

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: P647207

Luminaire Tested: **GALN-SA1D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647207
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-SA1D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 4571.9 lumens
Efficiency: N/A
Efficacy: 70.3 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

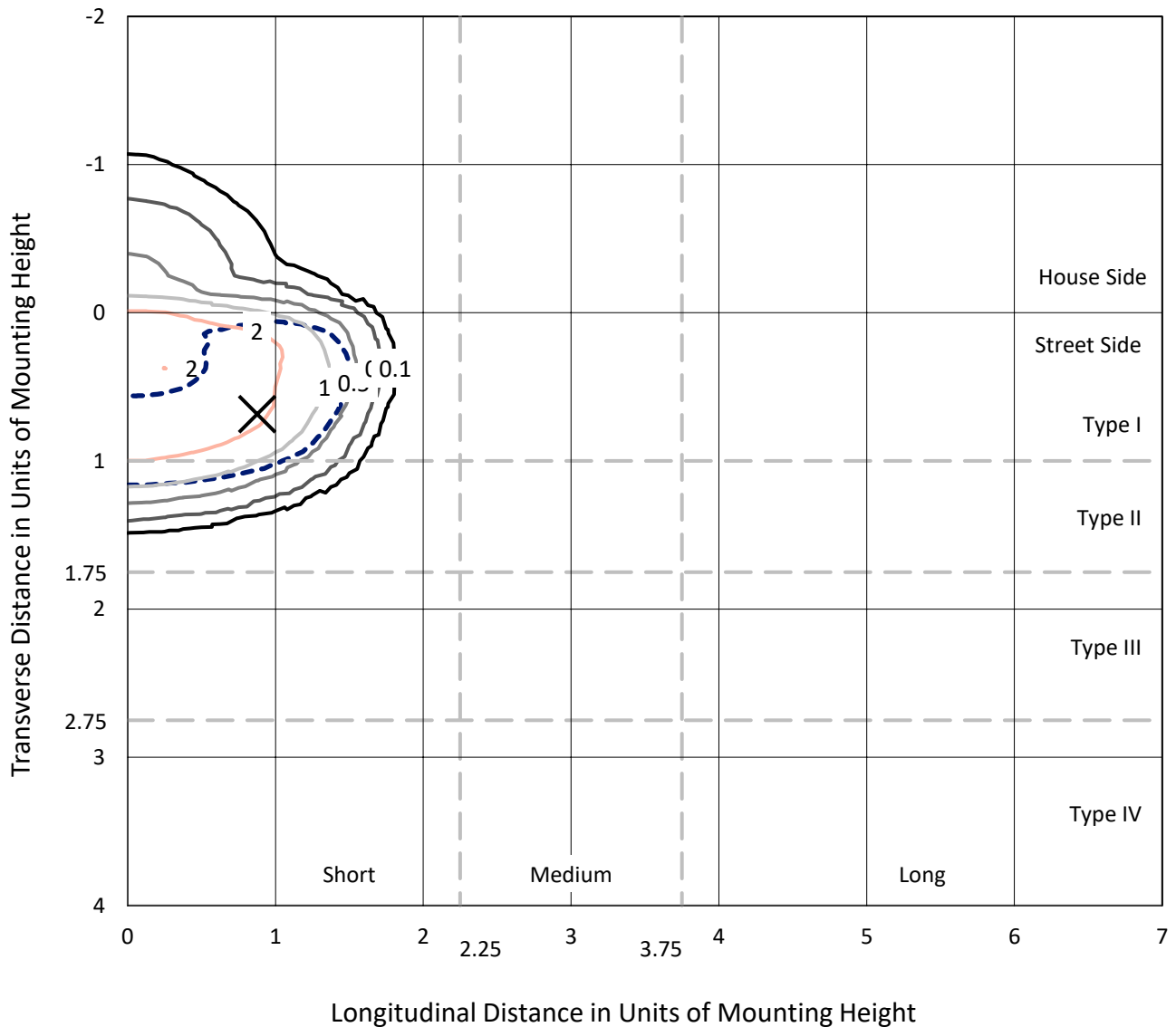
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

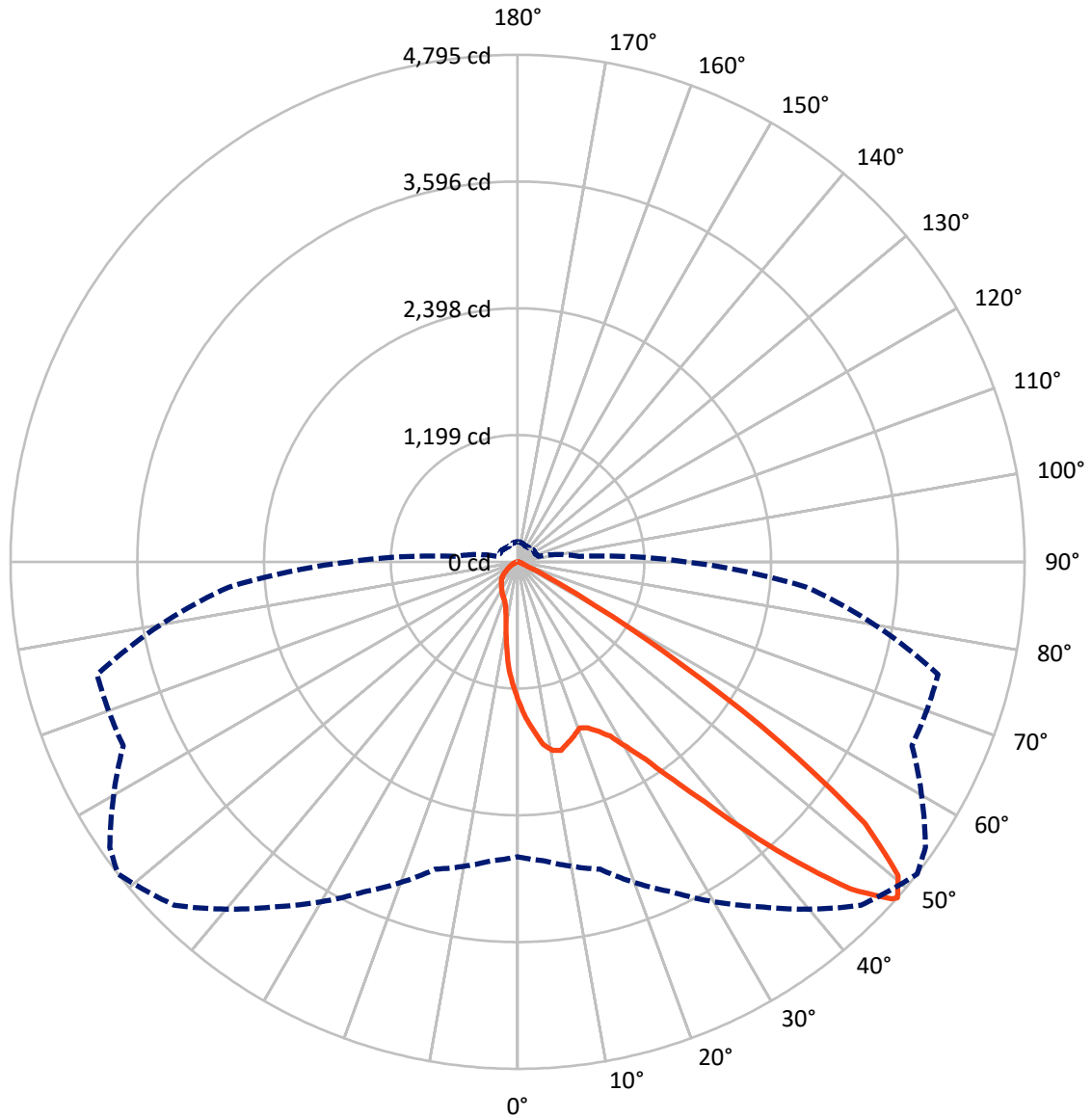
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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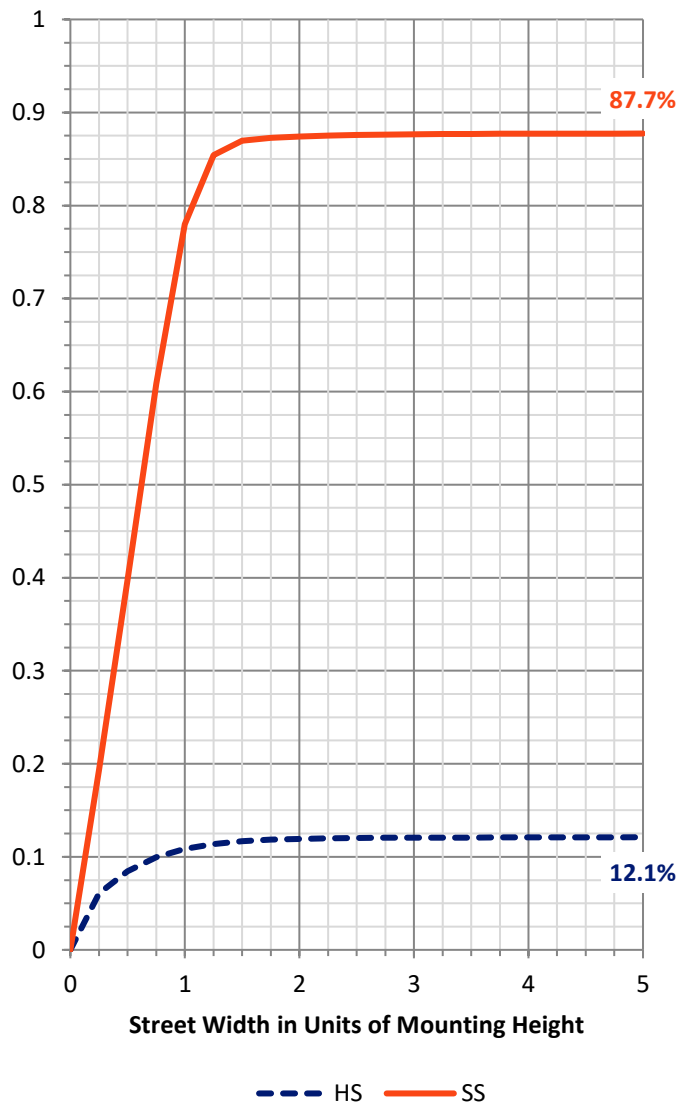
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.7	0.0	556.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4015.3	0.0	4015.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	4571.9	0.0	4571.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.6
10°-20°	315.8	6.9
20°-30°	539.2	11.8
30°-40°	993.0	21.7
40°-50°	1542.1	33.7
50°-60°	928.1	20.3
60°-70°	107.3	2.3
70°-80°	20.8	0.5
80°-90°	4.8	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°	4571.9	100.0
0°-180°	4571.9	100.0

Coefficient of Utilization

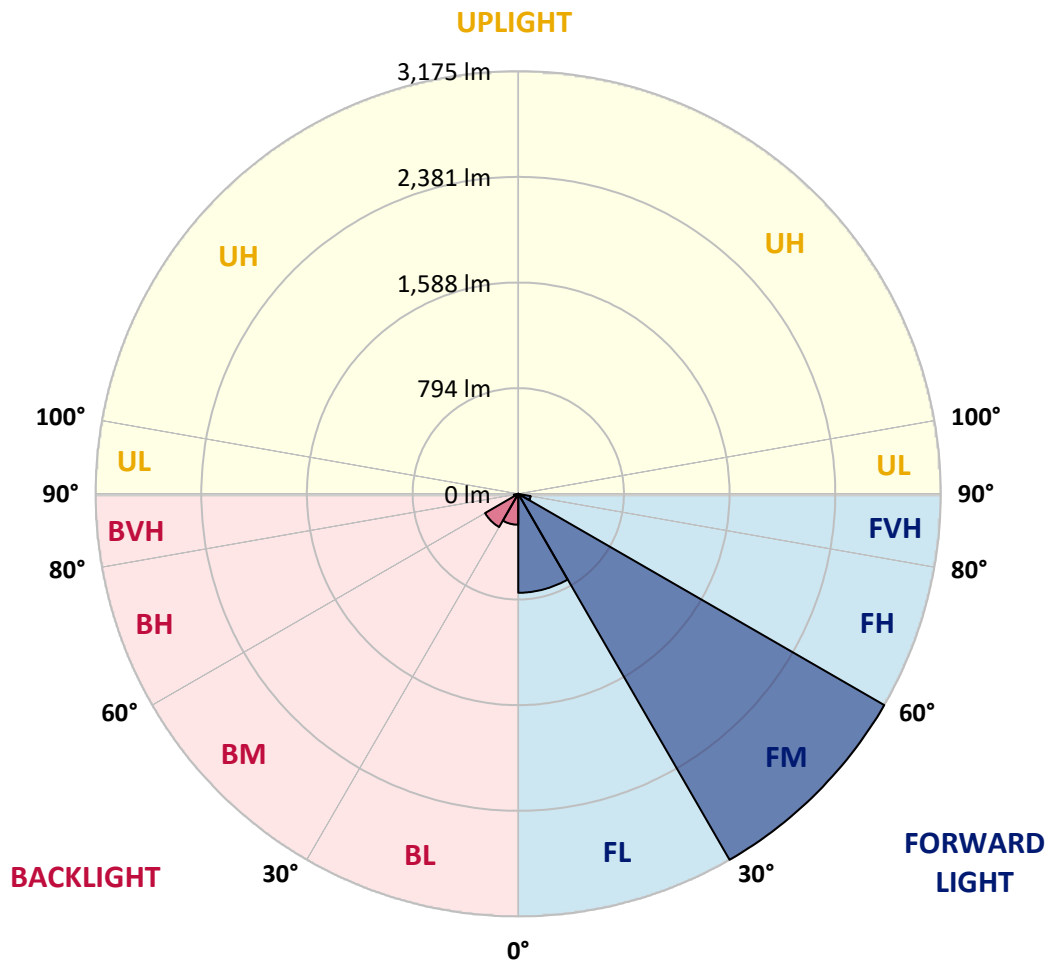


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.3	16.3			
FM (30°-60°)	3175.1	69.4			
FH (60°-80°)	94.5	2.1			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	232.5	5.1	B1/500		
BM (30°-60°)	288.0	6.3	B1/1000		
BH (60°-80°)	33.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3
2.5°	1600.2	1563.6	1566.9	1542.9	1528.9	1506.3	1475.6	1469.6	1436.3	1390.9	1345.0
5°	1744.2	1735.5	1746.9	1712.2	1713.5	1676.2	1604.2	1605.5	1528.9	1454.9	1383.6
7.5°	1753.5	1733.5	1744.8	1775.5	1793.5	1786.8	1746.2	1710.9	1638.2	1529.6	1425.6
10°	1570.2	1608.2	1620.2	1670.8	1742.9	1818.8	1814.1	1816.2	1755.5	1613.5	1461.6
12.5°	1460.3	1434.9	1475.6	1506.3	1614.9	1762.1	1829.5	1844.1	1848.8	1694.9	1497.6
15°	1410.3	1410.3	1416.9	1425.6	1504.2	1640.2	1777.5	1820.2	1920.8	1801.5	1554.3
17.5°	1441.6	1440.3	1449.6	1431.6	1460.9	1565.5	1729.5	1778.2	2001.4	1906.1	1598.9
20°	1536.9	1541.6	1535.5	1483.6	1485.6	1564.2	1676.2	1752.8	2056.1	1996.8	1658.2
22.5°	1669.5	1672.2	1638.2	1581.6	1564.9	1603.6	1706.9	1765.5	2100.1	2105.4	1676.2
25°	1822.8	1812.2	1805.5	1725.5	1674.8	1708.2	1776.2	1810.1	2127.4	2198.7	1727.5
27.5°	2035.4	2014.1	1973.5	1902.1	1864.8	1817.5	1866.1	1922.1	2205.4	2329.3	1783.5
30°	2349.3	2330.7	2251.4	2159.4	2061.4	2014.7	2030.1	2060.8	2346.0	2480.6	1857.5
32.5°	2821.9	2782.5	2667.9	2492.6	2359.3	2230.7	2226.7	2259.3	2472.0	2689.9	1945.4
35°	3342.4	3330.4	3161.8	2981.2	2723.3	2524.6	2528.0	2545.3	2713.3	2964.5	2060.8
37.5°	3688.3	3754.3	3647.0	3453.0	3236.5	2952.5	2880.5	2886.5	3044.5	3289.8	2268.7
40°	3955.6	3899.6	3912.3	3866.9	3718.9	3525.7	3366.4	3335.1	3427.7	3649.6	2475.3
42.5°	3839.0	3841.6	3919.5	4026.9	4063.5	4049.5	3886.9	3827.6	3755.7	3944.2	2671.9
45°	3509.7	3578.3	3679.6	3963.5	4212.9	4446.7	4414.8	4316.1	3982.3	4177.5	2785.2
47.5°	2984.5	2981.8	3147.8	3517.0	4070.9	4618.7	4764.0	4694.7	4142.9	4151.5	2761.9
48°	2790.5	2838.5	3009.9	3444.3	3980.9	4593.4	4795.3	4708.0	4115.5	4116.9	2741.9
50°	2062.7	2054.1	2267.3	2800.6	3555.7	4316.1	4663.4	4731.4	4114.8	3941.5	2601.9
52.5°	1089.7	1127.1	1282.3	1760.8	2514.0	3532.3	4113.5	4219.5	3969.6	3655.0	2400.7
55°	463.2	418.5	537.8	795.1	1414.3	2360.0	3017.8	3253.8	3356.4	3234.4	2100.1
57.5°	165.3	180.6	208.0	299.3	594.5	1291.6	1799.5	1982.8	2325.4	2373.4	1430.9
60°	105.9	108.0	116.7	137.3	223.2	497.8	853.8	999.7	1155.0	1192.4	667.8
62.5°	82.0	82.6	86.7	90.0	105.9	193.2	320.6	379.9	394.6	339.3	175.3
65°	68.7	69.3	70.6	70.6	75.3	90.7	112.0	123.3	120.0	118.6	99.3
67.5°	52.6	53.9	56.7	56.7	59.4	55.3	62.0	66.0	74.6	90.7	84.6
70°	41.3	42.0	44.0	45.3	45.3	40.0	44.6	48.6	54.7	67.3	66.6
72.5°	32.0	33.4	34.7	34.7	32.7	27.3	32.0	35.3	39.3	46.7	45.3
75°	24.7	24.7	25.3	20.7	16.0	14.0	19.3	23.3	29.4	30.7	25.3
77.5°	6.7	7.4	6.7	6.0	6.7	10.0	12.7	14.6	18.6	18.6	16.7
80°	0.0	0.7	2.0	4.0	6.7	9.3	11.4	12.7	14.6	16.0	15.3
82.5°	0.0	0.7	2.0	4.0	6.0	7.4	10.0	10.6	12.0	14.0	14.0
85°	0.0	0.7	1.3	2.7	4.0	4.7	4.7	4.0	4.0	3.4	2.7
87.5°	0.0	0.0	0.7	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0
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°	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3	1320.3
2.5°	1327.0	1306.3	1275.0	1225.6	1178.3	1147.6	1118.4	1085.7	1067.7	1066.4	1056.3
5°	1342.9	1296.3	1221.6	1137.0	1046.4	968.4	889.7	838.4	792.5	767.1	762.5
7.5°	1351.6	1291.0	1170.4	1028.4	873.7	746.4	658.5	593.8	568.5	549.8	549.2
10°	1369.6	1281.6	1093.7	884.4	693.1	564.5	503.9	474.5	460.6	455.2	447.2
12.5°	1382.9	1264.3	1015.1	736.5	547.9	467.8	441.2	434.6	435.2	437.9	434.6
15°	1401.6	1249.0	909.1	604.5	459.9	421.3	421.3	422.6	431.9	433.2	432.5
17.5°	1400.2	1219.0	799.8	497.8	406.5	401.2	403.2	415.9	421.9	423.9	419.2
20°	1416.3	1191.0	687.2	425.2	376.5	384.5	397.9	401.2	408.6	409.9	404.6
22.5°	1411.6	1121.0	582.5	367.9	353.9	369.3	382.6	386.6	384.5	380.5	379.9
25°	1403.0	1061.0	486.6	329.9	337.2	353.9	366.6	359.2	355.2	355.9	356.6
27.5°	1387.6	985.1	407.2	303.3	314.6	339.3	338.6	335.9	339.9	336.6	339.9
30°	1385.0	909.1	341.9	279.2	297.9	315.9	317.3	321.9	326.6	320.6	326.6
32.5°	1389.0	825.8	295.3	264.6	287.9	288.6	303.3	307.9	304.6	291.3	292.6
35°	1419.6	761.8	261.3	256.6	271.9	272.6	286.6	280.6	265.9	257.9	262.6
37.5°	1484.3	708.5	245.2	249.2	250.6	259.3	260.0	247.9	249.2	248.6	251.3
40°	1566.9	667.8	234.0	242.6	241.2	247.3	223.2	230.0	235.9	238.0	239.3
42.5°	1623.6	638.5	226.6	231.9	229.3	218.6	205.3	212.0	216.6	223.9	225.3
45°	1648.8	615.1	217.9	213.3	213.3	193.9	188.6	190.0	200.6	208.6	207.3
47.5°	1607.6	592.5	202.6	188.6	193.2	177.3	171.3	171.3	182.6	192.6	190.6
48°	1591.5	583.2	203.3	183.3	186.6	174.6	168.7	167.2	179.9	189.3	189.3
50°	1512.2	548.5	186.0	168.7	161.9	160.6	156.6	157.9	165.9	174.6	174.6
52.5°	1357.6	473.9	157.3	144.6	132.6	140.6	142.7	139.9	144.0	152.0	151.3
55°	1133.0	363.9	126.0	120.0	110.6	119.3	123.3	120.0	116.0	122.0	122.0
57.5°	725.8	195.9	100.6	101.9	92.6	101.3	104.6	96.6	89.3	94.0	93.3
60°	327.2	117.3	82.6	80.6	74.6	84.6	90.0	80.6	70.6	74.0	77.3
62.5°	122.6	83.3	62.6	61.3	60.0	69.3	72.0	64.7	54.7	56.7	57.3
65°	90.0	73.3	50.0	45.3	48.0	54.7	53.3	46.0	39.3	39.3	40.6
67.5°	76.7	64.0	40.6	35.3	35.3	36.0	33.4	29.4	27.3	28.7	30.0
70°	60.0	50.7	32.0	27.3	24.7	22.0	19.3	18.6	16.7	18.6	18.0
72.5°	38.7	34.0	24.7	20.7	18.6	15.3	12.7	12.0	10.0	9.3	9.3
75°	20.7	20.7	19.3	16.7	14.6	12.0	10.0	8.0	5.3	4.0	4.0
77.5°	14.6	16.0	17.3	16.0	13.3	10.0	8.0	5.3	2.7	1.3	1.3
80°	14.0	16.0	17.3	15.3	13.3	10.0	7.4	4.0	2.0	0.7	0.7
82.5°	12.7	14.6	16.0	14.0	12.0	8.7	6.7	4.0	2.0	0.7	0.7
85°	2.7	3.4	4.0	4.0	4.7	6.0	4.7	3.4	1.3	0.7	0.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	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)