

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: P450217

Luminaire Tested: **GALN-SA1A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450217
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-SA1A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 2799 lumens
Efficiency: N/A
Efficacy: 84.8 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

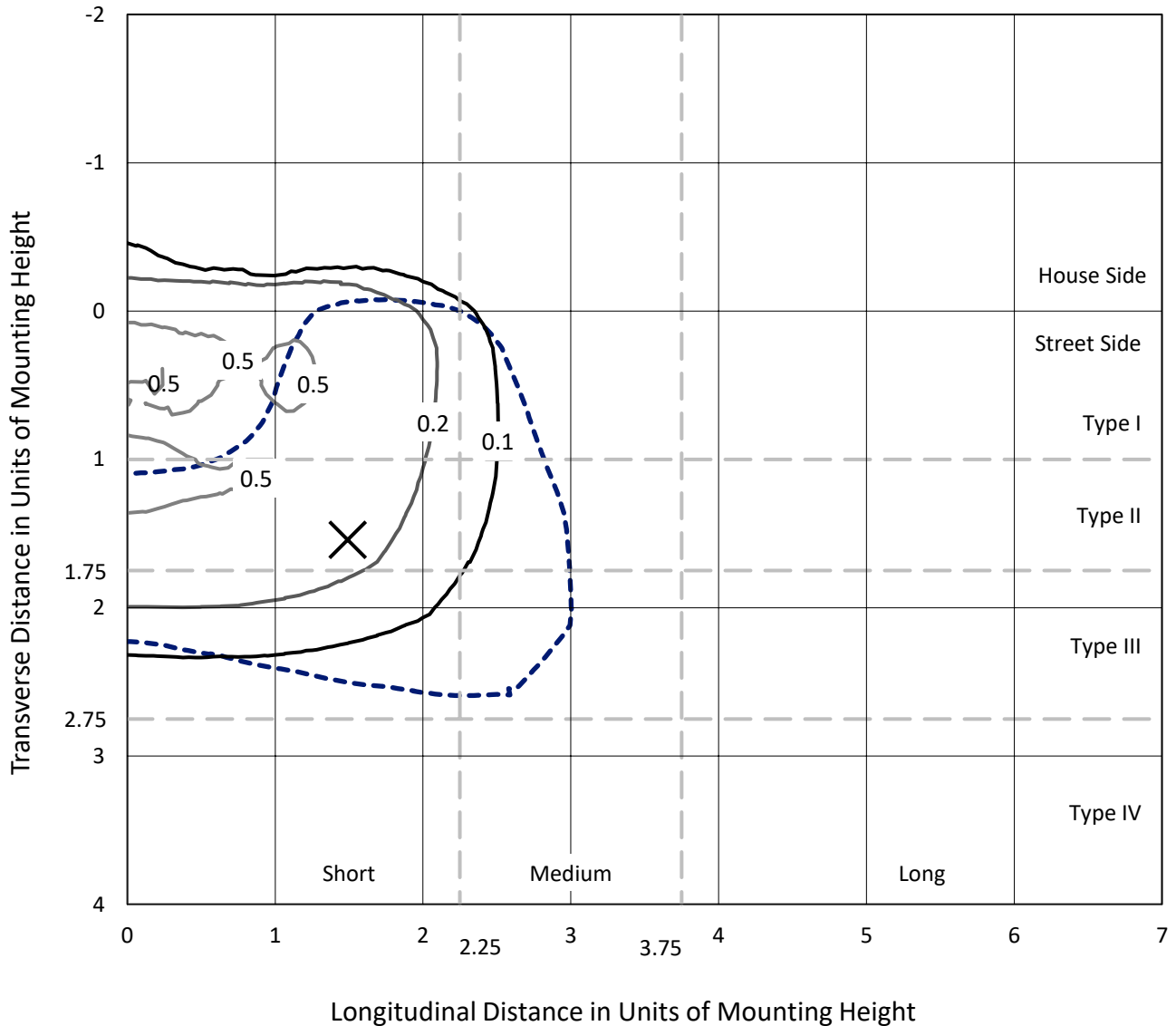
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450217
 CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

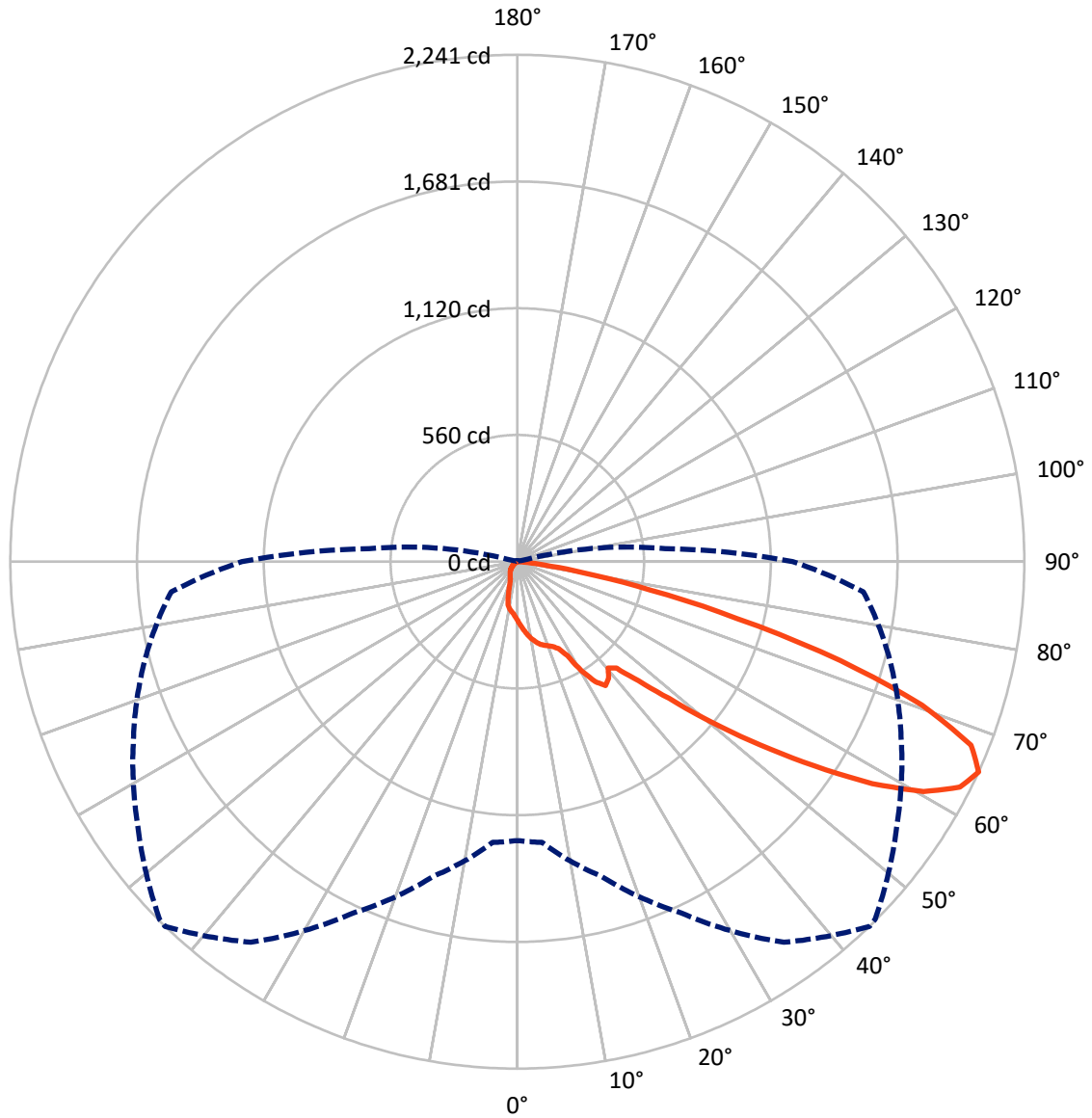
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

REPORT NUMBER: P450217
CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P450217
 CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

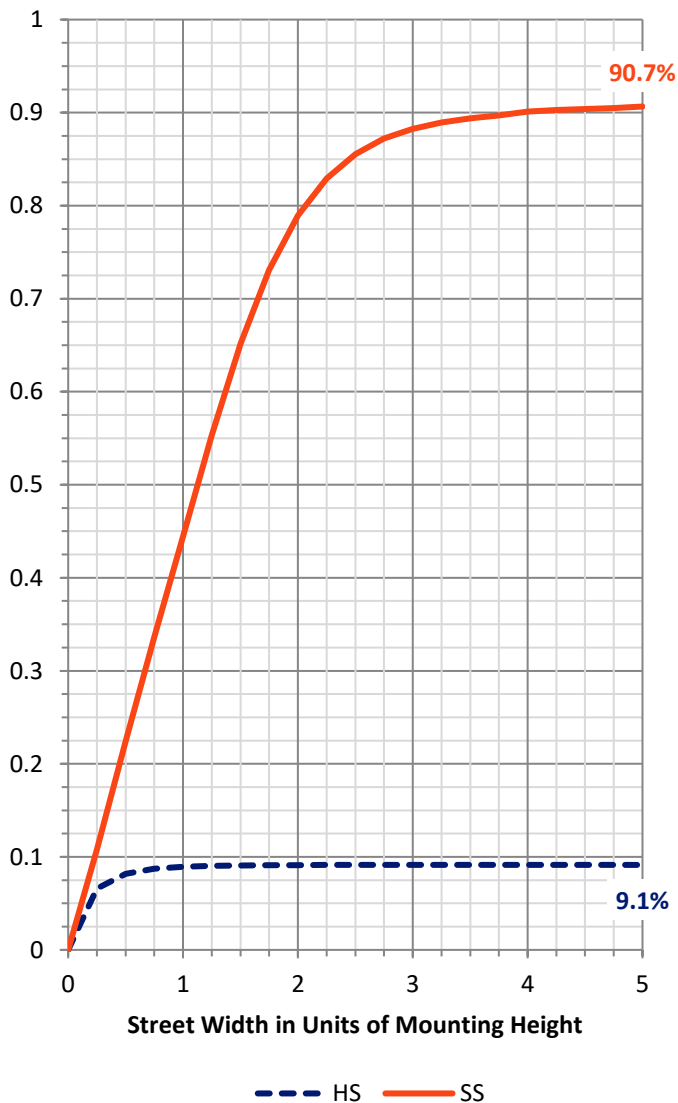
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.9	0.0	257.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2541.1	0.0	2541.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	2799.0	0.0	2799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	0.9
10°-20°	78.0	2.8
20°-30°	132.2	4.7
30°-40°	219.9	7.9
40°-50°	383.9	13.7
50°-60°	749.9	26.8
60°-70°	870.1	31.1
70°-80°	316.8	11.3
80°-90°	22.3	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°	2799.0	100.0
0°-180°	2799.0	100.0

Coefficient of Utilization

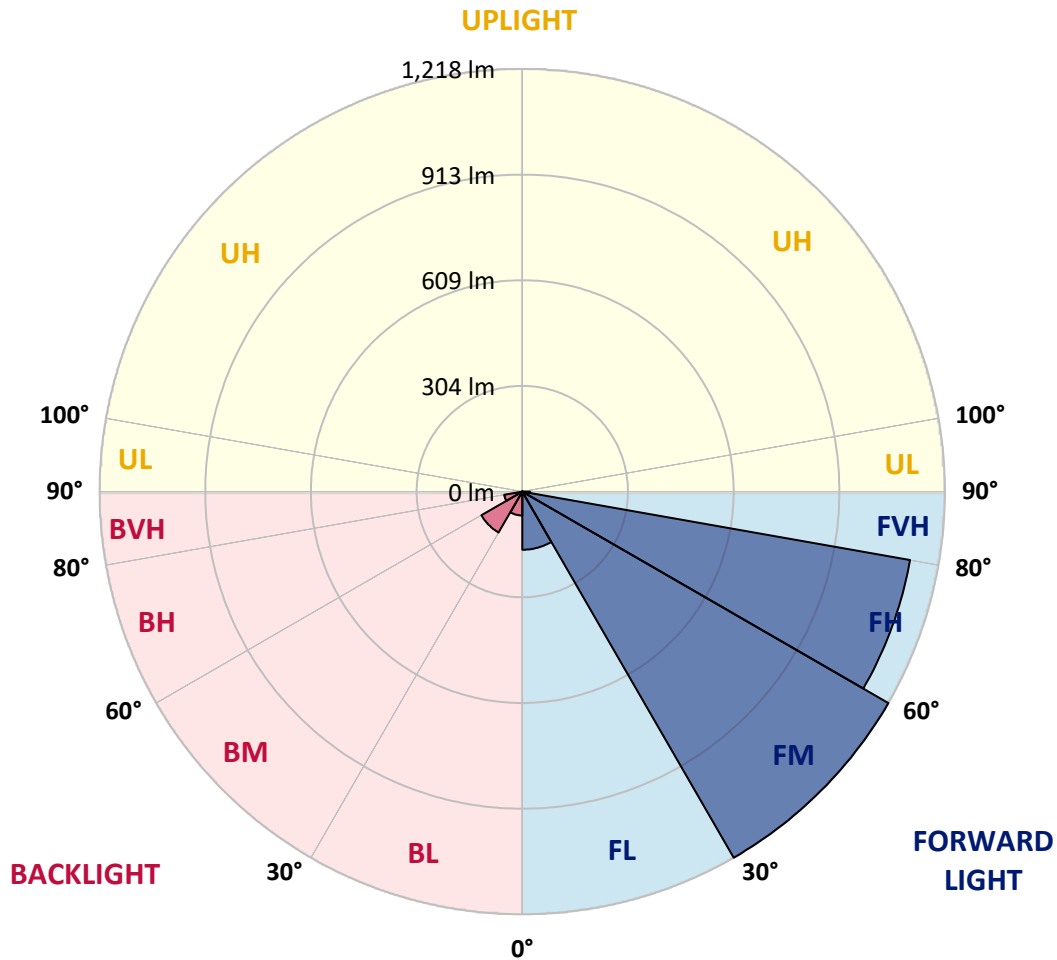


REPORT NUMBER: P450217
 CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.4	6.0			
FM (30°-60°)	1217.6	43.5			
FH (60°-80°)	1134.1	40.5			G1/1800
FVH (80°-90°)	22.0	0.8			G1/100
BL (0°-30°)	68.7	2.5	B0/110		
BM (30°-60°)	136.1	4.9	B0/220		
BH (60°-80°)	52.8	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





REPORT NUMBER: P450217

CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
2.5°	293.2	291.9	291.3	287.9	285.3	282.1	282.1	278.0	273.3	268.2	263.5
5°	326.0	323.8	321.0	318.0	312.0	303.5	303.5	294.9	285.1	276.3	266.7
7.5°	357.4	355.5	350.8	345.0	335.1	326.2	325.5	313.1	301.4	288.1	274.4
10°	385.0	383.5	379.4	368.3	358.0	346.3	346.1	332.2	318.5	302.2	285.3
12.5°	404.2	404.4	399.1	388.4	375.1	364.0	363.2	349.5	335.1	317.6	296.9
15°	417.9	417.9	412.4	400.4	388.4	378.6	377.7	365.7	351.0	331.9	309.5
17.5°	421.8	423.1	417.1	406.4	396.7	388.2	388.0	377.9	366.2	347.8	322.3
20°	420.3	421.6	416.8	408.5	401.9	397.0	396.3	392.3	381.3	364.0	336.0
22.5°	417.1	418.3	414.9	410.0	406.8	408.3	407.2	410.6	404.9	383.9	352.3
25°	417.7	419.0	416.4	413.6	416.4	425.6	428.4	443.2	438.0	409.1	369.8
27.5°	437.8	440.4	436.7	438.0	447.9	469.2	474.6	500.0	477.4	441.2	397.2
30°	482.5	480.8	474.0	480.2	514.4	559.7	558.2	554.2	518.7	478.2	429.7
32.5°	523.1	521.6	521.2	548.0	610.0	632.0	630.9	591.6	555.7	520.6	461.8
35°	539.6	533.8	532.6	597.4	701.1	672.0	665.4	607.0	600.6	566.8	494.5
37.5°	589.2	585.2	565.3	605.5	664.7	655.1	650.0	633.5	648.5	607.6	531.5
40°	691.5	680.1	662.2	622.8	613.2	617.3	622.4	667.5	705.2	663.4	580.9
42.5°	818.5	815.9	782.6	709.2	637.1	642.7	649.3	738.5	786.6	747.5	661.5
45°	971.0	974.6	926.5	839.9	745.4	750.1	759.7	843.3	897.0	878.2	788.4
47.5°	1109.6	1106.8	1090.6	1000.5	913.3	902.8	918.4	977.9	1049.7	1052.7	945.8
50°	1249.0	1263.8	1239.6	1204.3	1139.5	1117.5	1111.7	1140.8	1250.3	1236.0	1134.8
52.5°	1449.5	1457.2	1411.8	1402.8	1417.6	1346.1	1340.4	1347.4	1445.4	1396.2	1276.4
55°	1575.4	1570.9	1554.0	1624.2	1682.6	1593.4	1586.1	1557.7	1607.3	1509.3	1412.7
57.5°	1615.2	1621.6	1661.0	1787.8	1926.0	1850.3	1837.0	1756.2	1724.1	1614.8	1538.0
60°	1597.5	1609.2	1694.1	1882.8	2074.4	2063.1	2051.7	1915.9	1807.9	1702.9	1625.9
62.5°	1471.1	1487.5	1623.3	1865.9	2124.7	2195.5	2181.3	2015.6	1863.7	1745.7	1641.3
65°	1232.8	1245.0	1440.0	1712.5	2053.2	2240.8	2235.7	2046.8	1872.5	1706.5	1535.9
67.5°	878.8	920.3	1101.0	1443.2	1841.9	2163.4	2172.1	2009.4	1790.2	1537.4	1271.9
70°	552.4	580.7	710.3	1033.2	1476.6	1898.0	1926.8	1838.1	1553.6	1198.4	851.4
72.5°	263.5	284.5	376.9	654.0	1042.2	1493.3	1516.2	1508.9	1201.4	755.0	439.3
75°	117.4	125.3	179.9	333.9	672.9	1003.7	1063.0	1072.8	750.7	369.4	170.9
77.5°	59.9	60.1	84.3	161.7	336.0	598.9	610.6	645.1	407.0	162.8	59.5
80°	31.9	34.0	44.7	76.4	174.3	294.9	293.4	322.5	180.5	79.8	19.9
82.5°	14.3	15.8	25.2	40.0	85.1	111.9	120.6	132.0	77.4	50.9	8.8
85°	4.3	5.1	12.4	20.1	30.8	32.3	36.1	46.6	43.8	36.1	4.5
87.5°	0.6	0.6	5.1	5.6	4.5	5.8	6.0	6.6	14.1	13.3	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



REPORT NUMBER: P450217

CATALOG NUMBER: GALN-SA1A-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
2.5°	260.9	259.4	254.1	249.6	245.7	243.4	240.6	238.9	238.0	237.4	237.6
5°	262.0	258.4	249.2	241.9	236.3	230.3	226.3	223.9	222.9	221.1	221.1
7.5°	268.0	262.2	249.4	238.3	228.6	220.5	212.8	210.0	208.1	207.7	207.2
10°	276.5	269.3	251.7	236.3	222.6	211.5	200.6	191.0	183.5	179.0	178.4
12.5°	287.2	276.8	255.4	235.1	217.5	197.8	169.0	149.5	136.5	132.4	133.0
15°	297.1	285.7	259.0	234.0	208.1	164.0	131.3	109.1	102.4	101.8	102.0
17.5°	308.8	295.4	263.3	232.5	182.2	125.3	97.5	91.5	92.8	95.0	94.7
20°	321.0	305.6	268.4	223.5	145.4	94.3	86.2	86.8	88.8	90.7	91.1
22.5°	334.1	317.4	274.4	201.9	111.0	82.1	81.7	82.6	84.5	86.6	87.0
25°	352.0	332.2	278.9	173.7	84.1	75.9	76.8	78.3	80.0	82.3	82.8
27.5°	375.1	352.0	281.2	136.9	72.7	70.4	70.6	72.7	74.9	77.0	77.0
30°	405.1	375.8	276.5	103.5	67.2	65.0	64.2	65.4	68.2	70.4	70.6
32.5°	431.8	398.2	264.1	79.1	63.1	60.1	58.0	58.2	59.2	60.5	60.7
35°	458.6	420.1	243.0	66.5	58.8	55.4	52.2	50.5	49.6	49.0	49.6
37.5°	492.8	447.2	214.7	60.5	55.2	50.9	46.4	42.8	39.8	37.9	38.3
40°	536.8	484.9	181.4	56.7	51.8	46.6	40.6	35.9	30.8	29.1	28.2
42.5°	609.6	542.0	146.3	53.5	48.3	42.1	34.6	28.2	23.5	21.8	22.2
45°	724.4	614.0	112.7	50.0	44.9	37.2	29.1	22.2	18.4	17.5	18.0
47.5°	876.7	707.3	86.8	46.2	40.6	31.9	22.9	17.5	15.2	15.0	14.8
50°	1020.0	794.1	72.5	41.9	35.5	26.5	18.8	14.8	13.3	13.0	13.0
52.5°	1149.6	856.4	59.0	37.0	29.9	21.8	15.8	13.0	11.8	11.1	11.1
55°	1264.9	897.0	47.9	31.0	23.5	17.3	13.7	11.8	10.3	9.4	9.2
57.5°	1351.9	901.9	35.9	24.8	17.5	13.5	11.8	10.3	8.6	7.5	7.1
60°	1389.1	859.4	26.5	18.8	13.0	10.7	9.4	8.3	6.4	5.3	5.1
62.5°	1351.7	776.6	19.7	14.3	10.1	7.9	6.6	6.2	4.5	3.2	3.0
65°	1217.6	657.0	15.6	10.9	7.5	5.8	4.3	4.1	2.8	1.5	1.3
67.5°	975.5	514.6	12.4	8.1	5.3	3.8	2.8	2.6	1.5	0.4	0.4
70°	634.4	328.9	10.1	6.0	3.4	2.6	1.7	1.3	0.9	0.2	0.0
72.5°	313.8	153.8	8.1	4.7	2.4	1.3	0.6	0.4	0.6	0.0	0.0
75°	121.7	54.8	6.0	3.2	1.3	0.6	0.4	0.0	0.2	0.0	0.0
77.5°	40.4	18.2	3.6	1.7	0.9	0.4	0.0	0.0	0.0	0.0	0.0
80°	15.0	7.1	1.9	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	2.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.7	0.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.3	0.9	0.6	0.4	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)