

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: P450594

Luminaire Tested: **GALN-SA1B-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

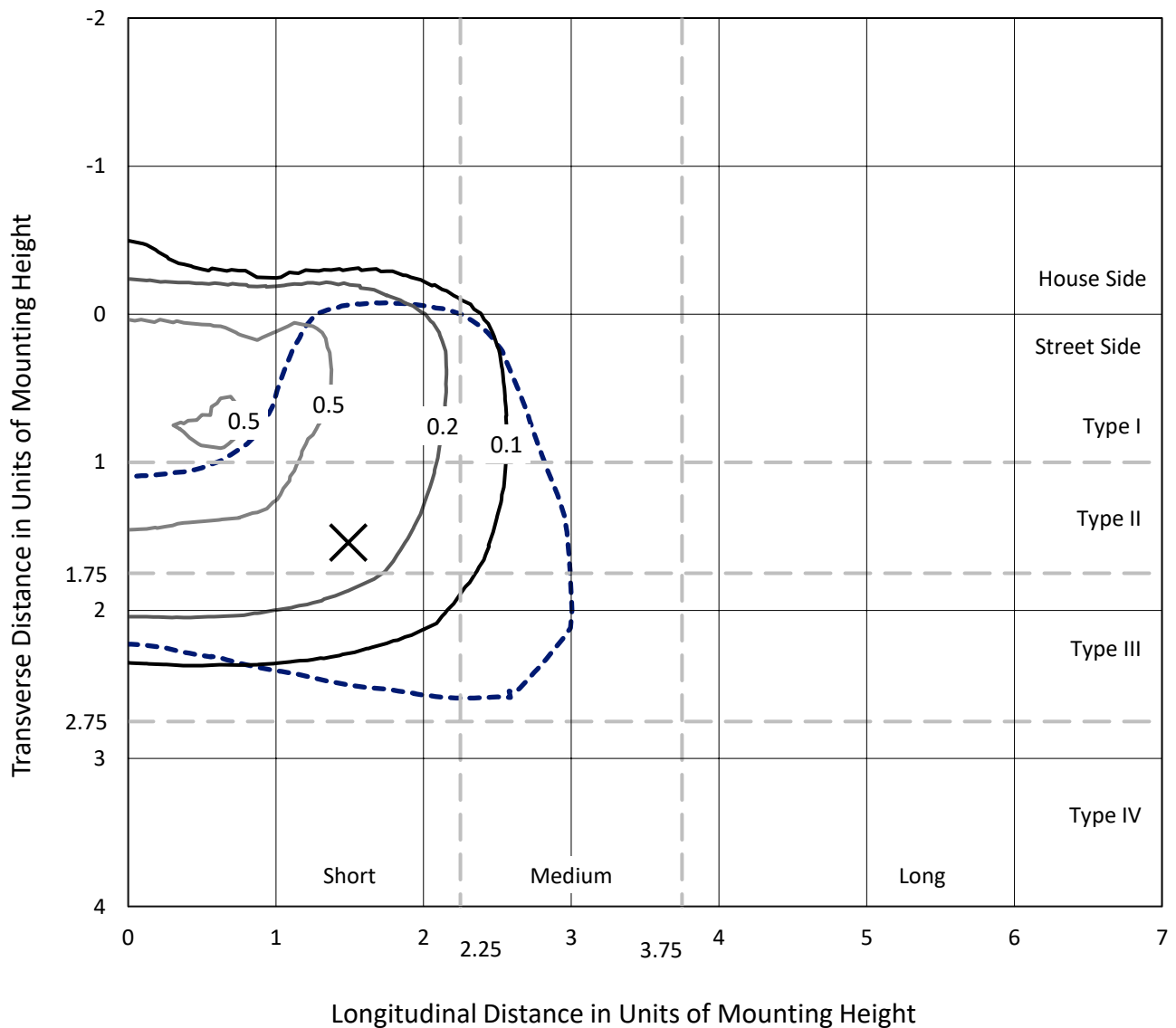
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

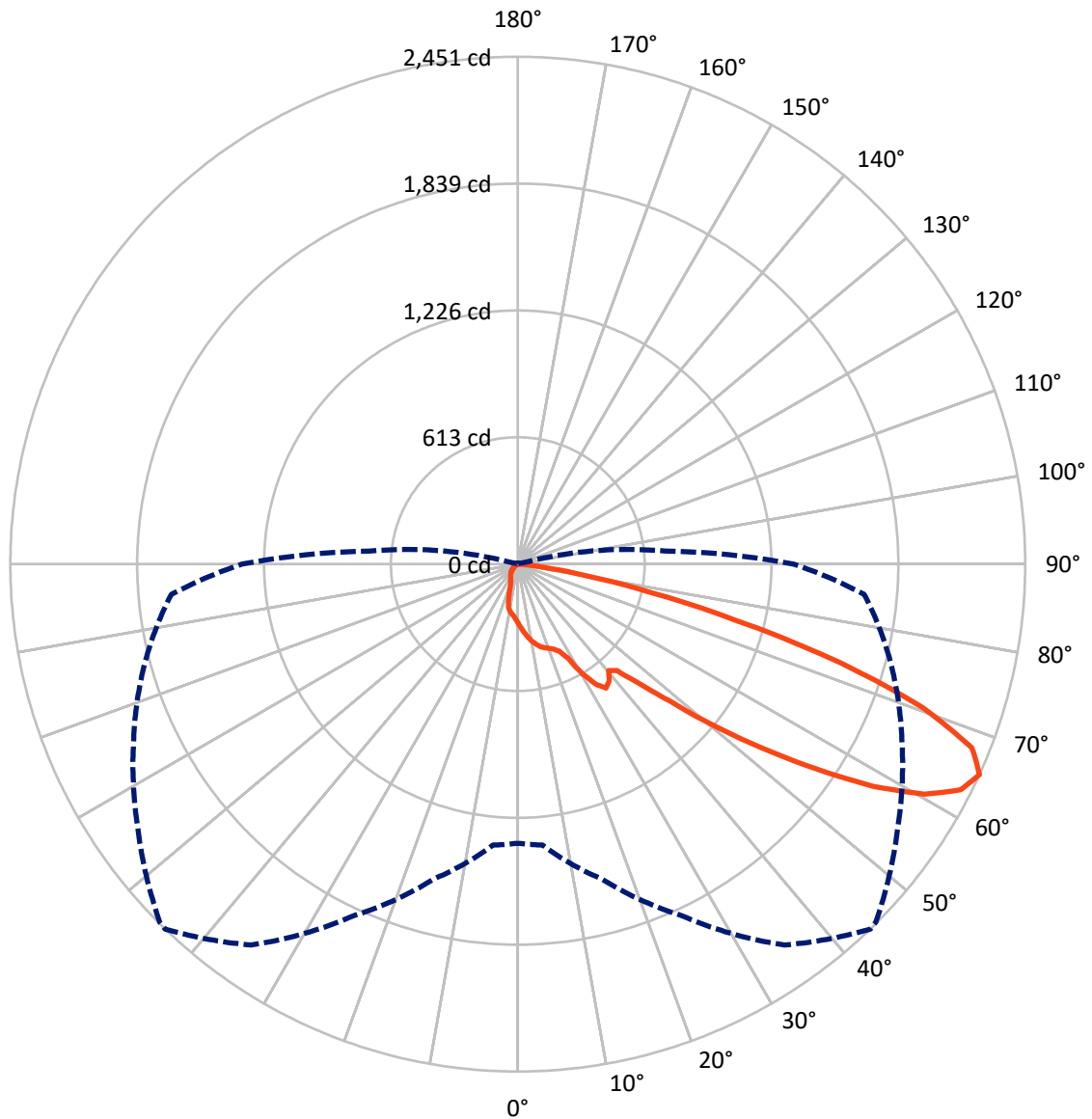
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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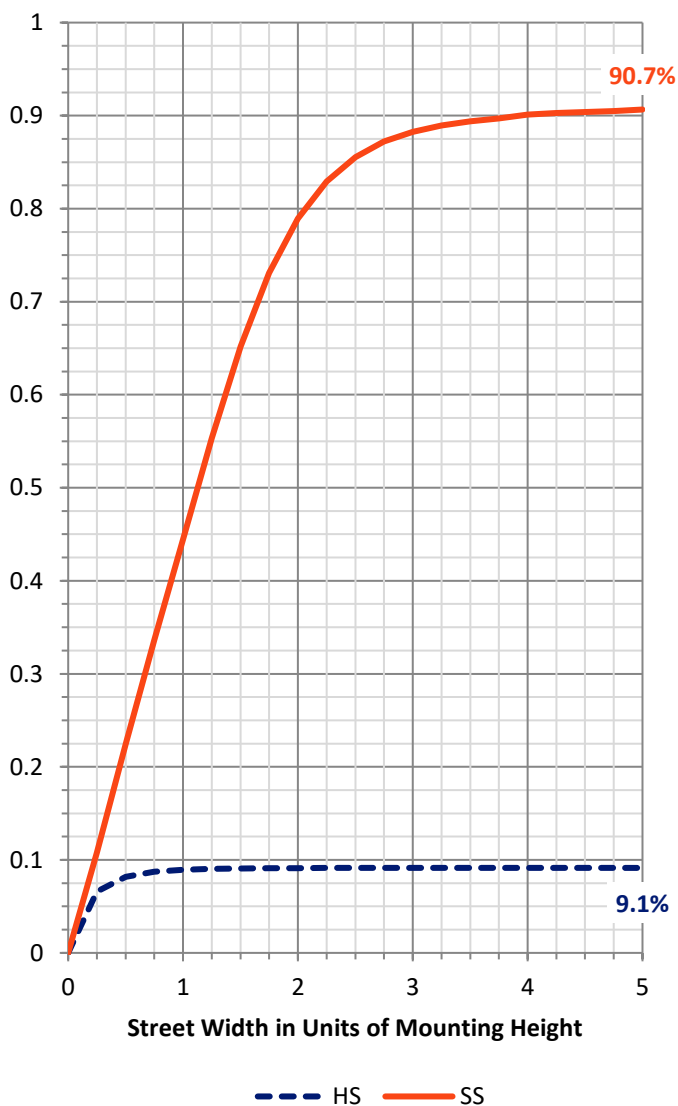
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.1	0.0	282.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2779.9	0.0	2779.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	3062.0	0.0	3062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	0.9
10°-20°	85.3	2.8
20°-30°	144.7	4.7
30°-40°	240.5	7.9
40°-50°	419.9	13.7
50°-60°	820.4	26.8
60°-70°	951.8	31.1
70°-80°	346.6	11.3
80°-90°	24.4	0.8
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°	3062.0	100.0
0°-180°	3062.0	100.0

Coefficient of Utilization



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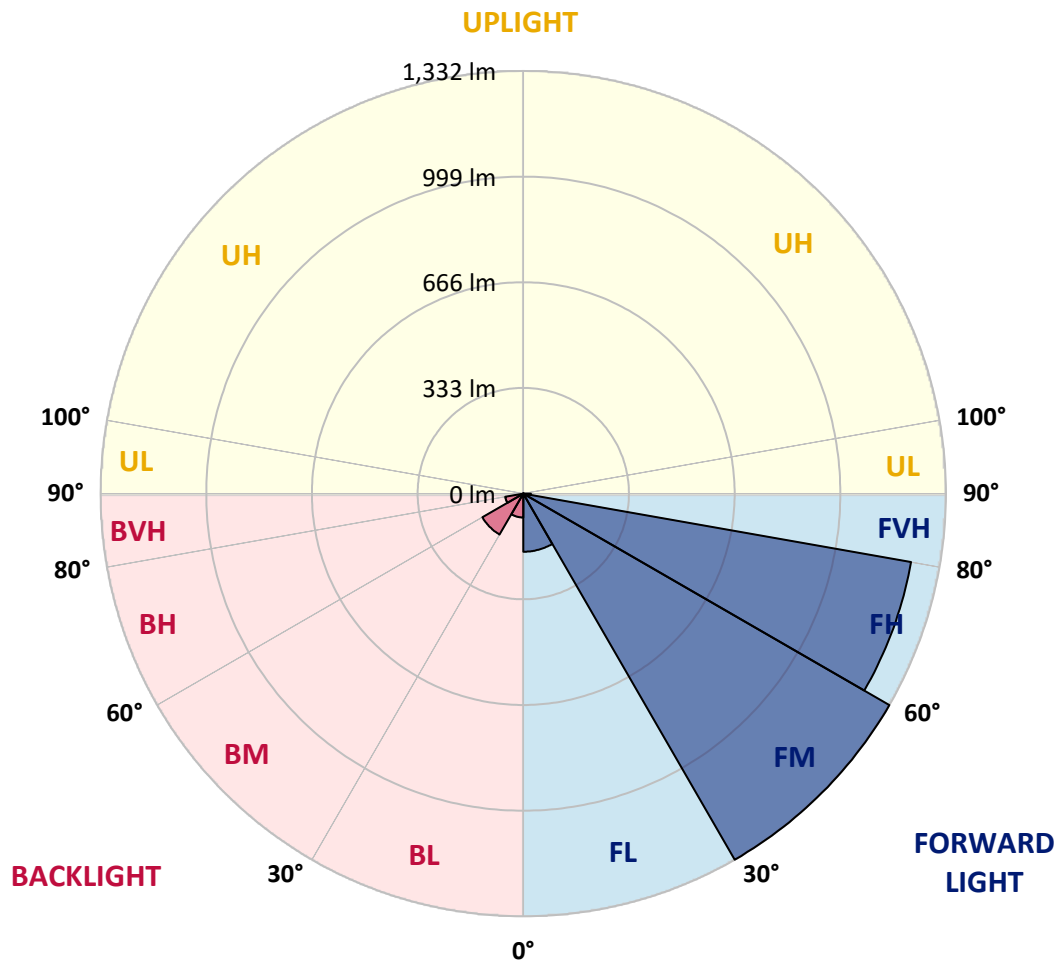
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.1	6.0			
FM (30°-60°)	1332.0	43.5			
FH (60°-80°)	1240.7	40.5			G1/1800
FVH (80°-90°)	24.1	0.8			G1/100
BL (0°-30°)	75.2	2.5	B0/110		
BM (30°-60°)	148.8	4.9	B0/220		
BH (60°-80°)	57.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0
2.5°	320.8	319.4	318.7	314.9	312.1	308.6	308.6	304.2	299.0	293.4	288.3
5°	356.6	354.2	351.2	347.9	341.4	332.0	332.0	322.7	311.9	302.3	291.8
7.5°	391.0	388.9	383.7	377.4	366.6	356.8	356.1	342.5	329.7	315.2	300.2
10°	421.2	419.5	415.1	402.9	391.7	378.8	378.6	363.4	348.4	330.6	312.1
12.5°	442.2	442.4	436.6	424.9	410.4	398.2	397.3	382.3	366.6	347.5	324.8
15°	457.2	457.2	451.1	438.0	424.9	414.1	413.2	400.1	384.0	363.1	338.6
17.5°	461.4	462.8	456.3	444.6	434.0	424.7	424.4	413.4	400.6	380.4	352.6
20°	459.8	461.2	456.0	446.9	439.6	434.3	433.6	429.1	417.2	398.2	367.6
22.5°	456.3	457.7	453.9	448.5	445.0	446.7	445.5	449.2	442.9	420.0	385.4
25°	457.0	458.4	455.5	452.5	455.5	465.6	468.7	484.8	479.2	447.6	404.5
27.5°	478.9	481.8	477.8	479.2	489.9	513.3	519.2	547.0	522.2	482.7	434.5
30°	527.8	526.0	518.5	525.3	562.7	612.3	610.7	606.2	567.4	523.2	470.1
32.5°	572.3	570.7	570.2	599.4	667.3	691.4	690.2	647.2	607.9	569.5	505.2
35°	590.3	584.0	582.6	653.5	767.0	735.1	727.9	664.0	657.0	620.0	540.9
37.5°	644.6	640.2	618.4	662.4	727.2	716.7	711.0	693.0	709.4	664.7	581.4
40°	756.4	744.0	724.4	681.3	670.8	675.3	680.9	730.2	771.4	725.8	635.5
42.5°	895.4	892.6	856.1	775.9	697.0	703.1	710.3	807.9	860.6	817.7	723.7
45°	1062.2	1066.2	1013.6	918.8	815.4	820.5	831.1	922.6	981.3	960.7	862.4
47.5°	1213.9	1210.8	1193.0	1094.5	999.1	987.6	1004.7	1069.7	1148.3	1151.6	1034.6
50°	1366.4	1382.6	1356.1	1317.5	1246.6	1222.5	1216.2	1248.0	1367.8	1352.1	1241.5
52.5°	1585.6	1594.1	1544.5	1534.6	1550.8	1472.6	1466.3	1474.0	1581.2	1527.4	1396.4
55°	1723.5	1718.5	1700.1	1776.8	1840.7	1743.1	1735.2	1704.0	1758.3	1651.2	1545.4
57.5°	1767.0	1774.0	1817.0	1955.8	2106.9	2024.1	2009.6	1921.2	1886.1	1766.5	1682.5
60°	1747.6	1760.4	1853.3	2059.7	2269.3	2256.9	2244.5	2095.9	1977.8	1862.9	1778.7
62.5°	1609.3	1627.3	1775.9	2041.2	2324.3	2401.7	2386.3	2205.0	2038.9	1909.7	1795.5
65°	1348.6	1362.0	1575.3	1873.4	2246.2	2451.4	2445.7	2239.1	2048.4	1866.9	1680.2
67.5°	961.4	1006.8	1204.5	1578.9	2015.0	2366.7	2376.2	2198.2	1958.4	1681.8	1391.4
70°	604.4	635.2	777.0	1130.3	1615.4	2076.3	2107.9	2010.8	1699.6	1311.0	931.5
72.5°	288.3	311.2	412.3	715.5	1140.2	1633.6	1658.6	1650.7	1314.2	825.9	480.6
75°	128.5	137.1	196.8	365.2	736.1	1098.0	1162.9	1173.6	821.3	404.1	186.9
77.5°	65.5	65.7	92.2	176.9	367.6	655.1	668.0	705.7	445.3	178.1	65.0
80°	34.9	37.2	48.9	83.5	190.7	322.7	321.0	352.8	197.5	87.3	21.8
82.5°	15.7	17.3	27.6	43.8	93.1	122.4	132.0	144.4	84.7	55.7	9.6
85°	4.7	5.6	13.6	22.0	33.7	35.3	39.5	51.0	48.0	39.5	4.9
87.5°	0.7	0.7	5.6	6.1	4.9	6.3	6.6	7.3	15.4	14.5	2.6
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°	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0
2.5°	285.4	283.8	278.0	273.0	268.8	266.3	263.2	261.3	260.4	259.7	259.9
5°	286.6	282.6	272.6	264.6	258.5	252.0	247.5	245.0	243.8	241.9	241.9
7.5°	293.2	286.9	272.8	260.6	250.1	241.2	232.8	229.8	227.7	227.2	226.7
10°	302.5	294.6	275.4	258.5	243.6	231.4	219.5	208.9	200.8	195.8	195.1
12.5°	314.2	302.8	279.4	257.1	238.0	216.4	184.8	163.5	149.3	144.8	145.5
15°	325.0	312.6	283.3	256.0	227.7	179.5	143.7	119.3	112.1	111.4	111.6
17.5°	337.9	323.1	288.0	254.3	199.3	137.1	106.7	100.1	101.5	103.9	103.7
20°	351.2	334.3	293.6	244.5	159.1	103.2	94.3	95.0	97.1	99.2	99.7
22.5°	365.5	347.2	300.2	220.9	121.4	89.8	89.4	90.3	92.4	94.8	95.2
25°	385.1	363.4	305.1	190.0	92.0	83.1	84.0	85.6	87.5	90.1	90.5
27.5°	410.4	385.1	307.7	149.7	79.6	77.0	77.2	79.6	81.9	84.2	84.2
30°	443.1	411.1	302.5	113.2	73.5	71.1	70.2	71.6	74.6	77.0	77.2
32.5°	472.4	435.7	289.0	86.6	69.0	65.7	63.4	63.6	64.8	66.2	66.4
35°	501.6	459.5	265.8	72.8	64.3	60.6	57.1	55.2	54.3	53.6	54.3
37.5°	539.1	489.2	234.9	66.2	60.4	55.7	50.8	46.8	43.5	41.4	41.9
40°	587.3	530.4	198.4	62.0	56.6	51.0	44.5	39.3	33.7	31.8	30.9
42.5°	666.8	592.9	160.0	58.5	52.9	46.1	37.9	30.9	25.7	23.9	24.3
45°	792.5	671.7	123.3	54.8	49.1	40.7	31.8	24.3	20.1	19.2	19.7
47.5°	959.1	773.8	95.0	50.5	44.5	34.9	25.0	19.2	16.6	16.4	16.1
50°	1115.8	868.7	79.3	45.9	38.8	29.0	20.6	16.1	14.5	14.3	14.3
52.5°	1257.6	936.8	64.6	40.5	32.8	23.9	17.3	14.3	12.9	12.2	12.2
55°	1383.7	981.3	52.4	33.9	25.7	19.0	15.0	12.9	11.2	10.3	10.1
57.5°	1479.0	986.7	39.3	27.1	19.2	14.7	12.9	11.2	9.4	8.2	7.7
60°	1519.7	940.1	29.0	20.6	14.3	11.7	10.3	9.1	7.0	5.8	5.6
62.5°	1478.7	849.6	21.5	15.7	11.0	8.7	7.3	6.8	4.9	3.5	3.3
65°	1332.0	718.8	17.1	11.9	8.2	6.3	4.7	4.4	3.0	1.6	1.4
67.5°	1067.2	562.9	13.6	8.9	5.8	4.2	3.0	2.8	1.6	0.5	0.5
70°	694.0	359.9	11.0	6.6	3.7	2.8	1.9	1.4	0.9	0.2	0.0
72.5°	343.2	168.2	8.9	5.1	2.6	1.4	0.7	0.5	0.7	0.0	0.0
75°	133.1	59.9	6.6	3.5	1.4	0.7	0.5	0.0	0.2	0.0	0.0
77.5°	44.2	19.9	4.0	1.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.4	7.7	2.1	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	3.0	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.9	0.9	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.9	0.7	0.5	0.2	0.0	0.0	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)