

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: P650672

Luminaire Tested: **GALN-SA1C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650672
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-SA1C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA 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: 4462.3 lumens
Efficiency: N/A
Efficacy: 78.3 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

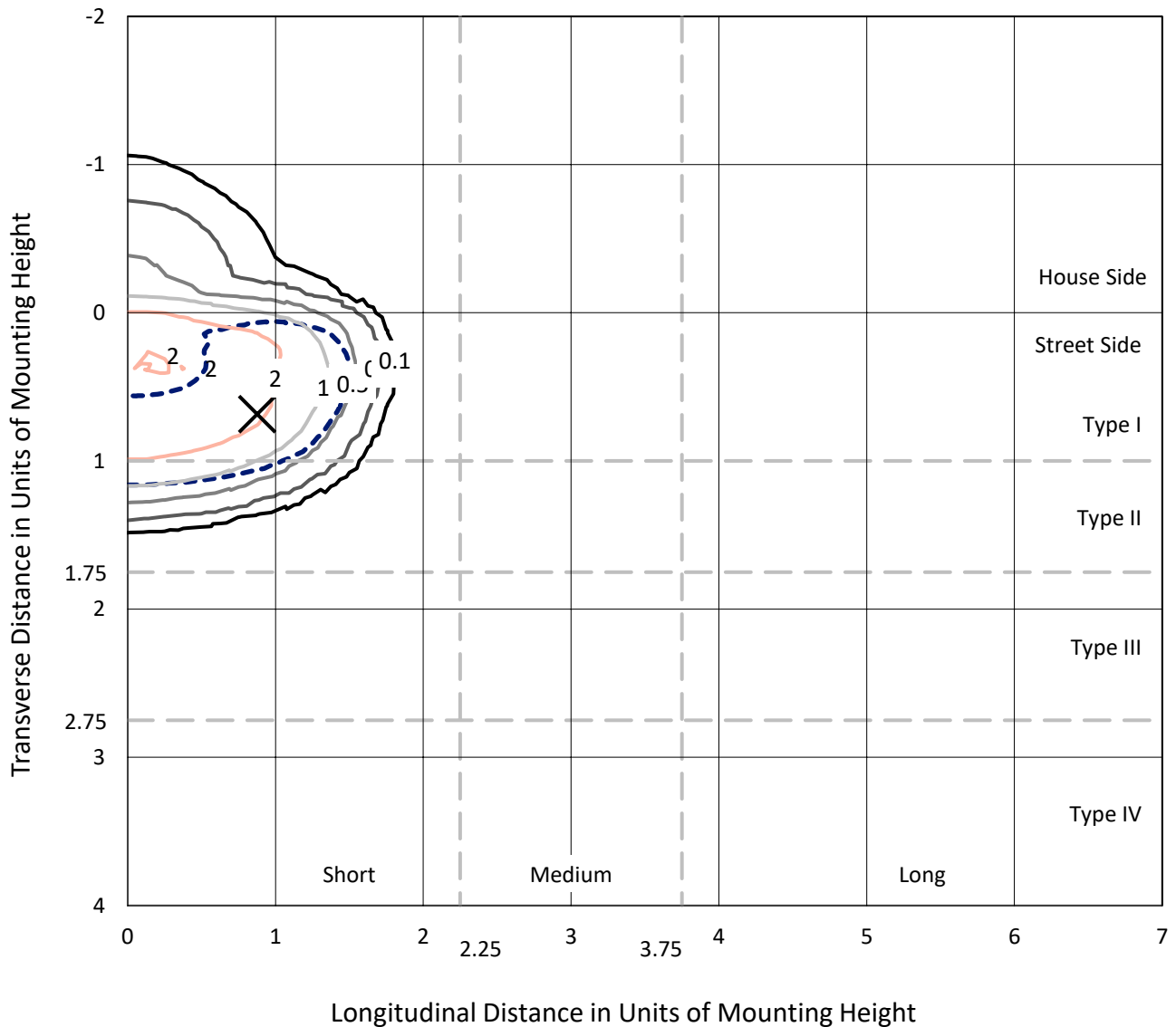
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650672
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

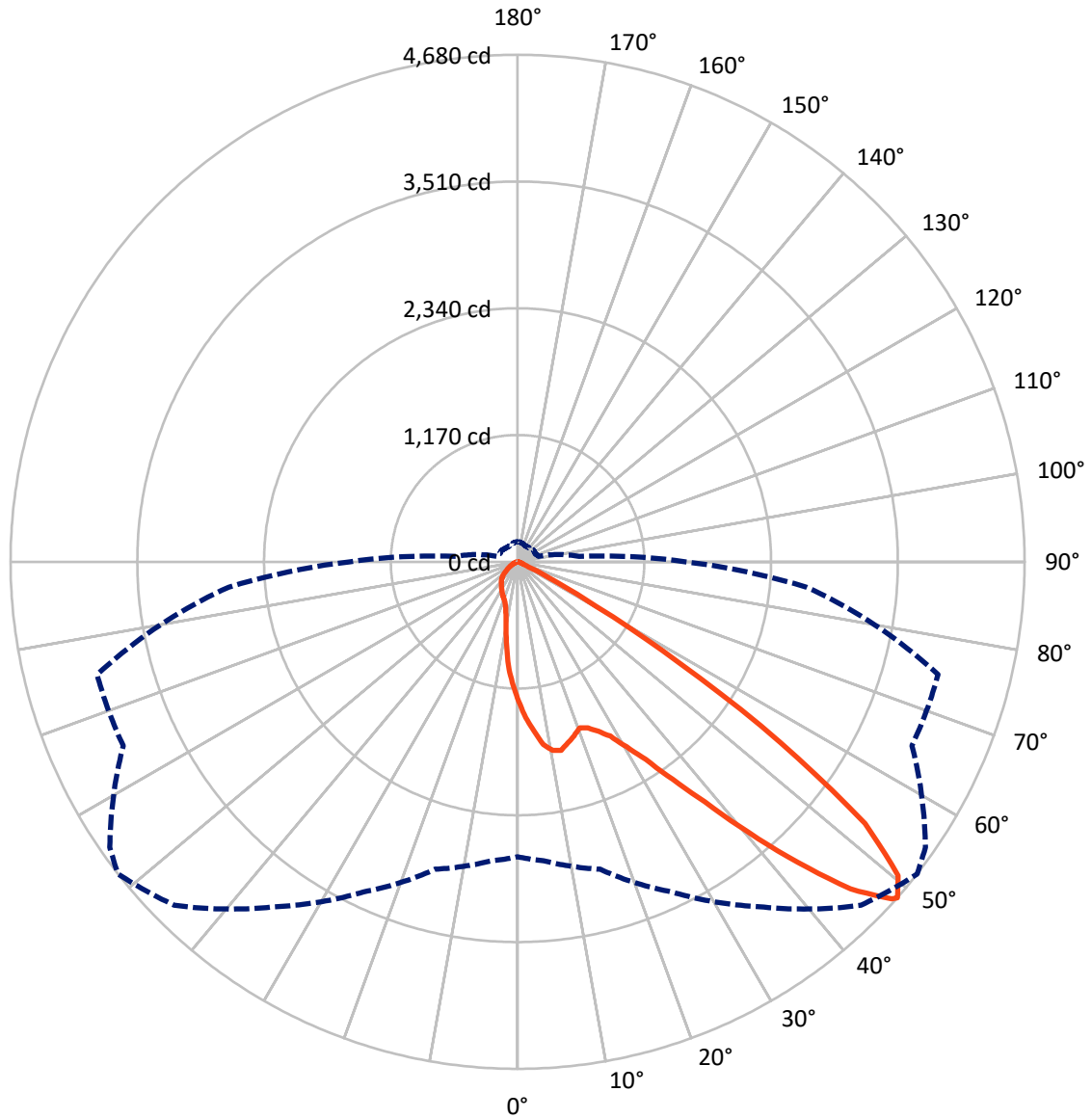
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

REPORT NUMBER: P650672
CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650672
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

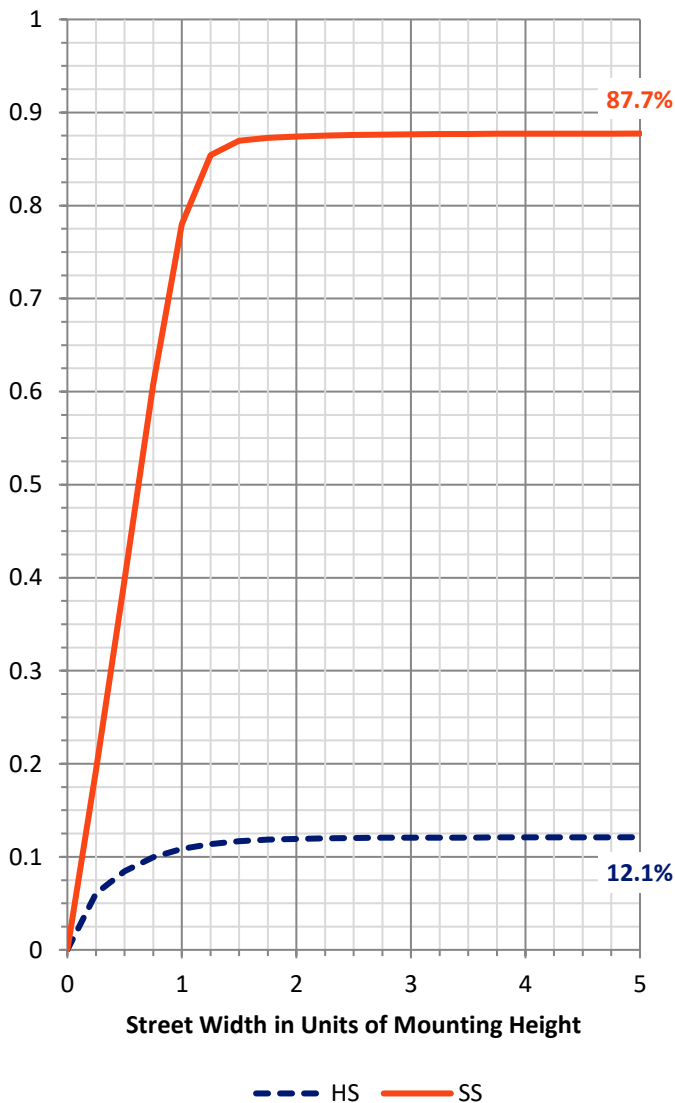
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.3	0.0	543.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3919.0	0.0	3919.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	4462.3	0.0	4462.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.6
10°-20°	308.2	6.9
20°-30°	526.3	11.8
30°-40°	969.2	21.7
40°-50°	1505.1	33.7
50°-60°	905.8	20.3
60°-70°	104.8	2.3
70°-80°	20.3	0.5
80°-90°	4.7	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°	4462.3	100.0
0°-180°	4462.3	100.0

Coefficient of Utilization

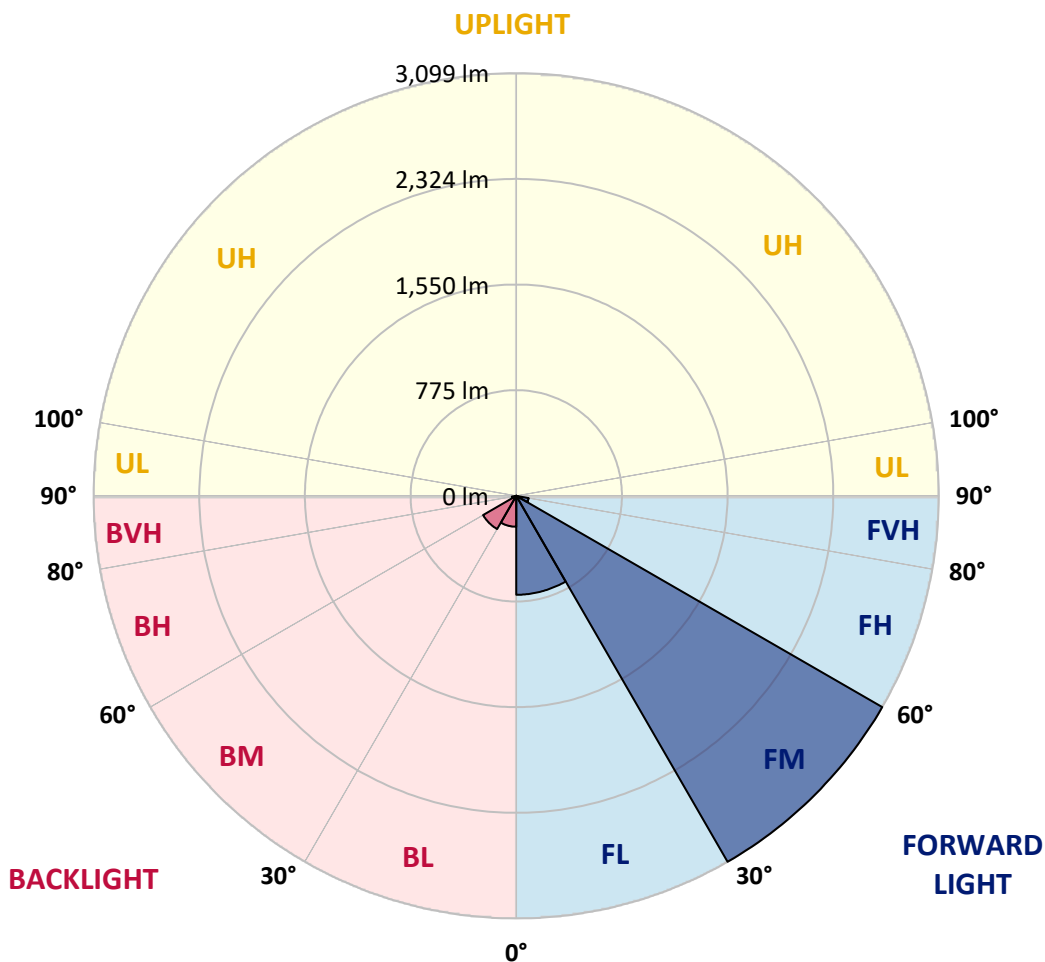


REPORT NUMBER: P650672
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.5	16.3			
FM (30°-60°)	3099.0	69.4			
FH (60°-80°)	92.3	2.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	227.0	5.1	B1/500		
BM (30°-60°)	281.1	6.3	B1/1000		
BH (60°-80°)	32.8	0.7	B0/110		G0/110
BVH (80°-90°)	2.5	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: P650672

CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1561.9	1526.1	1529.4	1505.9	1492.3	1470.2	1440.2	1434.3	1401.9	1357.6	1312.7
5°	1702.4	1693.9	1705.0	1671.2	1672.4	1636.0	1565.8	1567.0	1492.3	1420.0	1350.5
7.5°	1711.5	1691.9	1703.0	1733.0	1750.5	1744.0	1704.3	1669.9	1598.9	1492.9	1391.4
10°	1532.6	1569.6	1581.4	1630.8	1701.1	1775.3	1770.6	1772.7	1713.5	1574.9	1426.6
12.5°	1425.2	1400.5	1440.2	1470.2	1576.2	1719.9	1785.6	1799.9	1804.5	1654.2	1461.7
15°	1376.5	1376.5	1382.9	1391.4	1468.2	1600.9	1734.9	1776.5	1874.8	1758.3	1517.0
17.5°	1407.1	1405.7	1414.8	1397.3	1425.9	1528.0	1688.1	1735.6	1953.5	1860.5	1560.6
20°	1500.1	1504.6	1498.7	1448.0	1450.0	1526.8	1636.0	1710.8	2006.8	1948.9	1618.4
22.5°	1629.5	1632.1	1598.9	1543.7	1527.4	1565.1	1665.9	1723.2	2049.8	2055.0	1636.0
25°	1779.1	1768.7	1762.2	1684.2	1634.7	1667.3	1733.6	1766.8	2076.4	2146.0	1686.1
27.5°	1986.6	1965.8	1926.1	1856.5	1820.1	1773.9	1821.4	1876.0	2152.5	2273.5	1740.8
30°	2293.1	2274.8	2197.4	2107.6	2012.0	1966.5	1981.5	2011.3	2289.8	2421.2	1812.9
32.5°	2754.3	2715.8	2604.0	2432.9	2302.8	2177.3	2173.3	2205.2	2412.7	2625.4	1898.8
35°	3262.3	3250.5	3086.0	2909.7	2658.0	2464.1	2467.3	2484.3	2648.2	2893.5	2011.3
37.5°	3599.9	3664.3	3559.5	3370.3	3158.9	2881.8	2811.5	2817.4	2971.5	3210.9	2214.4
40°	3860.8	3806.1	3818.5	3774.2	3629.8	3441.2	3285.7	3255.1	3345.6	3562.1	2415.9
42.5°	3746.9	3749.5	3825.6	3930.3	3966.2	3952.4	3793.8	3735.9	3665.6	3849.7	2607.9
45°	3425.6	3492.6	3591.4	3868.5	4111.8	4340.1	4308.9	4212.7	3886.8	4077.3	2718.4
47.5°	2913.0	2910.4	3072.3	3432.7	3973.3	4508.0	4649.8	4582.2	4043.5	4052.0	2695.7
48°	2723.7	2770.5	2937.7	3361.8	3885.5	4483.3	4680.4	4595.1	4016.9	4018.2	2676.1
50°	2013.4	2004.9	2213.0	2733.4	3470.5	4212.7	4551.6	4617.9	4016.2	3847.1	2539.6
52.5°	1063.6	1100.0	1251.6	1718.7	2453.7	3447.7	4014.9	4118.4	3874.4	3567.4	2343.1
55°	452.1	408.6	525.0	776.1	1380.3	2303.4	2945.5	3175.8	3275.9	3156.9	2049.8
57.5°	161.3	176.3	202.9	292.1	580.3	1260.7	1756.3	1935.2	2269.6	2316.5	1396.6
60°	103.4	105.4	113.9	134.0	217.9	485.9	833.3	975.7	1127.4	1163.8	651.8
62.5°	80.0	80.7	84.6	87.8	103.4	188.6	312.9	370.8	385.1	331.1	171.1
65°	67.0	67.6	69.0	69.0	73.5	88.5	109.2	120.3	117.1	115.8	97.0
67.5°	51.4	52.7	55.3	55.3	57.9	54.0	60.5	64.4	72.8	88.5	82.6
70°	40.4	41.0	43.0	44.2	44.2	39.0	43.6	47.5	53.3	65.7	65.0
72.5°	31.2	32.5	33.8	33.8	31.9	26.7	31.2	34.5	38.3	45.5	44.2
75°	24.1	24.1	24.7	20.2	15.6	13.6	18.8	22.8	28.6	29.9	24.7
77.5°	6.5	7.1	6.5	5.9	6.5	9.8	12.4	14.3	18.2	18.2	16.2
80°	0.0	0.7	1.9	3.9	6.5	9.1	11.0	12.4	14.3	15.6	15.0
82.5°	0.0	0.7	1.9	3.9	5.9	7.1	9.8	10.4	11.7	13.6	13.6
85°	0.0	0.7	1.3	2.6	3.9	4.5	4.5	3.9	3.9	3.3	2.6
87.5°	0.0	0.0	0.7	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
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: P650672

CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1295.1	1275.0	1244.4	1196.2	1150.1	1120.2	1091.5	1059.7	1042.1	1040.8	1031.1
5°	1310.8	1265.2	1192.4	1109.8	1021.3	945.2	868.4	818.4	773.5	748.7	744.2
7.5°	1319.2	1260.1	1142.2	1003.7	852.8	728.6	642.7	579.6	554.9	536.6	536.1
10°	1336.8	1250.9	1067.5	863.2	676.5	550.9	491.8	463.1	449.5	444.3	436.5
12.5°	1349.8	1234.0	990.7	718.8	534.7	456.7	430.7	424.1	424.8	427.4	424.1
15°	1368.1	1219.0	887.3	590.0	448.8	411.1	411.1	412.4	421.5	422.9	422.2
17.5°	1366.7	1189.8	780.6	485.9	396.8	391.6	393.6	406.0	411.8	413.7	409.1
20°	1382.4	1162.4	670.7	415.0	367.5	375.3	388.4	391.6	398.7	400.1	394.8
22.5°	1377.8	1094.1	568.5	359.1	345.4	360.4	373.4	377.3	375.3	371.5	370.8
25°	1369.3	1035.6	474.8	322.0	329.2	345.4	357.8	350.6	346.7	347.3	348.0
27.5°	1354.3	961.4	397.5	295.9	307.0	331.1	330.4	327.8	331.8	328.5	331.8
30°	1351.7	887.3	333.7	272.6	290.8	308.3	309.7	314.2	318.7	312.9	318.7
32.5°	1355.7	806.0	288.2	258.3	281.0	281.7	295.9	300.6	297.3	284.3	285.6
35°	1385.5	743.5	255.0	250.4	265.4	266.1	279.7	273.8	259.5	251.7	256.3
37.5°	1448.7	691.5	239.3	243.3	244.6	253.1	253.7	242.0	243.3	242.6	245.2
40°	1529.4	651.8	228.3	236.8	235.5	241.4	217.9	224.5	230.3	232.2	233.5
42.5°	1584.6	623.2	221.2	226.4	223.8	213.4	200.3	206.9	211.4	218.6	219.8
45°	1609.3	600.4	212.7	208.1	208.1	189.3	184.1	185.4	195.8	203.6	202.3
47.5°	1569.1	578.3	197.7	184.1	188.6	173.0	167.2	167.2	178.2	188.0	186.0
48°	1553.4	569.2	198.4	178.9	182.2	170.5	164.6	163.2	175.6	184.8	184.8
50°	1476.0	535.4	181.5	164.6	158.1	156.8	152.9	154.2	162.0	170.5	170.5
52.5°	1325.1	462.6	153.5	141.1	129.4	137.3	139.2	136.6	140.5	148.4	147.7
55°	1105.8	355.2	123.0	117.1	108.0	116.5	120.3	117.1	113.2	119.0	119.0
57.5°	708.4	191.2	98.2	99.5	90.4	98.9	102.1	94.4	87.1	91.8	91.1
60°	319.4	114.5	80.7	78.7	72.8	82.6	87.8	78.7	69.0	72.2	75.4
62.5°	119.7	81.3	61.1	59.9	58.5	67.6	70.2	63.1	53.3	55.3	55.9
65°	87.8	71.6	48.8	44.2	46.8	53.3	52.1	44.9	38.3	38.3	39.7
67.5°	74.8	62.5	39.7	34.5	34.5	35.2	32.5	28.6	26.7	28.0	29.3
70°	58.5	49.5	31.2	26.7	24.1	21.4	18.8	18.2	16.2	18.2	17.6
72.5°	37.8	33.1	24.1	20.2	18.2	15.0	12.4	11.7	9.8	9.1	9.1
75°	20.2	20.2	18.8	16.2	14.3	11.7	9.8	7.8	5.2	3.9	3.9
77.5°	14.3	15.6	16.9	15.6	13.0	9.8	7.8	5.2	2.6	1.3	1.3
80°	13.6	15.6	16.9	15.0	13.0	9.8	7.1	3.9	1.9	0.7	0.7
82.5°	12.4	14.3	15.6	13.6	11.7	8.5	6.5	3.9	1.9	0.7	0.7
85°	2.6	3.3	3.9	3.9	4.5	5.9	4.5	3.3	1.3	0.7	0.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	0.7	0.7	0.7
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)