.5	3.5	3.0	2.5	2.5	2.5	2.0	1.5	1.5
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)