

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: P648197

Luminaire Tested: **GALN-SA1B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3363 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

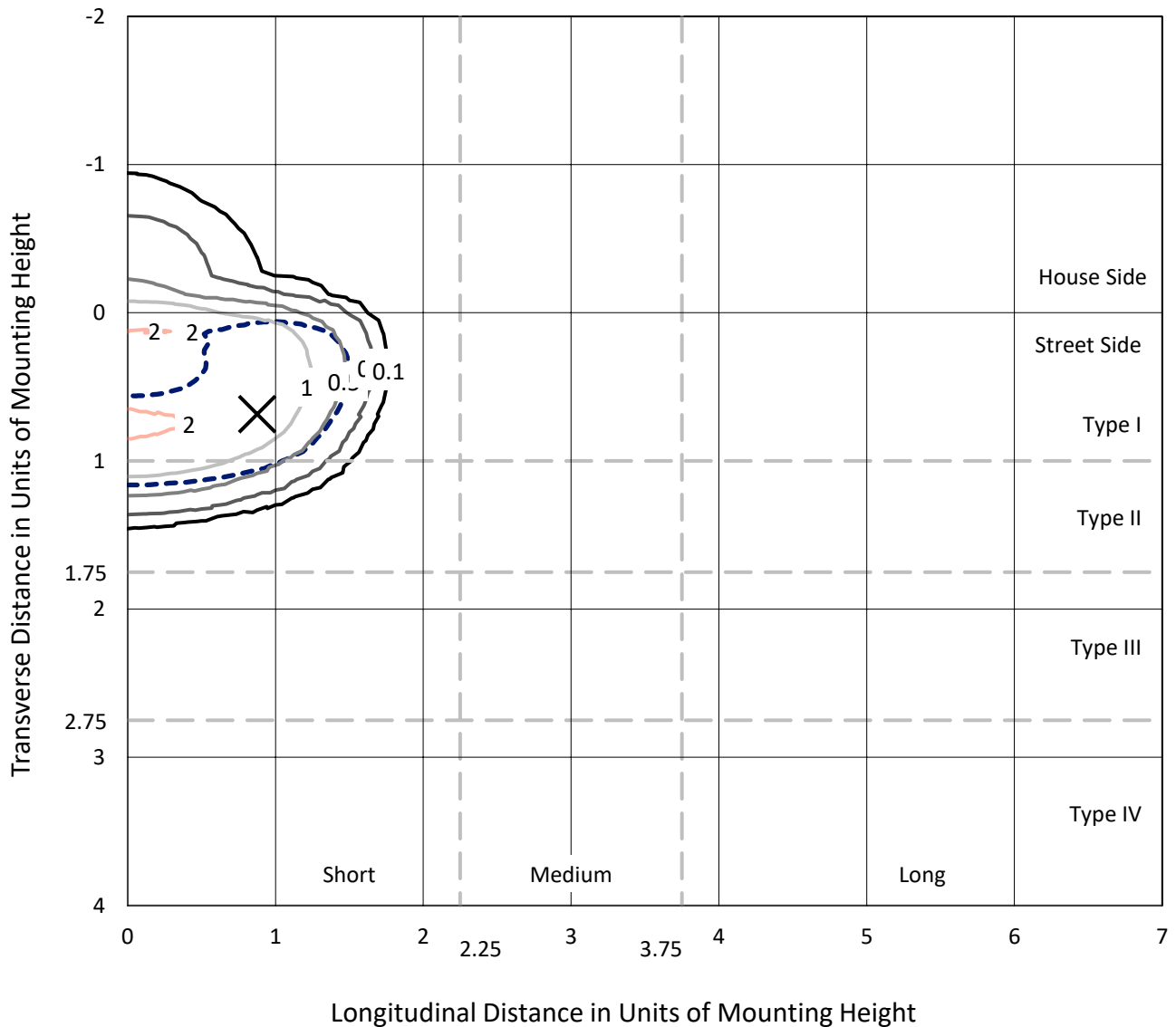
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

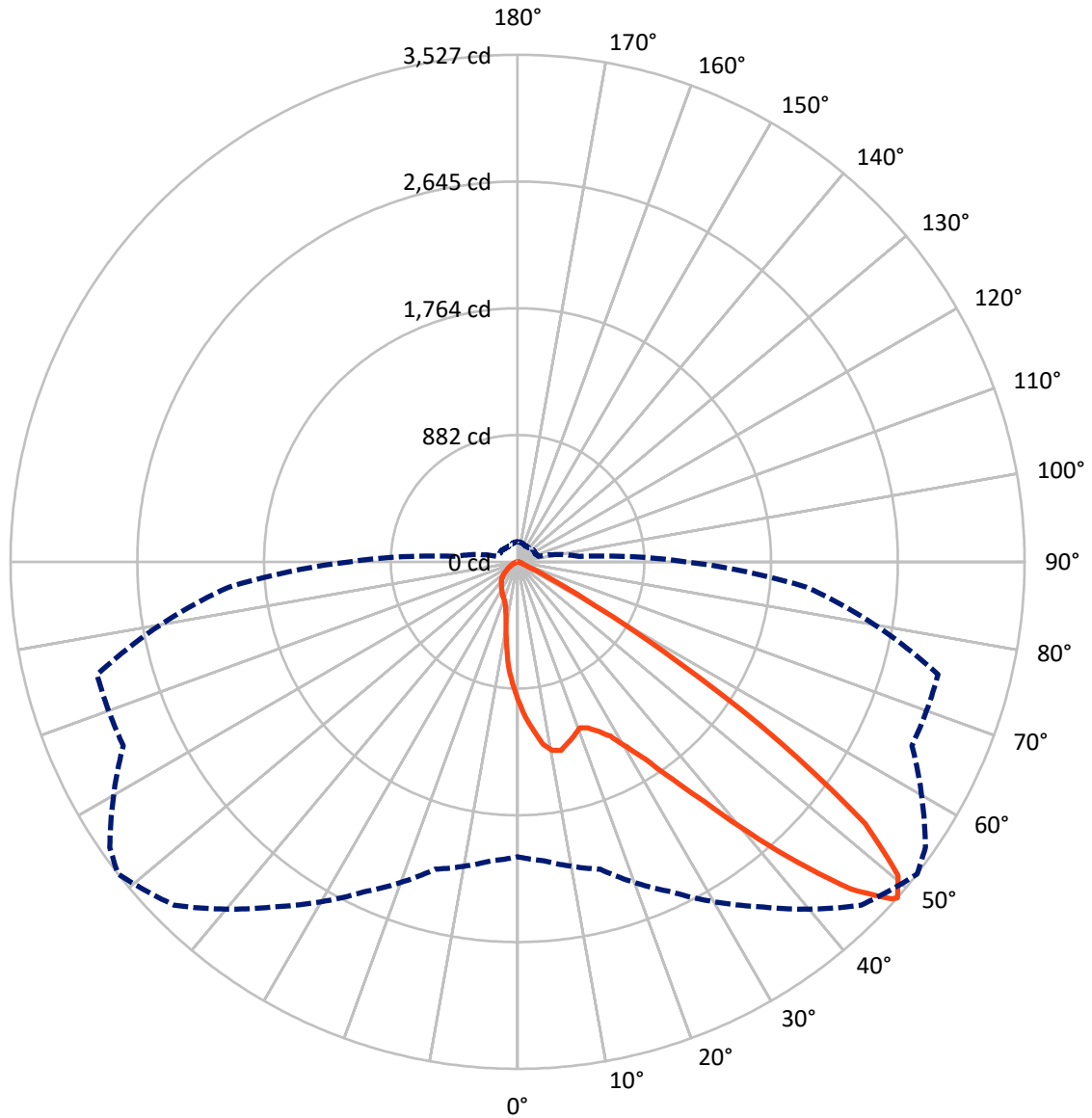
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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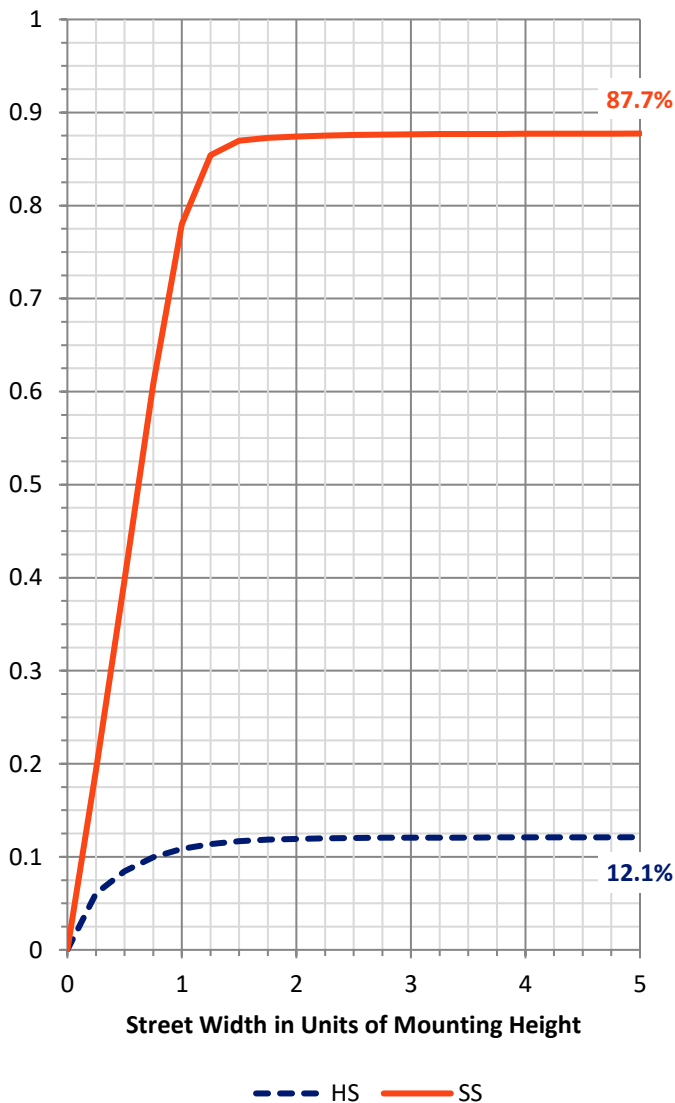
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.5	0.0	409.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2953.5	0.0	2953.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	3363.0	0.0	3363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	2.6
10°-20°	232.3	6.9
20°-30°	396.6	11.8
30°-40°	730.4	21.7
40°-50°	1134.3	33.7
50°-60°	682.7	20.3
60°-70°	79.0	2.3
70°-80°	15.3	0.5
80°-90°	3.5	0.1
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°	3363.0	100.0
0°-180°	3363.0	100.0

Coefficient of Utilization

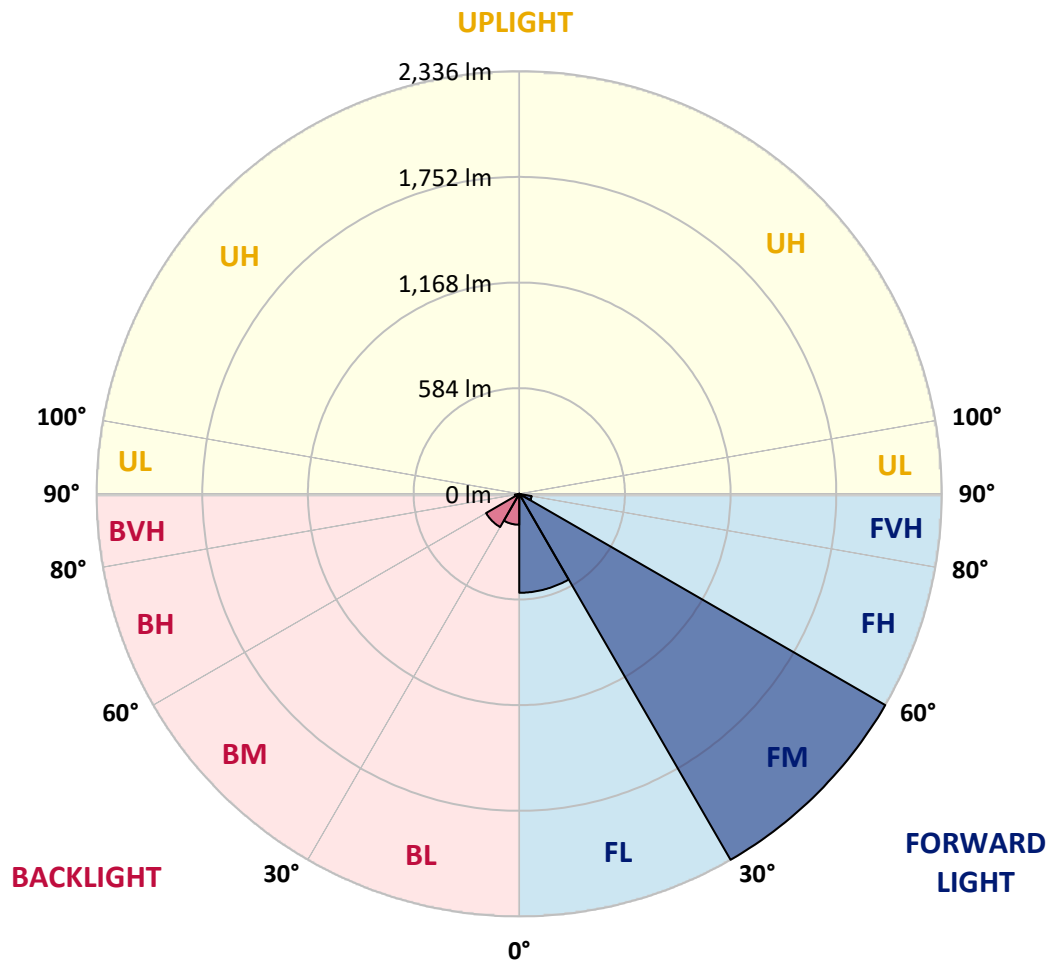


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.8	16.3			
FM (30°-60°)	2335.5	69.4			
FH (60°-80°)	69.5	2.1			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	171.1	5.1	B1/500		
BM (30°-60°)	211.9	6.3	B0/220		
BH (60°-80°)	24.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	1177.1	1150.1	1152.6	1134.9	1124.6	1107.9	1085.4	1081.0	1056.5	1023.1	989.3
5°	1282.9	1276.6	1284.9	1259.5	1260.4	1233.0	1180.0	1181.0	1124.6	1070.2	1017.7
7.5°	1289.8	1275.1	1283.5	1306.0	1319.3	1314.3	1284.4	1258.4	1205.0	1125.1	1048.7
10°	1155.0	1183.0	1191.8	1229.1	1282.0	1337.9	1334.5	1336.0	1291.3	1186.9	1075.1
12.5°	1074.1	1055.5	1085.4	1107.9	1187.9	1296.2	1345.7	1356.5	1359.9	1246.7	1101.6
15°	1037.3	1037.3	1042.3	1048.7	1106.5	1206.5	1307.5	1338.9	1412.9	1325.1	1143.3
17.5°	1060.4	1059.4	1066.3	1053.1	1074.6	1151.6	1272.2	1308.0	1472.2	1402.1	1176.1
20°	1130.5	1133.9	1129.6	1091.3	1092.8	1150.6	1233.0	1289.4	1512.4	1468.8	1219.8
22.5°	1228.1	1230.0	1205.0	1163.4	1151.1	1179.5	1255.5	1298.7	1544.8	1548.7	1233.0
25°	1340.8	1333.0	1328.0	1269.2	1232.0	1256.5	1306.5	1331.5	1564.8	1617.3	1270.7
27.5°	1497.2	1481.5	1451.6	1399.1	1371.7	1336.9	1372.7	1413.9	1622.2	1713.4	1311.9
30°	1728.1	1714.4	1656.0	1588.4	1516.4	1482.0	1493.3	1515.8	1725.7	1824.7	1366.3
32.5°	2075.7	2046.8	1962.4	1833.6	1735.4	1640.9	1637.9	1661.9	1818.3	1978.6	1431.0
35°	2458.5	2449.8	2325.7	2192.9	2003.1	1857.0	1859.5	1872.2	1995.8	2180.6	1515.8
37.5°	2713.0	2761.6	2682.6	2540.0	2380.6	2171.8	2118.8	2123.3	2239.5	2419.9	1668.8
40°	2909.6	2868.4	2877.8	2844.4	2735.6	2593.4	2476.2	2453.2	2521.3	2684.6	1820.8
42.5°	2823.8	2825.8	2883.2	2962.1	2989.0	2978.7	2859.1	2815.5	2762.5	2901.2	1965.4
45°	2581.6	2632.1	2706.7	2915.5	3098.8	3270.9	3247.4	3174.8	2929.2	3072.9	2048.7
47.5°	2195.3	2193.3	2315.4	2587.0	2994.4	3397.4	3504.2	3453.3	3047.4	3053.7	2031.6
48°	2052.6	2087.9	2213.9	2533.6	2928.3	3378.8	3527.3	3463.1	3027.2	3028.3	2016.9
50°	1517.3	1511.0	1667.8	2060.0	2615.5	3174.8	3430.2	3480.3	3026.8	2899.3	1913.9
52.5°	801.6	829.0	943.2	1295.2	1849.2	2598.3	3025.8	3103.7	2919.9	2688.5	1765.8
55°	340.7	307.9	395.6	584.8	1040.3	1736.0	2219.8	2393.4	2468.9	2379.1	1544.8
57.5°	121.6	132.9	152.9	220.1	437.3	950.1	1323.7	1458.5	1710.5	1745.8	1052.6
60°	78.0	79.4	85.8	101.0	164.2	366.2	628.0	735.4	849.6	877.0	491.3
62.5°	60.3	60.8	63.7	66.2	78.0	142.2	235.8	279.5	290.3	249.5	129.0
65°	50.5	51.0	52.0	52.0	55.4	66.7	82.4	90.7	88.2	87.2	73.1
67.5°	38.8	39.7	41.7	41.7	43.6	40.7	45.6	48.5	54.9	66.7	62.2
70°	30.4	30.9	32.3	33.4	33.4	29.4	32.8	35.8	40.2	49.5	49.0
72.5°	23.6	24.5	25.5	25.5	24.0	20.1	23.6	26.0	28.9	34.3	33.4
75°	18.2	18.2	18.6	15.2	11.7	10.3	14.3	17.1	21.5	22.6	18.6
77.5°	4.9	5.4	4.9	4.4	4.9	7.4	9.3	10.8	13.7	13.7	12.3
80°	0.0	0.5	1.5	3.0	4.9	6.9	8.3	9.3	10.8	11.7	11.3
82.5°	0.0	0.5	1.5	3.0	4.4	5.4	7.4	7.8	8.8	10.3	10.3
85°	0.0	0.5	1.0	2.0	3.0	3.4	3.4	3.0	3.0	2.4	2.0
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	1.5	1.5	1.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	976.1	960.9	937.8	901.5	866.8	844.2	822.6	798.6	785.3	784.4	777.0
5°	987.8	953.5	898.6	836.3	769.7	712.3	654.5	616.7	582.9	564.3	560.9
7.5°	994.3	949.6	860.8	756.5	642.7	549.0	484.4	436.8	418.2	404.4	403.9
10°	1007.5	942.7	804.5	650.5	509.9	415.2	370.6	349.1	338.7	334.8	328.9
12.5°	1017.3	930.0	746.7	541.8	403.0	344.1	324.6	319.6	320.2	322.1	319.6
15°	1031.0	918.7	668.7	444.7	338.3	309.8	309.8	310.9	317.7	318.7	318.1
17.5°	1030.0	896.7	588.3	366.2	299.0	295.1	296.6	305.9	310.3	311.8	308.3
20°	1041.8	876.1	505.4	312.8	277.0	282.9	292.7	295.1	300.5	301.5	297.5
22.5°	1038.3	824.6	428.5	270.6	260.3	271.6	281.4	284.3	282.9	279.9	279.5
25°	1032.0	780.5	357.9	242.7	248.1	260.3	269.7	264.3	261.3	261.8	262.3
27.5°	1020.7	724.6	299.6	223.1	231.4	249.5	249.1	247.1	250.0	247.6	250.0
30°	1018.8	668.7	251.5	205.4	219.2	232.4	233.3	236.8	240.2	235.8	240.2
32.5°	1021.7	607.5	217.2	194.7	211.8	212.3	223.1	226.5	224.0	214.2	215.2
35°	1044.2	560.3	192.1	188.8	200.1	200.5	210.8	206.4	195.6	189.7	193.2
37.5°	1091.7	521.2	180.4	183.4	184.3	190.7	191.2	182.4	183.4	182.8	184.8
40°	1152.6	491.3	172.1	178.4	177.5	181.9	164.2	169.1	173.5	175.0	176.0
42.5°	1194.2	469.6	166.7	170.6	168.7	160.8	151.0	155.9	159.3	164.7	165.7
45°	1212.9	452.5	160.3	156.9	156.9	142.7	138.7	139.7	147.6	153.5	152.5
47.5°	1182.5	435.8	149.0	138.7	142.2	130.4	126.0	126.0	134.4	141.6	140.2
48°	1170.7	428.9	149.6	134.8	137.3	128.4	124.0	123.1	132.3	139.2	139.2
50°	1112.3	403.5	136.8	124.0	119.1	118.2	115.2	116.2	122.1	128.4	128.4
52.5°	998.6	348.6	115.7	106.4	97.6	103.4	104.9	103.0	105.9	111.8	111.3
55°	833.4	267.7	92.6	88.2	81.4	87.8	90.7	88.2	85.3	89.7	89.7
57.5°	533.8	144.2	74.0	75.0	68.1	74.5	77.0	71.1	65.7	69.1	68.7
60°	240.7	86.3	60.8	59.4	54.9	62.2	66.2	59.4	52.0	54.4	56.8
62.5°	90.2	61.3	46.1	45.1	44.1	51.0	52.9	47.5	40.2	41.7	42.1
65°	66.2	53.9	36.8	33.4	35.3	40.2	39.2	33.8	28.9	28.9	29.9
67.5°	56.4	47.1	29.9	26.0	26.0	26.5	24.5	21.5	20.1	21.1	22.1
70°	44.1	37.3	23.6	20.1	18.2	16.2	14.3	13.7	12.3	13.7	13.2
72.5°	28.4	25.0	18.2	15.2	13.7	11.3	9.3	8.8	7.4	6.9	6.9
75°	15.2	15.2	14.3	12.3	10.8	8.8	7.4	5.9	3.9	3.0	3.0
77.5°	10.8	11.7	12.8	11.7	9.8	7.4	5.9	3.9	2.0	1.0	1.0
80°	10.3	11.7	12.8	11.3	9.8	7.4	5.4	3.0	1.5	0.5	0.5
82.5°	9.3	10.8	11.7	10.3	8.8	6.3	4.9	3.0	1.5	0.5	0.5
85°	2.0	2.4	3.0	3.0	3.4	4.4	3.4	2.4	1.0	0.5	0.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5
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)