

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: P450345

Luminaire Tested: **GALN-SA1A-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2798 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 IV - Short  
BUG Rating: B0 - U0 - G1

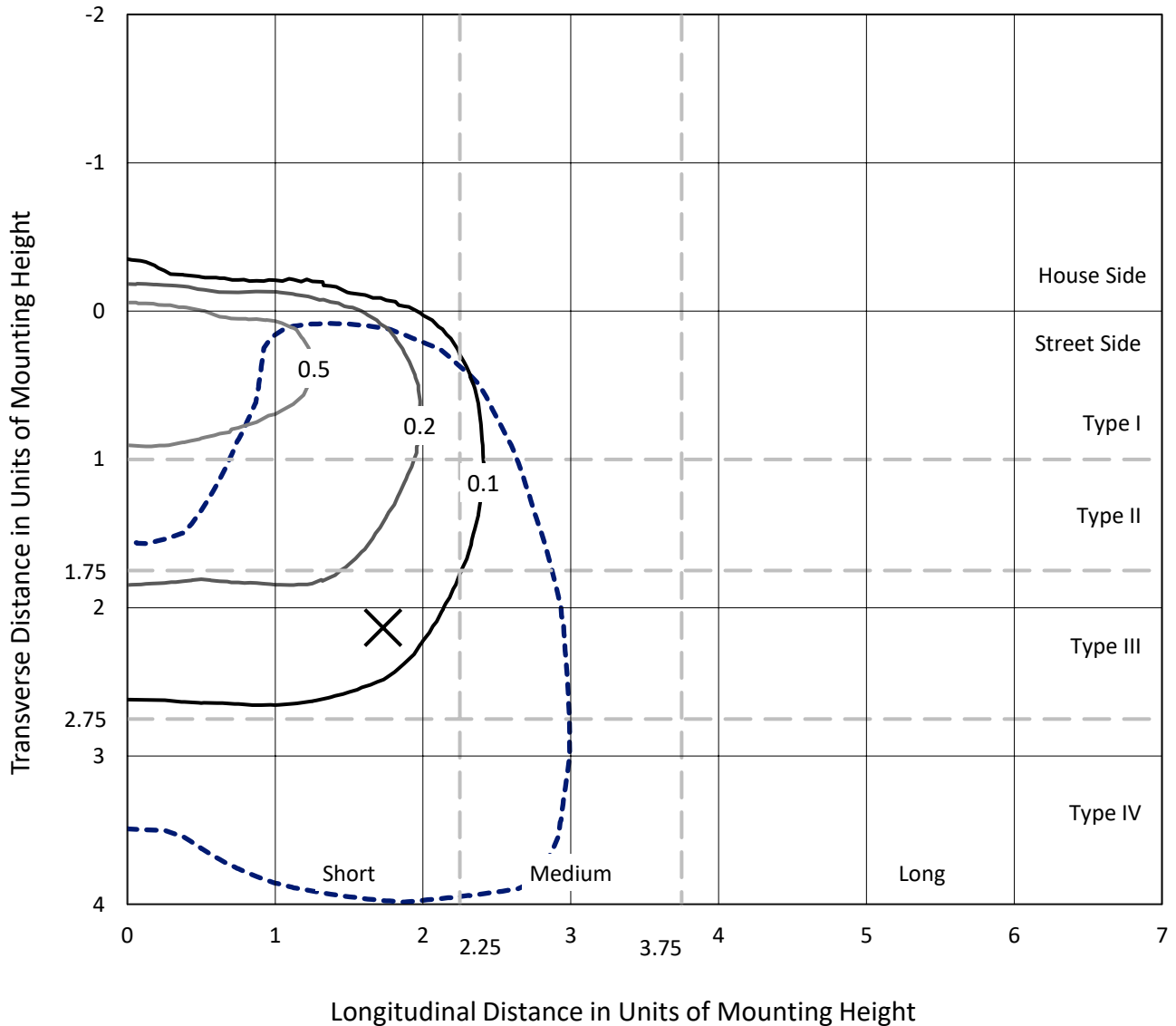
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

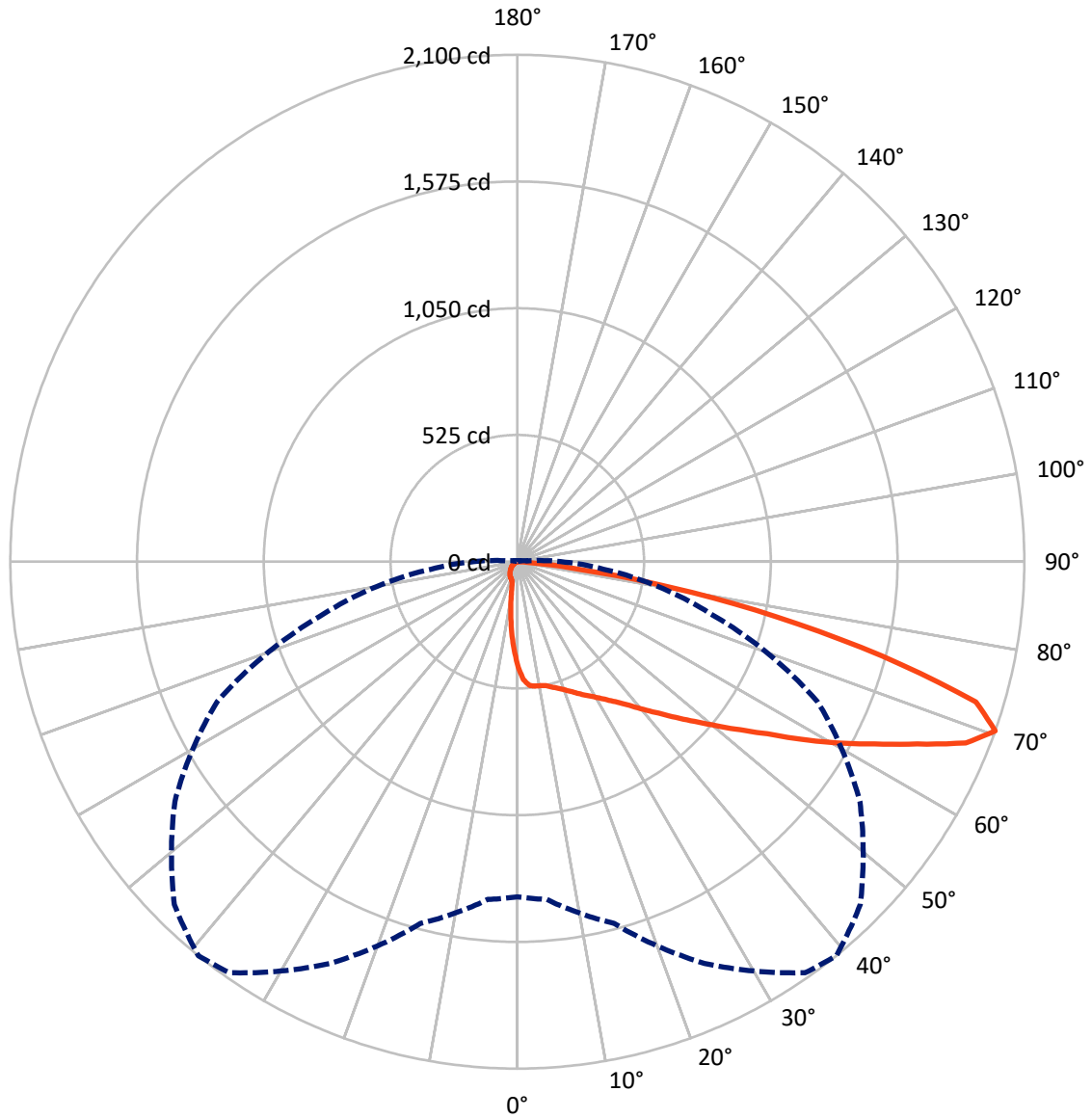
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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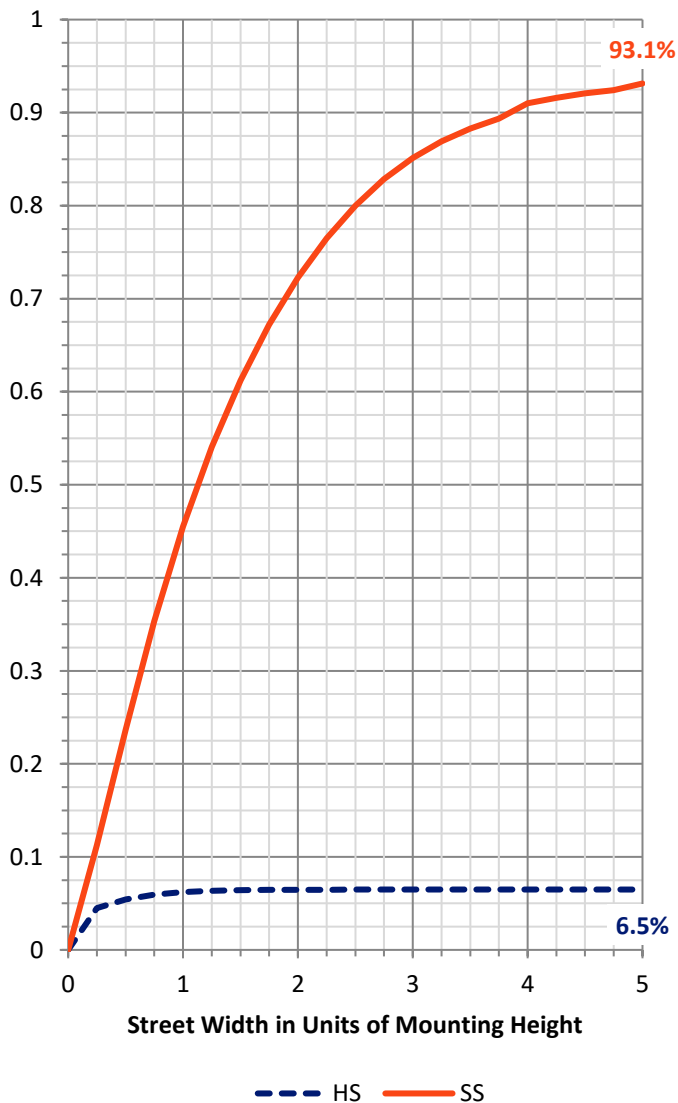
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	182.5	0.0	182.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	2615.6	0.0	2615.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	2798.0	0.0	2798.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	1.3
10°-20°	96.8	3.5
20°-30°	162.1	5.8
30°-40°	251.4	9.0
40°-50°	398.4	14.2
50°-60°	584.0	20.9
60°-70°	748.6	26.8
70°-80°	470.4	16.8
80°-90°	49.0	1.8
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°	2798.0	100.0
0°-180°	2798.0	100.0

**Coefficient of Utilization**



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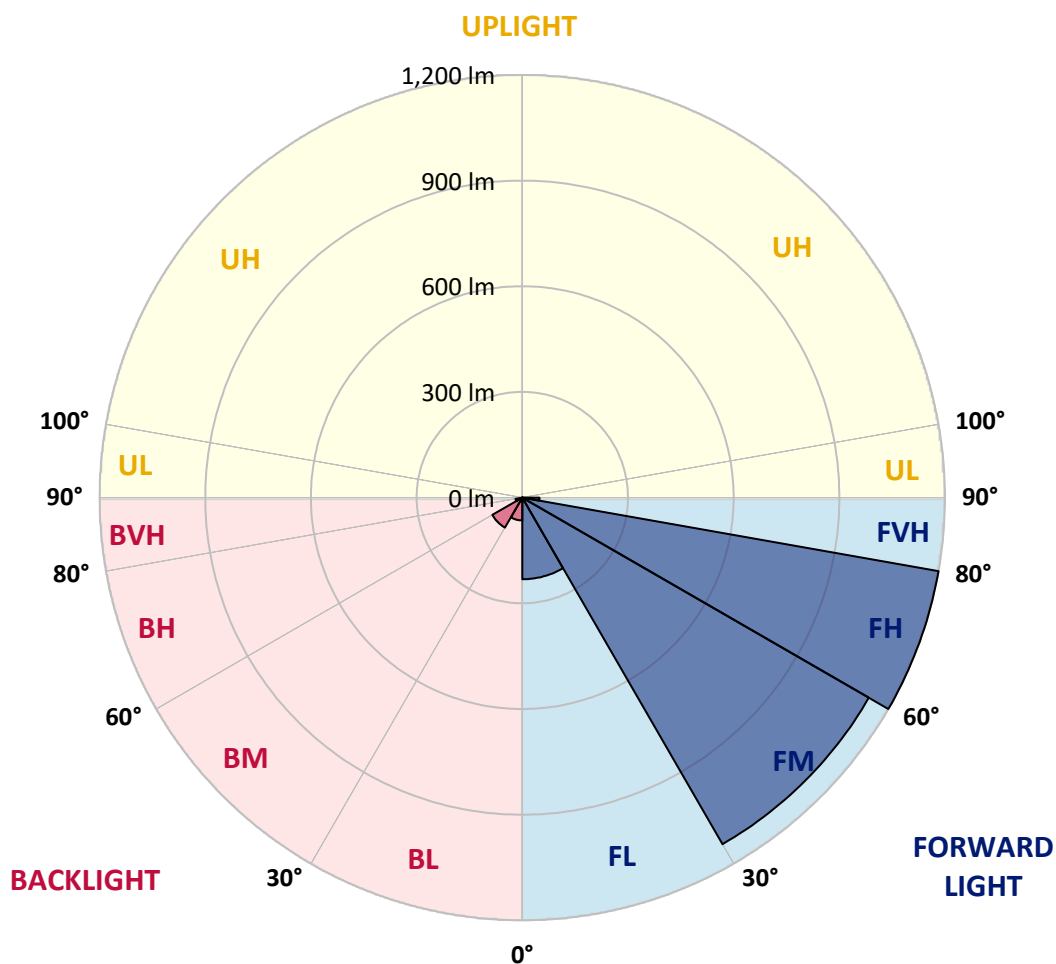
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.5	8.3			
FM (30°-60°)	1135.7	40.6			
FH (60°-80°)	1199.7	42.9			G1/1800
FVH (80°-90°)	48.6	1.7			G1/100
BL (0°-30°)	64.6	2.3	B0/110		
BM (30°-60°)	98.2	3.5	B0/220		
BH (60°-80°)	19.3	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6
2.5°	504.5	502.8	500.5	497.9	490.4	489.0	484.5	474.9	463.5	454.1	441.1
5°	528.3	529.3	527.6	522.9	517.4	514.2	508.6	493.7	478.9	459.9	438.7
7.5°	533.8	535.7	533.6	529.1	523.8	520.4	515.9	503.1	485.8	464.2	435.1
10°	533.2	535.5	534.2	530.0	525.7	522.5	517.6	507.5	493.6	470.8	436.2
12.5°	532.3	535.3	535.1	533.0	529.5	527.0	524.0	515.0	502.0	480.4	442.4
15°	529.7	533.4	536.8	538.5	538.7	538.7	534.9	525.3	512.9	493.0	450.5
17.5°	530.8	535.1	543.6	548.5	551.8	551.5	547.5	537.2	523.4	506.0	459.0
20°	537.7	543.6	555.4	565.2	568.6	567.4	562.2	550.1	534.5	517.1	467.2
22.5°	554.8	560.1	575.0	586.4	588.9	585.9	578.4	562.0	547.9	529.1	477.2
25°	580.4	586.6	600.3	609.0	609.0	607.3	596.8	577.6	562.9	545.8	490.2
27.5°	611.4	616.7	630.2	638.0	633.4	628.6	618.0	594.9	580.8	566.9	505.8
30°	642.8	646.2	660.5	663.9	659.2	653.0	641.7	618.6	606.2	595.5	528.3
32.5°	672.5	679.9	691.7	691.0	684.6	681.6	671.2	646.6	639.6	638.5	559.9
35°	702.3	707.9	718.4	721.1	715.4	714.9	707.3	689.1	689.3	696.6	609.2
37.5°	727.8	732.9	745.3	751.1	752.3	755.1	752.1	740.0	757.2	777.3	674.4
40°	749.3	756.4	772.2	782.4	794.0	804.4	804.9	807.5	842.0	876.6	759.6
42.5°	766.0	776.0	798.9	817.7	844.4	857.6	868.1	882.6	940.5	992.2	860.0
45°	787.8	799.3	827.9	857.4	899.1	920.7	935.4	974.1	1056.3	1126.8	963.0
47.5°	823.9	829.9	859.1	902.1	957.0	987.9	1016.4	1075.1	1180.6	1243.8	1048.8
50°	870.3	874.3	896.3	956.1	1027.2	1067.8	1119.9	1188.9	1309.6	1340.8	1097.3
52.5°	921.7	923.0	939.5	1015.5	1105.7	1156.9	1215.2	1300.4	1414.7	1410.0	1129.4
55°	981.3	979.4	993.5	1080.0	1198.8	1257.3	1325.2	1414.5	1505.9	1459.0	1147.9
57.5°	1049.5	1044.5	1058.2	1165.5	1318.0	1388.0	1457.0	1513.0	1576.6	1500.2	1156.7
60°	1121.0	1110.8	1127.2	1261.6	1458.5	1524.8	1582.2	1597.2	1651.0	1532.9	1141.5
62.5°	1177.9	1178.1	1208.6	1363.9	1602.9	1661.0	1691.4	1705.0	1715.1	1525.8	1061.4
65°	1266.9	1269.9	1318.6	1505.9	1770.0	1820.4	1841.3	1797.3	1717.9	1437.0	941.0
67.5°	1358.6	1368.2	1457.3	1701.4	1963.1	2003.7	1976.8	1815.2	1641.2	1234.5	713.5
70°	1388.5	1404.3	1551.2	1836.0	2078.9	2100.0	2009.0	1731.9	1372.0	825.4	359.1
72.5°	1272.3	1297.9	1497.2	1786.9	2005.1	1986.8	1797.5	1452.5	872.2	313.4	109.6
75°	897.2	908.5	1244.3	1482.4	1612.7	1560.9	1367.3	936.3	358.7	88.0	37.6
77.5°	463.3	457.8	740.0	983.5	1150.1	1096.5	895.4	484.7	135.9	36.7	23.3
80°	239.5	243.5	320.2	515.4	702.1	646.0	477.4	224.7	72.4	20.3	17.9
82.5°	134.2	126.0	184.1	225.1	328.3	257.4	183.1	159.1	31.6	12.2	16.9
85°	24.4	25.6	101.0	121.6	113.9	72.4	59.0	106.2	9.2	6.8	11.8
87.5°	0.4	0.4	19.6	35.0	22.2	10.2	18.6	15.2	1.9	2.6	2.1
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°	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6
2.5°	434.5	427.4	414.0	400.9	384.1	370.4	361.2	351.6	341.8	342.6	344.8
5°	427.0	414.6	388.3	360.4	333.7	309.7	286.0	264.7	256.1	248.2	248.6
7.5°	419.5	402.0	363.4	319.8	279.4	238.4	208.7	184.3	171.3	161.5	158.7
10°	416.1	393.0	340.7	280.7	223.4	178.6	140.5	120.5	105.1	100.2	101.5
12.5°	417.6	388.5	320.2	245.4	177.1	124.5	97.8	87.6	84.2	83.7	83.3
15°	420.4	385.3	300.1	206.3	130.1	92.5	82.2	80.3	79.9	79.5	79.7
17.5°	424.2	382.4	278.6	169.6	99.8	80.8	77.8	76.9	76.7	76.7	76.7
20°	427.9	379.2	254.8	136.9	83.3	76.3	74.5	73.9	73.7	73.7	73.5
22.5°	432.3	376.4	230.5	107.5	76.7	73.1	71.4	71.1	70.9	70.7	70.7
25°	438.5	372.8	204.8	88.0	72.6	70.1	68.4	68.1	67.9	67.1	67.3
27.5°	446.7	370.2	178.2	76.0	68.8	66.4	65.2	64.7	64.3	63.7	63.9
30°	458.0	368.0	150.0	69.4	64.5	62.4	61.3	60.9	60.5	60.0	60.0
32.5°	477.6	368.9	120.3	64.1	60.5	58.1	57.0	56.6	56.2	55.7	55.7
35°	506.9	374.3	96.3	59.6	55.8	53.4	52.3	52.3	51.7	51.0	50.8
37.5°	554.8	388.3	77.3	55.3	51.3	49.1	47.8	47.4	46.8	45.7	45.5
40°	611.4	409.9	65.1	51.0	47.2	44.9	43.8	42.7	41.2	40.0	39.9
42.5°	682.5	432.1	56.4	46.6	43.2	41.2	39.9	38.0	35.7	34.2	34.0
45°	756.6	452.4	50.6	42.7	39.5	37.8	36.3	33.3	30.5	28.6	28.4
47.5°	811.9	456.1	45.9	38.9	36.3	34.6	32.5	28.8	25.0	23.3	22.8
50°	838.0	437.9	41.0	35.2	33.1	31.2	28.6	24.3	20.1	18.0	17.7
52.5°	847.2	406.3	37.0	31.8	29.9	27.6	24.4	19.6	15.8	13.7	13.5
55°	843.5	366.5	33.5	28.6	26.1	23.5	20.3	15.6	11.7	10.0	9.6
57.5°	823.7	315.7	29.9	25.4	22.4	19.7	16.2	11.7	7.9	6.4	6.2
60°	770.5	246.5	26.3	21.8	19.0	16.2	12.8	8.3	4.9	3.6	3.6
62.5°	680.6	182.9	22.9	18.2	16.0	13.0	9.0	5.3	2.6	1.9	1.7
65°	568.8	135.0	19.2	15.4	13.3	10.2	6.4	3.2	1.3	0.6	0.4
67.5°	396.9	83.3	16.0	12.6	10.9	7.3	3.9	1.3	0.6	0.0	0.0
70°	180.3	39.7	12.2	9.6	8.3	5.3	2.1	0.8	0.4	0.0	0.0
72.5°	56.0	20.9	8.6	7.0	5.6	3.4	1.1	0.6	0.4	0.0	0.0
75°	25.9	13.3	5.5	3.8	3.2	1.7	0.8	0.4	0.2	0.0	0.0
77.5°	19.4	10.3	3.2	2.1	1.7	1.1	0.6	0.4	0.2	0.0	0.0
80°	16.9	5.3	1.9	1.3	0.9	0.8	0.4	0.2	0.0	0.0	0.0
82.5°	15.2	2.6	1.1	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
85°	8.3	1.5	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.5	0.8	0.6	0.4	0.4	0.2	0.2	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)