

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: P651693

Luminaire Tested: **GALN-SA1A-840-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651693  
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-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 3115.9 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

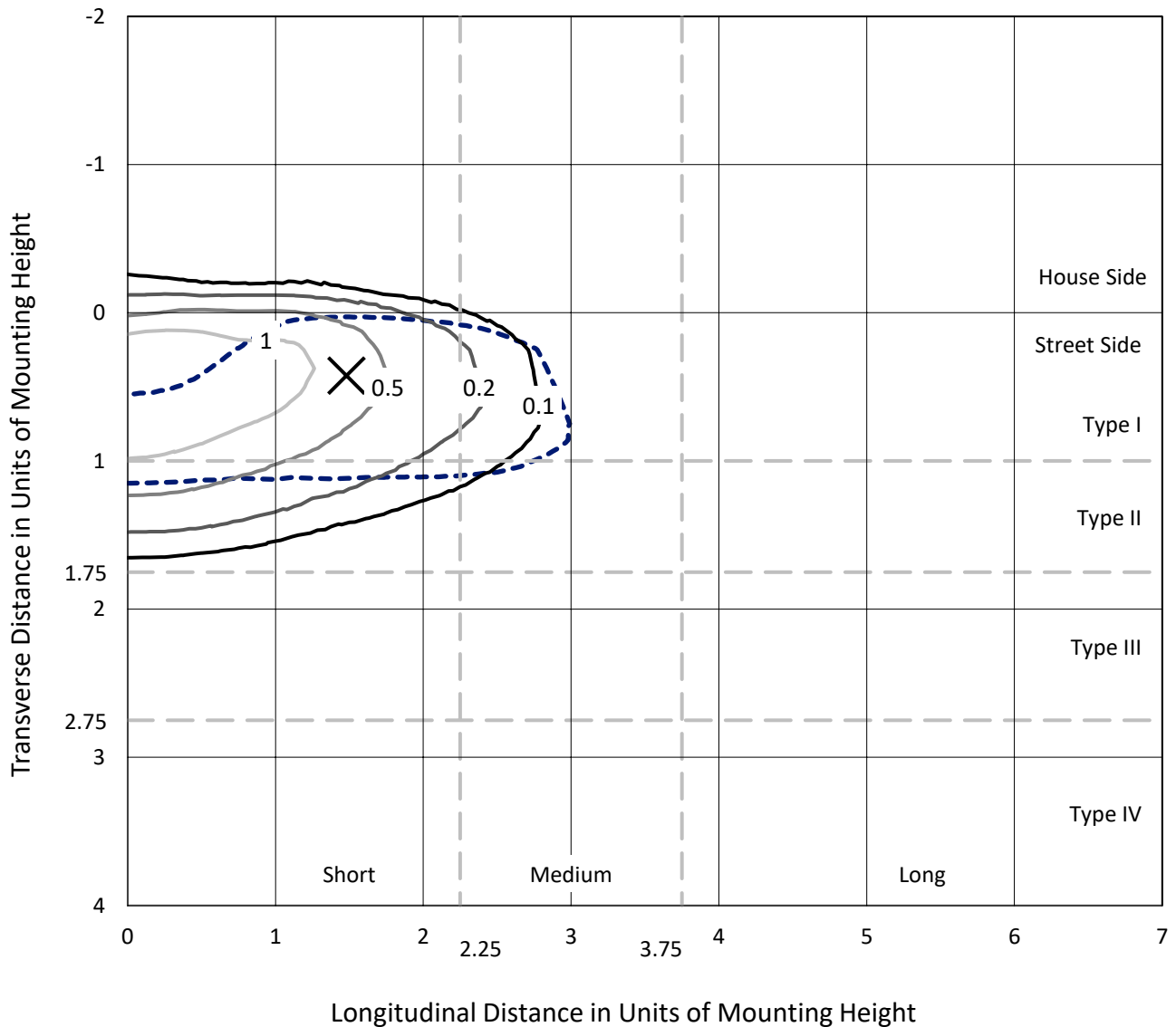
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

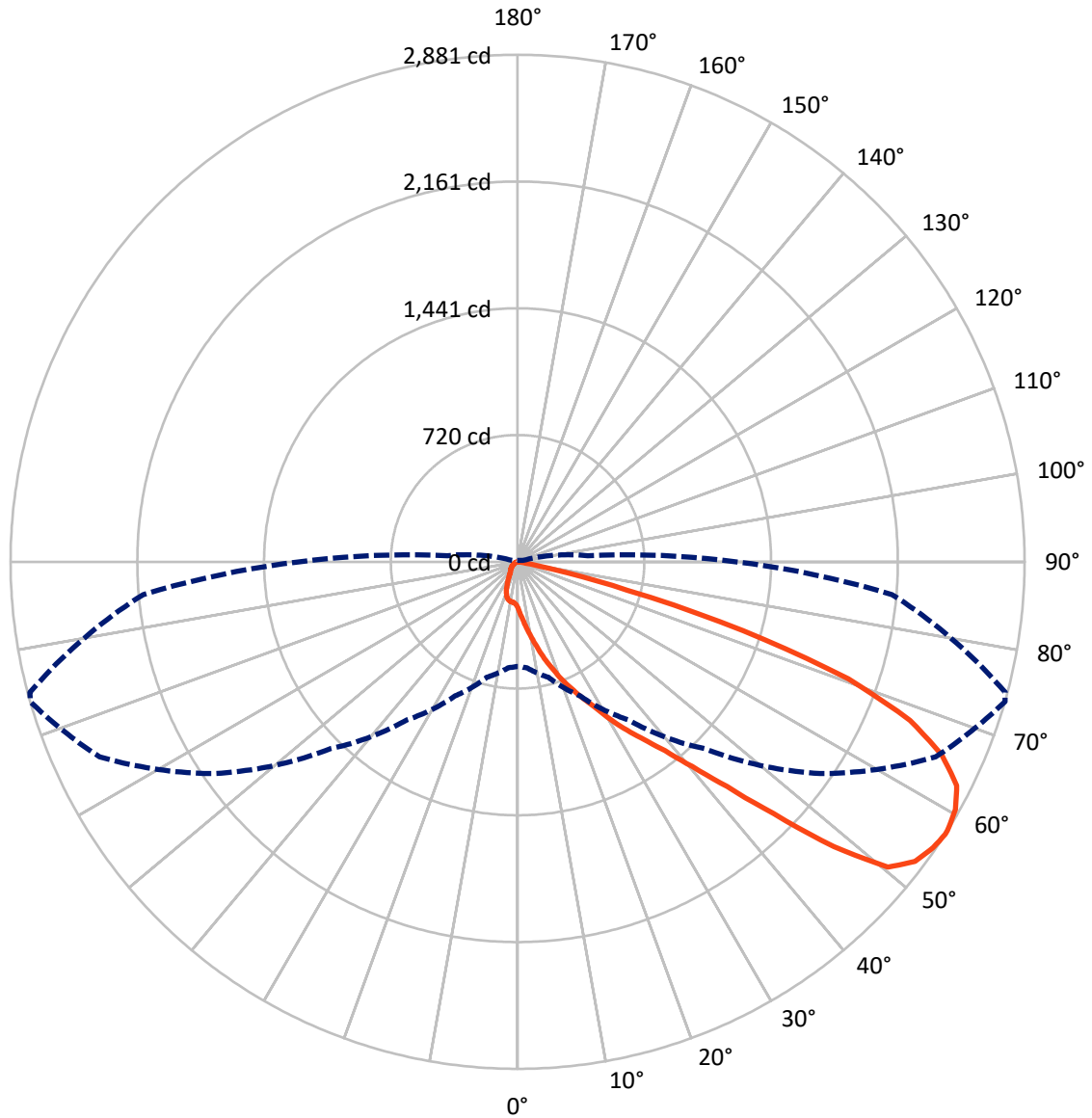
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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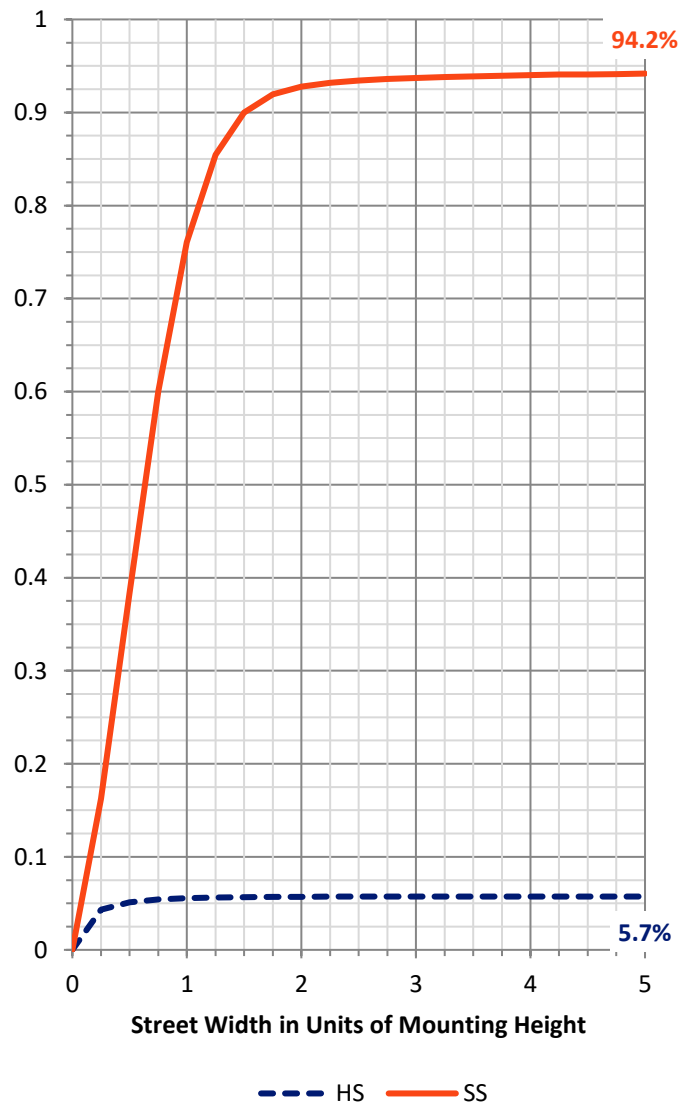
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	179.7	0.0	179.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	2936.2	0.0	2936.2
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	3115.9	0.0	3115.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.5	1.0
10°-20°	124.2	4.0
20°-30°	265.7	8.5
30°-40°	488.3	15.7
40°-50°	748.5	24.0
50°-60°	791.8	25.4
60°-70°	517.1	16.6
70°-80°	141.3	4.5
80°-90°	7.6	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°	3115.9	100.0
0°-180°	3115.9	100.0

**Coefficient of Utilization**

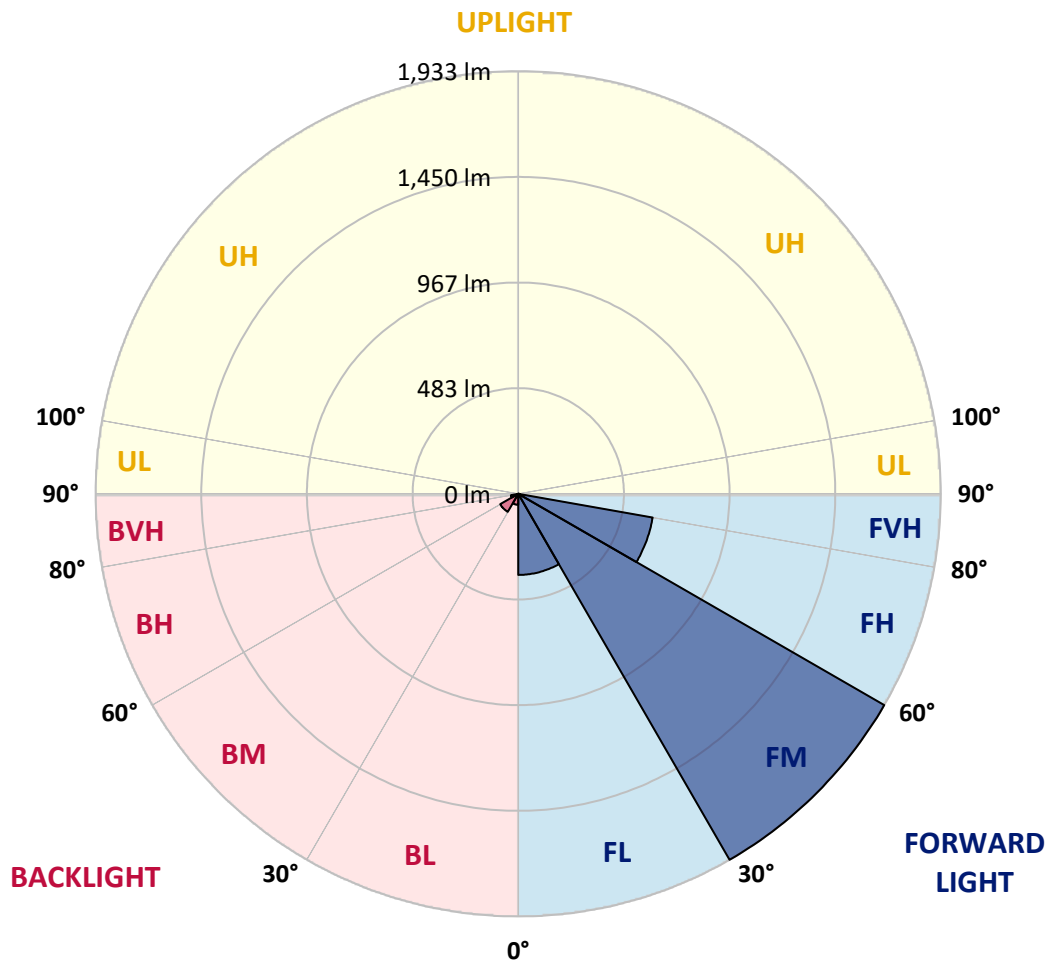


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.1	11.9			
FM (30°-60°)	1933.5	62.1			
FH (60°-80°)	624.6	20.0			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	50.2	1.6	B0/110		
BM (30°-60°)	95.1	3.1	B0/220		
BH (60°-80°)	33.7	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°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0
2.5°	381.9	378.4	371.6	369.2	359.0	343.4	329.6	311.1	296.5	294.9	277.3
5°	511.3	503.6	500.4	484.9	460.6	437.8	398.6	368.9	334.7	332.2	296.7
7.5°	636.1	625.4	622.2	607.5	579.1	543.2	492.4	438.4	384.3	379.3	322.7
10°	726.5	728.0	722.2	712.5	689.5	653.0	590.3	516.5	439.3	433.0	352.0
12.5°	791.2	791.0	792.1	791.9	779.6	751.9	686.1	601.1	500.0	487.7	385.5
15°	833.4	834.0	837.3	848.5	849.7	832.6	777.7	682.0	570.3	555.1	421.8
17.5°	876.0	880.5	885.7	896.3	905.7	898.8	860.1	766.3	634.0	622.6	460.8
20°	946.4	952.6	949.6	956.0	961.0	961.6	931.7	844.2	711.2	692.1	505.4
22.5°	1058.9	1058.7	1050.9	1039.3	1029.6	1029.2	1002.1	924.2	781.4	762.9	550.1
25°	1201.0	1201.7	1186.7	1153.5	1129.5	1099.9	1068.7	994.3	856.5	833.6	597.2
27.5°	1364.1	1360.1	1337.3	1291.6	1243.9	1193.5	1148.6	1075.9	936.0	917.1	651.2
30°	1510.6	1509.2	1482.4	1426.8	1363.9	1313.4	1248.2	1178.1	1039.1	1015.8	711.7
32.5°	1647.0	1649.2	1612.2	1554.5	1493.9	1435.6	1366.7	1275.7	1140.2	1107.3	777.5
35°	1753.5	1755.7	1717.4	1669.4	1607.0	1558.6	1493.0	1379.8	1240.0	1212.2	853.2
37.5°	1810.3	1813.1	1791.0	1754.8	1715.9	1691.6	1630.4	1513.9	1361.3	1344.6	942.7
40°	1821.1	1824.3	1814.6	1805.0	1802.8	1820.2	1802.3	1671.7	1529.6	1503.4	1076.1
42.5°	1788.8	1793.1	1797.4	1818.9	1862.8	1926.7	1988.9	1886.0	1746.3	1710.9	1239.1
45°	1704.0	1703.6	1720.6	1776.4	1874.7	2011.0	2183.8	2154.3	2041.4	1999.4	1469.6
47.5°	1559.0	1556.9	1593.7	1673.1	1826.2	2026.6	2342.8	2480.0	2418.0	2379.4	1717.2
50°	1338.1	1348.6	1406.5	1517.3	1706.0	1979.6	2391.8	2693.6	2727.2	2686.2	1917.2
52.5°	1079.3	1078.9	1169.7	1320.0	1527.8	1876.4	2357.6	2732.4	2827.7	2796.2	2015.8
55°	798.8	804.3	898.8	1050.5	1296.6	1687.9	2246.0	2692.5	2866.0	2843.8	2080.7
57°	594.2	604.1	679.8	840.3	1095.2	1501.4	2097.3	2621.4	2881.0	2869.0	2134.7
57.5°	554.6	555.1	628.8	774.6	1036.3	1429.8	2054.7	2591.7	2880.6	2873.9	2143.5
60°	341.4	352.1	403.2	523.6	758.6	1115.8	1769.2	2421.1	2858.2	2867.9	2181.2
62.5°	204.4	208.9	242.0	315.6	489.0	814.5	1447.9	2202.7	2799.9	2829.4	2178.6
65°	131.4	132.5	147.6	191.1	305.7	550.5	1115.7	1914.2	2649.2	2703.3	2093.4
67.5°	101.5	103.3	109.2	125.4	177.3	342.9	789.1	1606.4	2405.2	2475.1	1886.9
70°	90.2	91.0	93.2	98.3	117.2	193.6	490.9	1254.9	1994.4	2014.3	1476.6
72.5°	73.6	75.9	82.6	84.4	92.9	120.9	273.2	842.3	1340.0	1345.0	826.1
75°	57.0	57.4	67.4	72.2	78.3	83.3	121.9	424.7	643.7	609.2	318.4
77.5°	42.6	44.6	49.0	55.3	63.9	59.6	54.7	160.0	199.8	196.2	92.5
80°	27.3	28.4	34.2	41.5	49.7	38.9	30.8	46.9	43.9	45.2	22.1
82.5°	13.8	14.0	22.0	33.8	31.6	19.6	19.3	19.2	16.3	16.1	10.3
85°	1.5	3.2	14.2	19.3	14.2	6.5	9.0	8.8	8.6	8.8	6.1
87.5°	0.3	0.3	2.4	2.8	1.9	2.2	2.6	2.8	3.4	3.2	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°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0
2.5°	268.7	260.1	244.1	228.9	217.5	210.2	200.7	197.3	192.3	191.7	189.3
5°	280.3	264.0	236.2	214.3	196.6	183.3	171.6	162.0	154.2	152.6	153.4
7.5°	296.9	272.6	233.9	203.9	179.4	156.6	138.1	126.7	118.5	115.6	116.0
10°	315.6	284.0	233.4	193.0	155.5	127.6	107.3	97.2	92.5	90.7	88.8
12.5°	337.7	297.1	232.4	175.9	129.3	101.8	87.4	81.3	76.8	75.5	75.5
15°	362.7	311.1	227.2	154.9	105.0	84.1	74.4	69.7	68.2	66.9	66.9
17.5°	388.7	324.9	216.4	128.8	87.1	72.1	66.0	63.2	61.1	59.6	59.6
20°	418.4	338.4	199.2	105.9	73.6	64.3	59.6	56.3	54.7	53.3	52.9
22.5°	446.6	349.4	177.3	86.9	64.1	57.9	53.6	50.1	48.4	47.8	47.8
25°	475.8	356.1	150.8	71.8	58.5	52.5	47.8	45.0	43.5	43.1	42.8
27.5°	504.3	359.9	127.6	62.8	53.3	47.5	43.1	40.9	39.4	38.9	39.2
30°	538.7	360.5	105.0	56.3	48.9	42.8	38.7	36.8	35.9	35.5	35.3
32.5°	573.6	359.7	88.2	52.5	44.6	38.7	35.3	33.8	33.1	32.5	32.5
35°	612.7	355.2	75.1	48.6	40.5	35.3	32.3	30.9	30.1	29.4	29.3
37.5°	661.3	352.8	67.5	44.3	36.8	32.0	29.3	28.0	27.3	26.5	26.2
40°	737.9	363.4	65.2	40.5	33.1	29.0	26.5	25.0	24.1	23.2	23.0
42.5°	833.4	381.9	61.3	36.6	29.9	26.2	23.6	22.0	20.4	19.3	18.9
45°	957.1	406.2	55.3	32.5	27.1	23.2	20.9	18.8	16.8	15.9	15.7
47.5°	1086.8	429.6	49.9	29.3	24.1	20.7	18.1	15.7	14.0	13.4	13.1
50°	1166.5	434.4	46.5	25.6	21.1	17.8	15.3	13.1	12.0	11.4	11.4
52.5°	1202.8	426.8	41.7	22.4	18.2	15.7	13.1	11.4	10.8	10.3	10.1
55°	1228.2	415.2	35.5	19.3	15.7	13.4	11.6	10.3	9.5	9.0	8.8
57°	1243.0	399.5	30.8	17.0	13.5	11.6	10.3	9.3	8.4	7.6	7.6
57.5°	1243.7	393.5	29.4	16.8	12.9	11.2	10.1	9.0	8.0	7.1	6.9
60°	1224.5	352.1	23.6	14.2	10.3	9.5	8.4	7.1	5.6	4.7	4.5
62.5°	1163.0	299.6	19.6	12.0	8.4	7.3	6.1	5.4	3.9	2.8	2.8
65°	1069.8	243.1	16.8	9.7	6.9	5.4	4.1	3.9	2.4	1.3	1.1
67.5°	935.2	189.3	14.2	8.0	5.8	3.9	2.8	2.6	1.3	0.4	0.0
70°	712.5	129.1	11.9	6.5	4.3	2.8	1.9	1.5	0.8	0.3	0.0
72.5°	410.7	71.0	9.9	5.0	3.2	2.2	1.5	0.8	0.8	0.0	0.0
75°	146.8	30.5	7.6	3.6	2.6	1.7	1.1	0.4	0.7	0.3	0.0
77.5°	46.7	16.3	5.0	2.8	2.2	1.3	0.8	0.4	0.4	0.3	0.0
80°	13.8	8.6	3.0	2.4	1.5	1.1	0.7	0.3	0.4	0.3	0.0
82.5°	7.6	4.3	2.4	1.7	1.5	0.8	0.7	0.3	0.3	0.3	0.0
85°	3.9	2.6	1.9	1.7	1.5	0.8	0.7	0.3	0.0	0.3	0.3
87.5°	2.2	1.9	1.9	1.7	1.5	1.1	0.7	0.3	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)