

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: P652157

Luminaire Tested: **GALN-SA1B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652157
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-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 3612.1 lumens
Efficiency: N/A
Efficacy: 82.1 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

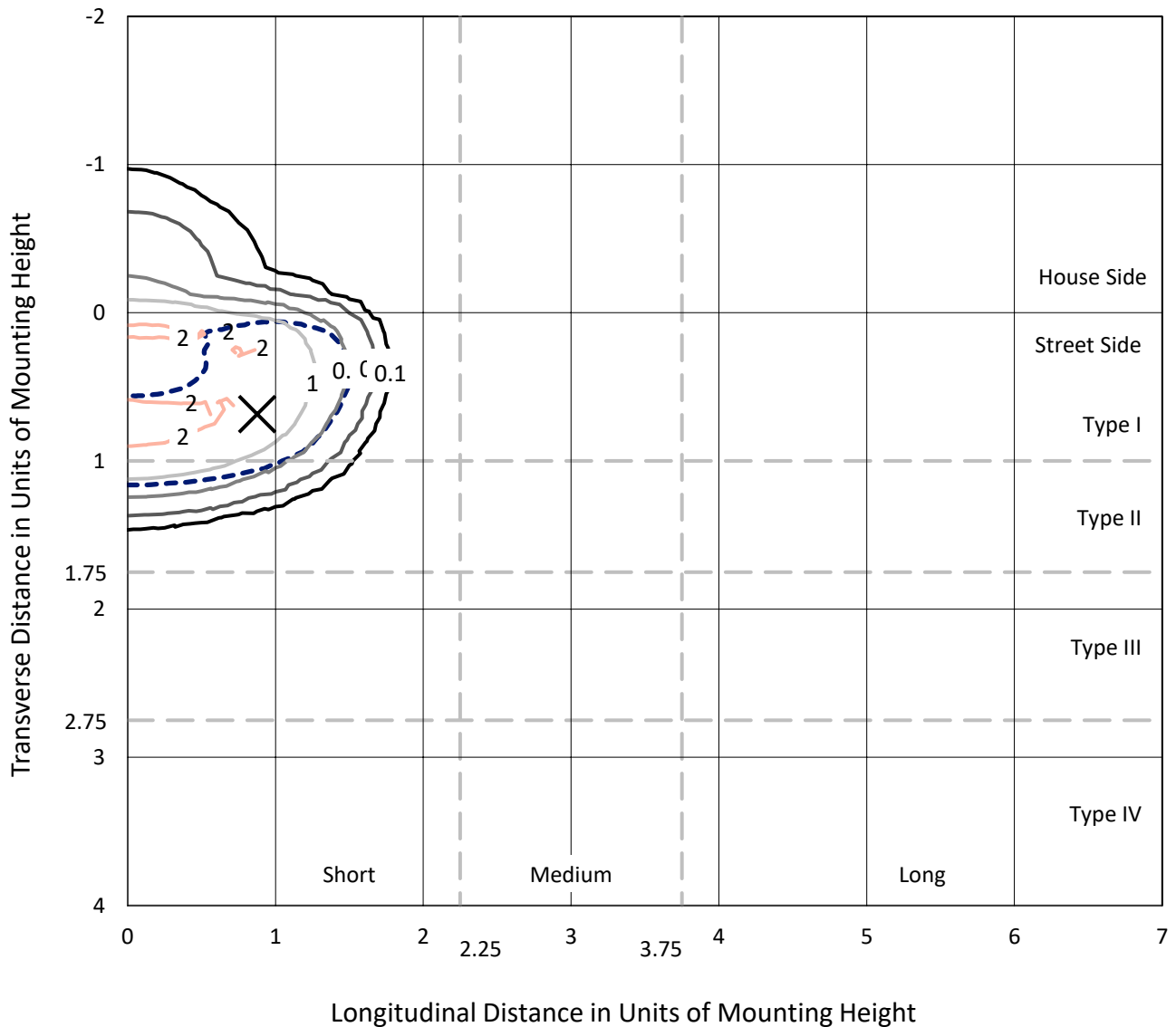
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652157
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Iso-Footcandle Lines of Horizontal Illumination

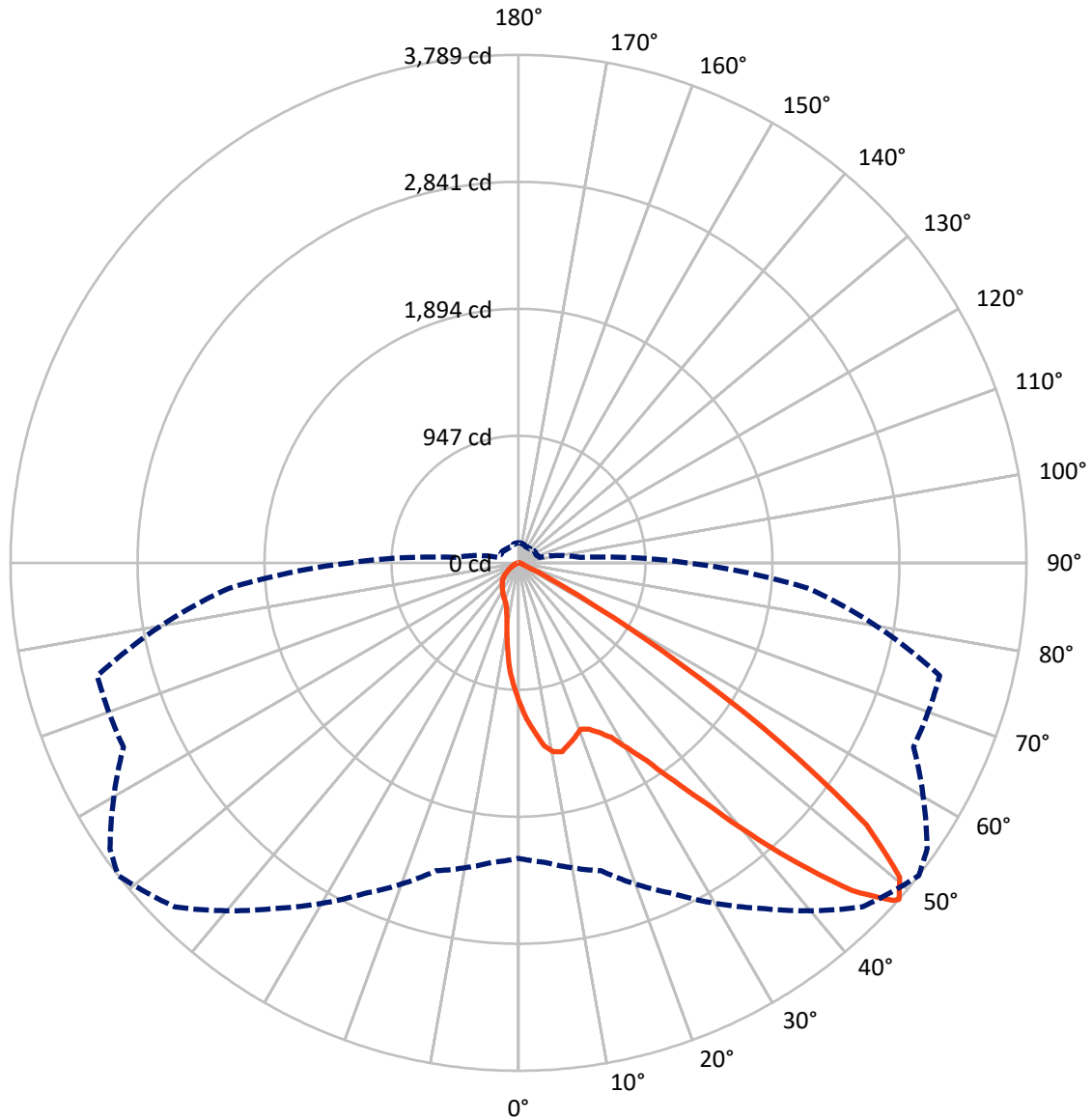
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

REPORT NUMBER: P652157
CATALOG NUMBER: GALN-SA1B-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

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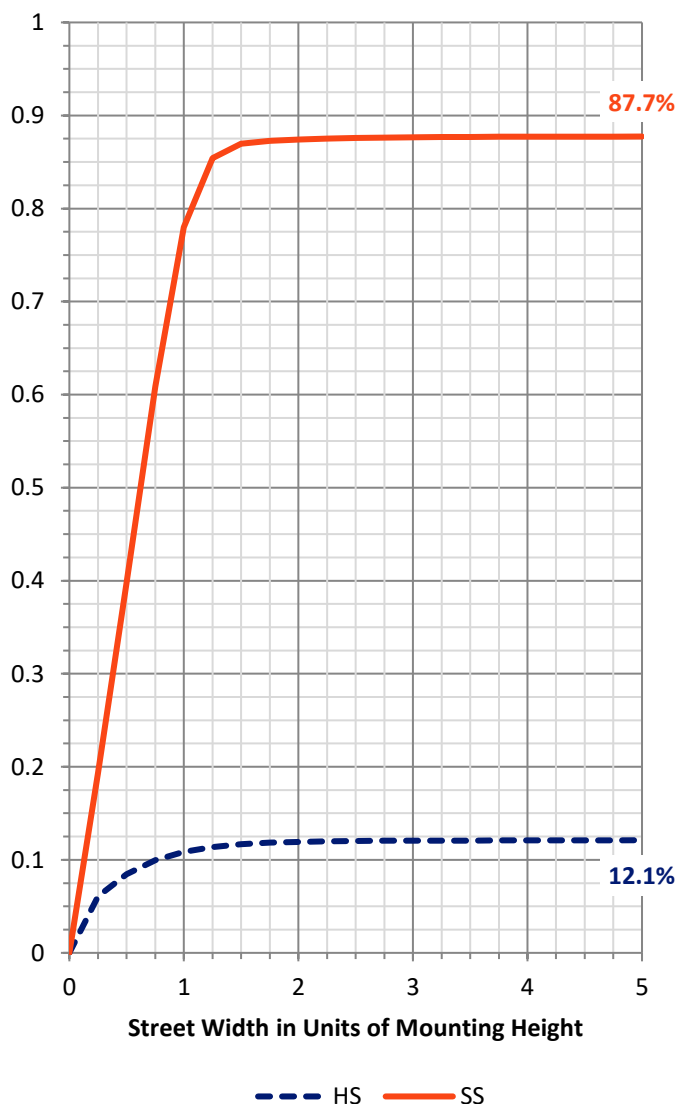
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.8	0.0	439.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3172.3	0.0	3172.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	3612.1	0.0	3612.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	2.6
10°-20°	249.5	6.9
20°-30°	426.0	11.8
30°-40°	784.5	21.7
40°-50°	1218.3	33.7
50°-60°	733.2	20.3
60°-70°	84.8	2.3
70°-80°	16.4	0.5
80°-90°	3.8	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°	3612.1	100.0
0°-180°	3612.1	100.0

Coefficient of Utilization

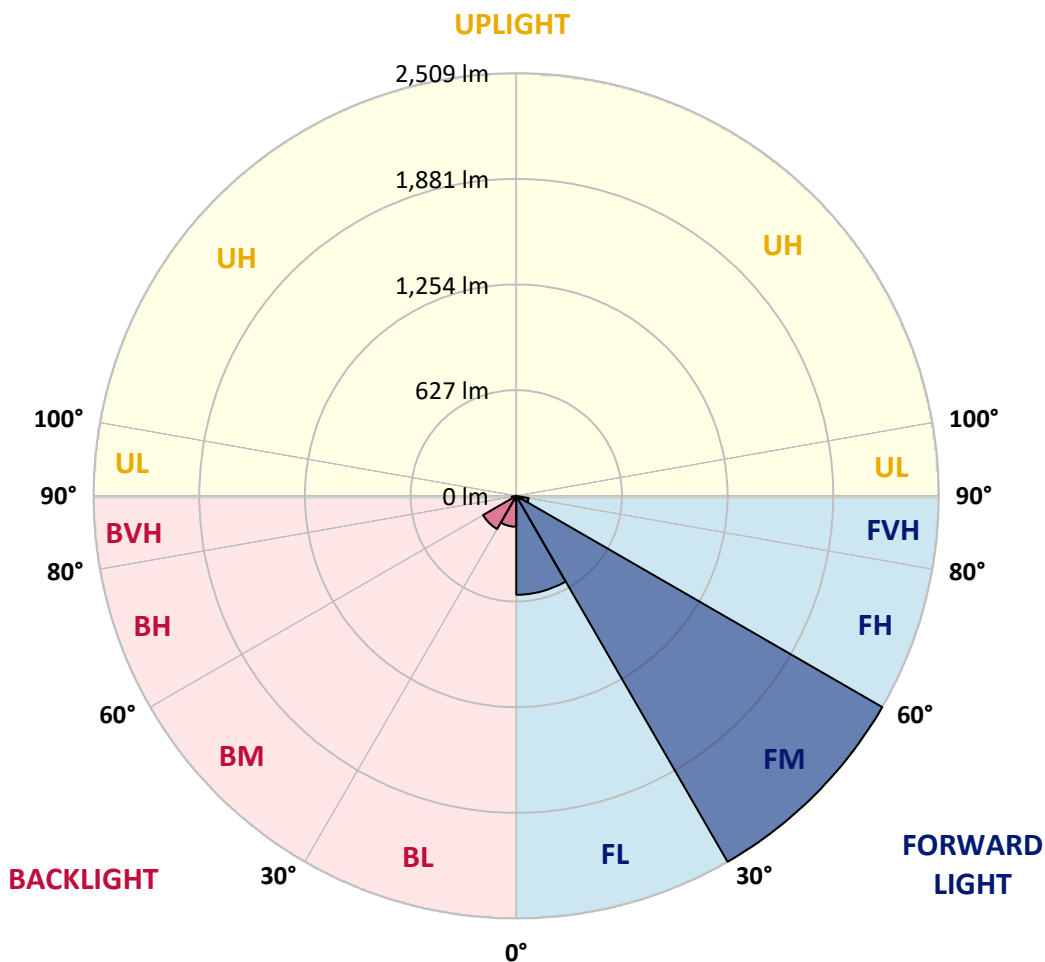


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.3	16.3			
FM (30°-60°)	2508.5	69.4			
FH (60°-80°)	74.7	2.1			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	183.7	5.1	B1/500		
BM (30°-60°)	227.6	6.3	B1/1000		
BH (60°-80°)	26.5	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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





REPORT NUMBER: P652157

CATALOG NUMBER: GALN-SA1B-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1264.3	1235.3	1238.0	1218.9	1207.9	1190.0	1165.8	1161.1	1134.8	1098.9	1062.6
5°	1378.0	1371.2	1380.1	1352.7	1353.8	1324.3	1267.4	1268.5	1207.9	1149.5	1093.1
7.5°	1385.4	1369.6	1378.6	1402.8	1417.0	1411.7	1379.6	1351.7	1294.3	1208.4	1126.4
10°	1240.6	1270.6	1280.1	1320.1	1377.0	1437.0	1433.3	1434.9	1387.0	1274.8	1154.8
12.5°	1153.7	1133.7	1165.8	1190.0	1275.9	1392.2	1445.4	1456.9	1460.6	1339.0	1183.2
15°	1114.2	1114.2	1119.5	1126.4	1188.4	1295.9	1404.3	1438.0	1517.6	1423.3	1227.9
17.5°	1139.0	1137.9	1145.3	1131.1	1154.2	1236.9	1366.5	1404.9	1581.2	1506.0	1263.2
20°	1214.2	1217.9	1213.2	1172.1	1173.7	1235.8	1324.3	1384.9	1624.5	1577.5	1310.1
22.5°	1319.0	1321.1	1294.3	1249.6	1236.4	1266.9	1348.5	1394.9	1659.2	1663.4	1324.3
25°	1440.1	1431.7	1426.4	1363.3	1323.2	1349.6	1403.3	1430.1	1680.7	1737.1	1364.9
27.5°	1608.1	1591.3	1559.1	1502.8	1473.3	1435.9	1474.4	1518.6	1742.4	1840.4	1409.1
30°	1856.1	1841.4	1778.7	1706.1	1628.7	1591.8	1603.9	1628.1	1853.5	1959.9	1467.5
32.5°	2229.5	2198.4	2107.8	1969.4	1864.0	1762.4	1759.2	1785.0	1953.0	2125.2	1537.0
35°	2640.7	2631.2	2498.0	2355.3	2151.5	1994.6	1997.2	2010.9	2143.6	2342.1	1628.1
37.5°	2914.0	2966.1	2881.4	2728.1	2557.0	2332.7	2275.7	2280.5	2405.3	2599.1	1792.4
40°	3125.2	3080.9	3090.9	3055.1	2938.2	2785.5	2659.7	2634.9	2708.1	2883.5	1955.7
42.5°	3033.0	3035.1	3096.7	3181.5	3210.4	3199.3	3070.9	3024.1	2967.1	3116.2	2111.0
45°	2772.9	2827.1	2907.2	3131.5	3328.3	3513.2	3488.0	3410.0	3146.2	3300.5	2200.5
47.5°	2357.9	2355.8	2486.9	2778.7	3216.2	3649.0	3763.8	3709.1	3273.1	3279.9	2182.1
48°	2204.7	2242.6	2377.9	2721.2	3145.2	3629.1	3788.6	3719.6	3251.5	3252.6	2166.2
50°	1629.7	1622.9	1791.3	2212.6	2809.2	3410.0	3684.3	3738.1	3251.0	3114.1	2055.7
52.5°	860.9	890.5	1013.1	1391.2	1986.2	2790.8	3250.0	3333.6	3136.2	2887.7	1896.6
55°	365.9	330.7	425.0	628.1	1117.4	1864.6	2384.2	2570.7	2651.8	2555.4	1659.2
57.5°	130.6	142.7	164.2	236.4	469.7	1020.5	1421.7	1566.5	1837.2	1875.1	1130.6
60°	83.8	85.3	92.2	108.5	176.4	393.3	674.5	789.9	912.5	942.0	527.6
62.5°	64.8	65.3	68.5	71.1	83.8	152.7	253.3	300.2	311.8	268.0	138.5
65°	54.2	54.7	55.8	55.8	59.5	71.7	88.5	97.4	94.8	93.7	78.5
67.5°	41.6	42.6	44.7	44.7	46.8	43.7	48.9	52.1	59.0	71.7	66.9
70°	32.6	33.1	34.7	35.8	35.8	31.6	35.2	38.4	43.1	53.2	52.6
72.5°	25.3	26.3	27.4	27.4	25.8	21.6	25.3	27.9	31.0	36.8	35.8
75°	19.5	19.5	20.0	16.3	12.6	11.0	15.3	18.4	23.1	24.2	20.0
77.5°	5.3	5.8	5.3	4.7	5.3	7.9	10.0	11.6	14.7	14.7	13.2
80°	0.0	0.5	1.6	3.2	5.3	7.4	8.9	10.0	11.6	12.6	12.1
82.5°	0.0	0.5	1.6	3.2	4.7	5.8	7.9	8.4	9.5	11.0	11.0
85°	0.0	0.5	1.1	2.1	3.2	3.7	3.7	3.2	3.2	2.6	2.1
87.5°	0.0	0.0	0.5	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6
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: P652157

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1048.4	1032.1	1007.3	968.3	931.0	906.8	883.6	857.7	843.5	842.5	834.6
5°	1061.0	1024.2	965.2	898.3	826.7	765.1	703.0	662.4	626.0	606.1	602.4
7.5°	1067.9	1020.0	924.6	812.5	690.3	589.7	520.2	469.2	449.2	434.4	433.9
10°	1082.1	1012.6	864.0	698.7	547.7	446.0	398.0	374.9	363.8	359.6	353.3
12.5°	1092.6	998.9	802.0	581.9	432.9	369.6	348.6	343.3	343.9	346.0	343.3
15°	1107.3	986.7	718.2	477.6	363.3	332.8	332.8	333.9	341.2	342.3	341.7
17.5°	1106.3	963.1	631.8	393.3	321.2	317.0	318.6	328.6	333.3	334.9	331.2
20°	1119.0	941.0	542.9	336.0	297.5	303.9	314.4	317.0	322.8	323.9	319.6
22.5°	1115.3	885.7	460.2	290.6	279.6	291.7	302.3	305.4	303.9	300.7	300.2
25°	1108.4	838.3	384.4	260.6	266.4	279.6	289.6	283.8	280.6	281.1	281.7
27.5°	1096.3	778.3	321.8	239.6	248.5	268.0	267.5	265.4	268.5	265.9	268.5
30°	1094.2	718.2	270.1	220.6	235.4	249.6	250.6	254.3	258.0	253.3	258.0
32.5°	1097.3	652.4	233.3	209.1	227.5	228.0	239.6	243.3	240.6	230.1	231.2
35°	1121.6	601.8	206.4	202.8	214.9	215.4	226.4	221.7	210.1	203.8	207.5
37.5°	1172.6	559.8	193.8	197.0	198.0	204.9	205.4	195.9	197.0	196.4	198.5
40°	1238.0	527.6	184.9	191.7	190.7	195.4	176.4	181.7	186.4	188.0	189.1
42.5°	1282.7	504.4	179.0	183.3	181.2	172.7	162.1	167.4	171.1	176.9	178.0
45°	1302.7	486.0	172.2	168.5	168.5	153.2	149.0	150.0	158.5	164.8	163.7
47.5°	1270.1	468.1	160.0	149.0	152.7	140.0	135.3	135.3	144.3	152.1	150.6
48°	1257.5	460.7	160.6	144.8	147.4	137.9	133.2	132.2	142.1	149.5	149.5
50°	1194.7	433.4	146.9	133.2	127.9	126.9	123.7	124.8	131.1	137.9	137.9
52.5°	1072.6	374.4	124.3	114.3	104.8	111.1	112.7	110.6	113.7	120.1	119.5
55°	895.2	287.5	99.5	94.8	87.4	94.3	97.4	94.8	91.6	96.4	96.4
57.5°	573.4	154.8	79.5	80.6	73.2	80.1	82.7	76.4	70.6	74.3	73.8
60°	258.5	92.7	65.3	63.7	59.0	66.9	71.1	63.7	55.8	58.4	61.1
62.5°	96.9	65.9	49.5	48.4	47.3	54.7	56.9	51.0	43.1	44.7	45.2
65°	71.1	57.9	39.5	35.8	37.9	43.1	42.1	36.3	31.0	31.0	32.1
67.5°	60.6	50.5	32.1	27.9	27.9	28.4	26.3	23.1	21.6	22.6	23.7
70°	47.3	40.0	25.3	21.6	19.5	17.4	15.3	14.7	13.2	14.7	14.2
72.5°	30.5	26.8	19.5	16.3	14.7	12.1	10.0	9.5	7.9	7.4	7.4
75°	16.3	16.3	15.3	13.2	11.6	9.5	7.9	6.3	4.2	3.2	3.2
77.5°	11.6	12.6	13.7	12.6	10.5	7.9	6.3	4.2	2.1	1.1	1.1
80°	11.0	12.6	13.7	12.1	10.5	7.9	5.8	3.2	1.6	0.5	0.5
82.5°	10.0	11.6	12.6	11.0	9.5	6.8	5.3	3.2	1.6	0.5	0.5
85°	2.1	2.6	3.2	3.2	3.7	4.7	3.7	2.6	1.1	0.5	0.5
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	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)