

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: P647733

Luminaire Tested: **GALN-SA1A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

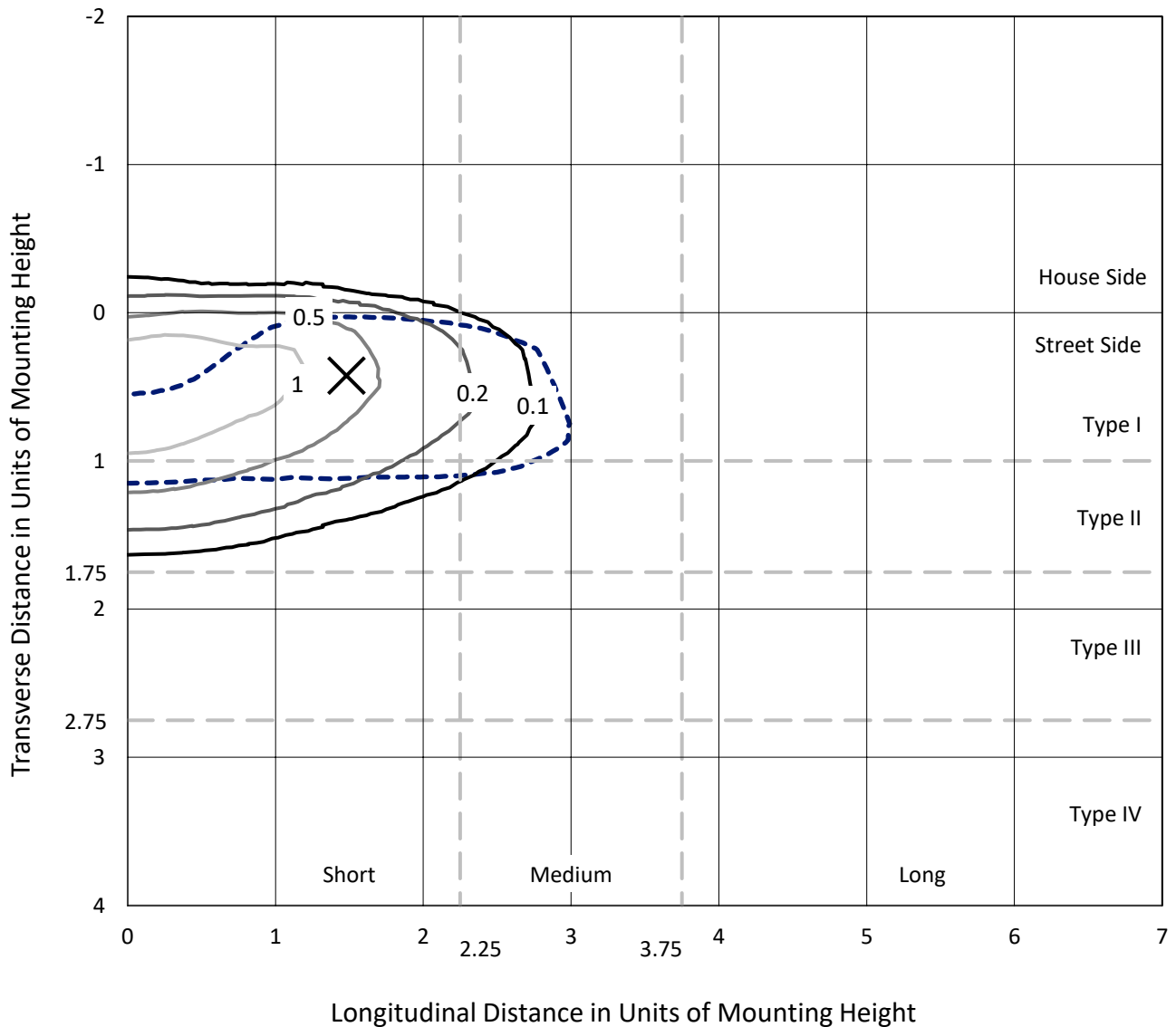
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

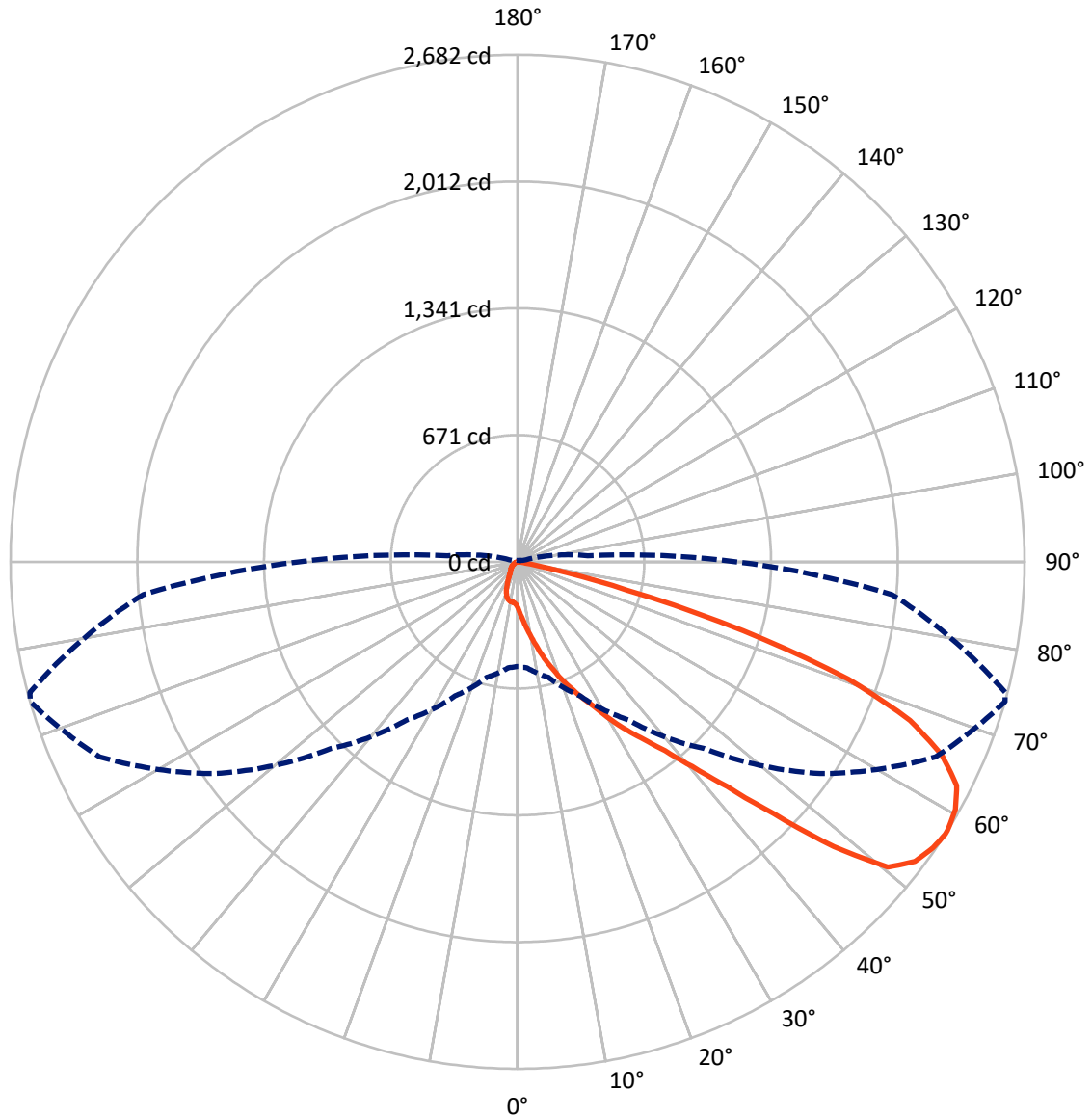
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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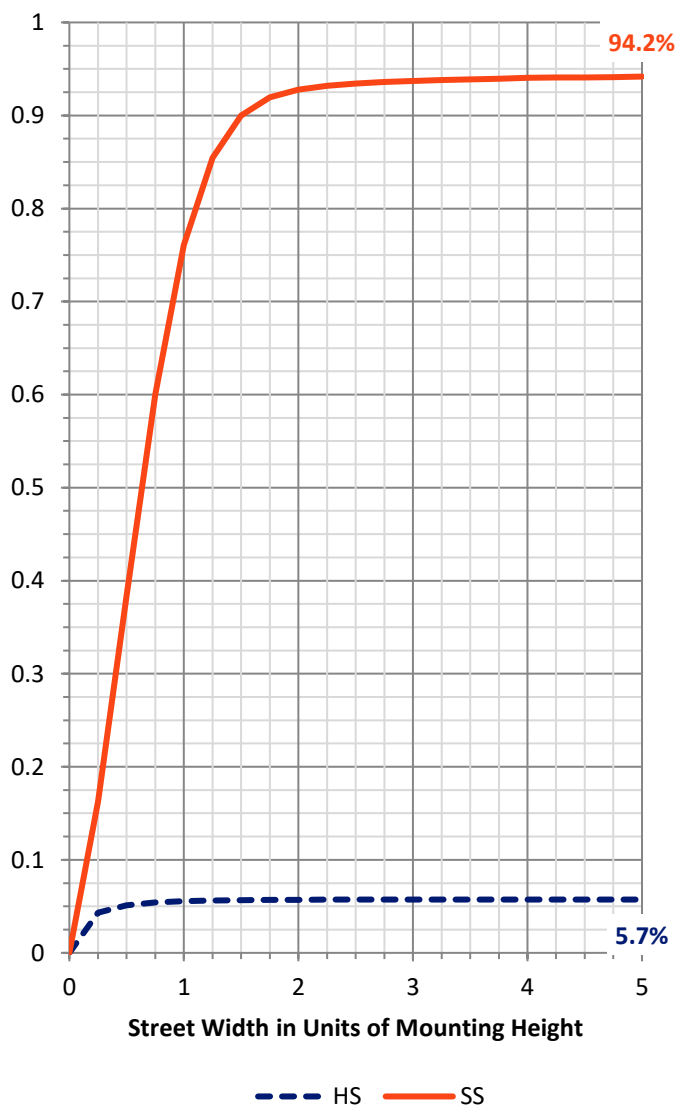
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.3	0.0	167.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	2733.7	0.0	2733.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	2901.0	0.0	2901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	1.0
10°-20°	115.6	4.0
20°-30°	247.3	8.5
30°-40°	454.6	15.7
40°-50°	696.9	24.0
50°-60°	737.2	25.4
60°-70°	481.4	16.6
70°-80°	131.5	4.5
80°-90°	7.1	0.2
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°	2901.0	100.0
0°-180°	2901.0	100.0

Coefficient of Utilization

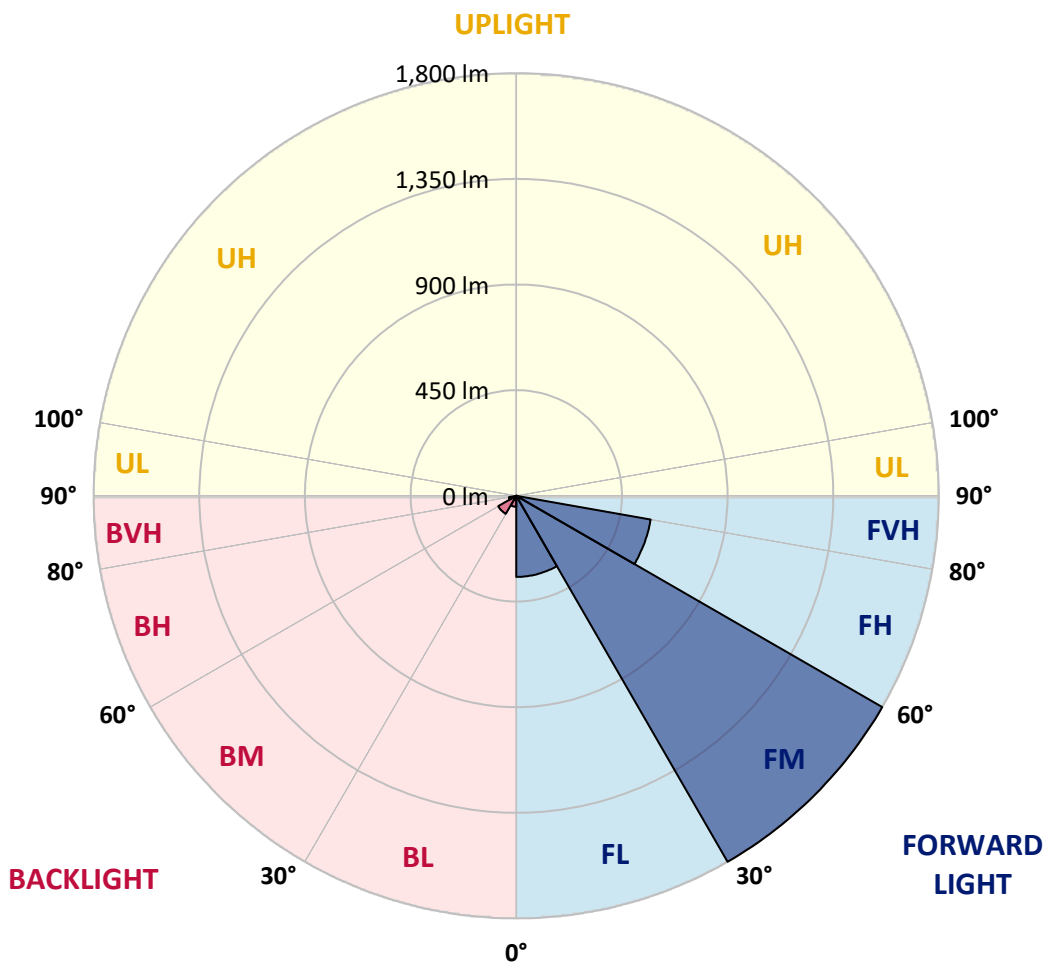


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.5	11.9			
FM (30°-60°)	1800.1	62.1			
FH (60°-80°)	581.6	20.0			G0/660
FVH (80°-90°)	6.5	0.2			G0/10
BL (0°-30°)	46.7	1.6	B0/110		
BM (30°-60°)	88.6	3.1	B0/220		
BH (60°-80°)	31.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0
2.5°	355.6	352.4	345.9	343.7	334.3	319.7	306.9	289.6	276.0	274.6	258.2
5°	476.1	468.9	465.9	451.5	428.8	407.6	371.1	343.5	311.6	309.3	276.2
7.5°	592.3	582.2	579.3	565.6	539.2	505.7	458.4	408.2	357.8	353.1	300.4
10°	676.4	677.8	672.4	663.4	641.9	607.9	549.6	480.9	409.0	403.2	327.7
12.5°	736.6	736.5	737.5	737.3	725.8	700.0	638.8	559.6	465.5	454.1	358.9
15°	776.0	776.5	779.6	790.0	791.1	775.2	724.0	634.9	531.0	516.8	392.8
17.5°	815.6	819.8	824.6	834.4	843.2	836.8	800.8	713.5	590.3	579.7	429.0
20°	881.1	886.9	884.1	890.1	894.7	895.3	867.5	786.0	662.2	644.3	470.5
22.5°	985.9	985.6	978.4	967.6	958.6	958.2	932.9	860.4	727.5	710.3	512.2
25°	1118.2	1118.8	1104.8	1074.0	1051.6	1024.1	995.0	925.7	797.4	776.1	556.0
27.5°	1270.0	1266.3	1245.0	1202.5	1158.1	1111.2	1069.3	1001.7	871.5	853.9	606.3
30°	1406.4	1405.1	1380.2	1328.4	1269.9	1222.8	1162.1	1096.8	967.4	945.8	662.6
32.5°	1533.4	1535.5	1501.0	1447.3	1390.8	1336.6	1272.5	1187.7	1061.6	1030.9	723.9
35°	1632.6	1634.6	1599.0	1554.3	1496.2	1451.1	1390.1	1284.7	1154.5	1128.6	794.4
37.5°	1685.5	1688.1	1667.5	1633.8	1597.6	1574.9	1518.0	1409.5	1267.4	1251.9	877.7
40°	1695.5	1698.5	1689.5	1680.5	1678.4	1694.6	1678.0	1556.4	1424.1	1399.7	1001.8
42.5°	1665.4	1669.4	1673.4	1693.5	1734.3	1793.9	1851.7	1756.0	1625.8	1592.9	1153.7
45°	1586.5	1586.1	1601.9	1653.9	1745.4	1872.3	2033.2	2005.7	1900.6	1861.5	1368.2
47.5°	1451.5	1449.5	1483.8	1557.7	1700.3	1886.8	2181.2	2309.0	2251.3	2215.3	1598.7
50°	1245.8	1255.6	1309.5	1412.7	1588.3	1843.1	2226.9	2507.9	2539.1	2500.9	1785.0
52.5°	1004.9	1004.5	1089.0	1229.0	1422.5	1747.0	2195.0	2544.0	2632.7	2603.4	1876.8
55°	743.7	748.9	836.8	978.0	1207.2	1571.5	2091.1	2506.9	2668.3	2647.7	1937.2
57°	553.2	562.4	632.9	782.4	1019.7	1397.8	1952.6	2440.6	2682.3	2671.1	1987.5
57.5°	516.4	516.8	585.4	721.2	964.8	1331.2	1913.0	2413.0	2681.9	2675.7	1995.7
60°	317.9	327.8	375.4	487.5	706.3	1038.9	1647.2	2254.1	2661.1	2670.1	2030.8
62.5°	190.3	194.5	225.3	293.9	455.2	758.3	1348.0	2050.8	2606.8	2634.2	2028.4
65°	122.4	123.4	137.4	177.9	284.6	512.6	1038.7	1782.2	2466.5	2516.9	1949.0
67.5°	94.5	96.2	101.7	116.7	165.1	319.2	734.7	1495.6	2239.3	2304.4	1756.7
70°	83.9	84.7	86.8	91.5	109.2	180.2	457.0	1168.3	1856.9	1875.4	1374.8
72.5°	68.5	70.7	76.9	78.5	86.5	112.6	254.4	784.2	1247.6	1252.3	769.1
75°	53.1	53.5	62.7	67.3	72.9	77.5	113.5	395.4	599.3	567.2	296.4
77.5°	39.6	41.5	45.6	51.4	59.5	55.5	50.9	149.0	186.0	182.7	86.1
80°	25.4	26.5	31.9	38.7	46.3	36.3	28.7	43.7	40.9	42.0	20.6
82.5°	12.8	13.0	20.4	31.5	29.4	18.2	18.0	17.9	15.2	15.0	9.6
85°	1.4	3.0	13.2	18.0	13.2	6.0	8.4	8.2	8.0	8.2	5.6
87.5°	0.2	0.2	2.2	2.6	1.8	2.0	2.4	2.6	3.2	3.0	2.4
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°	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0
2.5°	250.2	242.2	227.3	213.1	202.5	195.7	186.9	183.7	179.1	178.4	176.3
5°	261.0	245.8	219.9	199.5	183.1	170.6	159.8	150.8	143.6	142.0	142.8
7.5°	276.4	253.8	217.8	189.9	167.0	145.8	128.6	118.0	110.3	107.6	108.0
10°	293.9	264.4	217.3	179.7	144.8	118.8	99.9	90.5	86.1	84.5	82.7
12.5°	314.5	276.6	216.3	163.8	120.3	94.7	81.4	75.7	71.5	70.3	70.3
15°	337.7	289.6	211.5	144.2	97.7	78.3	69.3	64.9	63.5	62.3	62.3
17.5°	361.9	302.5	201.5	120.0	81.1	67.1	61.5	58.9	56.8	55.5	55.5
20°	389.5	315.1	185.5	98.6	68.5	59.9	55.5	52.5	50.9	49.6	49.3
22.5°	415.8	325.3	165.1	80.9	59.7	53.9	49.9	46.7	45.1	44.5	44.5
25°	443.0	331.5	140.4	66.9	54.5	48.9	44.5	41.9	40.5	40.1	39.9
27.5°	469.5	335.1	118.8	58.5	49.6	44.2	40.1	38.1	36.6	36.3	36.5
30°	501.5	335.7	97.7	52.5	45.5	39.9	36.0	34.2	33.4	33.0	32.9
32.5°	534.0	334.9	82.1	48.9	41.5	36.0	32.9	31.5	30.9	30.2	30.2
35°	570.4	330.7	69.9	45.3	37.7	32.9	30.1	28.8	28.0	27.4	27.2
37.5°	615.7	328.5	62.9	41.3	34.2	29.8	27.2	26.1	25.4	24.7	24.4
40°	687.0	338.3	60.7	37.7	30.9	27.0	24.7	23.3	22.4	21.6	21.5
42.5°	776.0	355.6	57.1	34.1	27.9	24.4	22.0	20.4	19.0	18.0	17.6
45°	891.1	378.2	51.4	30.2	25.2	21.6	19.4	17.5	15.7	14.8	14.6
47.5°	1011.9	400.0	46.4	27.2	22.4	19.3	16.8	14.6	13.0	12.4	12.2
50°	1086.0	404.4	43.3	23.8	19.7	16.6	14.3	12.2	11.2	10.6	10.6
52.5°	1119.8	397.4	38.8	20.8	17.0	14.6	12.2	10.6	10.0	9.6	9.4
55°	1143.5	386.6	33.0	18.0	14.6	12.4	10.8	9.6	8.8	8.4	8.2
57°	1157.3	371.9	28.7	15.8	12.6	10.8	9.6	8.6	7.8	7.0	7.0
57.5°	1157.9	366.4	27.4	15.7	12.0	10.4	9.4	8.4	7.4	6.6	6.4
60°	1140.0	327.8	22.0	13.2	9.6	8.8	7.8	6.6	5.2	4.4	4.2
62.5°	1082.8	279.0	18.2	11.2	7.8	6.8	5.6	5.0	3.6	2.6	2.6
65°	996.1	226.4	15.7	9.0	6.4	5.0	3.8	3.6	2.2	1.2	1.0
67.5°	870.7	176.3	13.2	7.4	5.4	3.6	2.6	2.4	1.2	0.4	0.0
70°	663.4	120.2	11.0	6.0	4.0	2.6	1.8	1.4	0.8	0.2	0.0
72.5°	382.3	66.1	9.2	4.6	3.0	2.0	1.4	0.8	0.8	0.0	0.0
75°	136.6	28.4	7.0	3.4	2.4	1.6	1.0	0.4	0.6	0.2	0.0
77.5°	43.5	15.2	4.6	2.6	2.0	1.2	0.8	0.4	0.4	0.2	0.0
80°	12.8	8.0	2.8	2.2	1.4	1.0	0.6	0.2	0.4	0.2	0.0
82.5°	7.0	4.0	2.2	1.6	1.4	0.8	0.6	0.2	0.2	0.2	0.0
85°	3.6	2.4	1.8	1.6	1.4	0.8	0.6	0.2	0.0	0.2	0.2
87.5°	2.0	1.8	1.8	1.6	1.4	1.0	0.6	0.2	0.0	0.0	0.0
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)