

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: P450323

Luminaire Tested: **GALN-SA1A-760-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3459 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

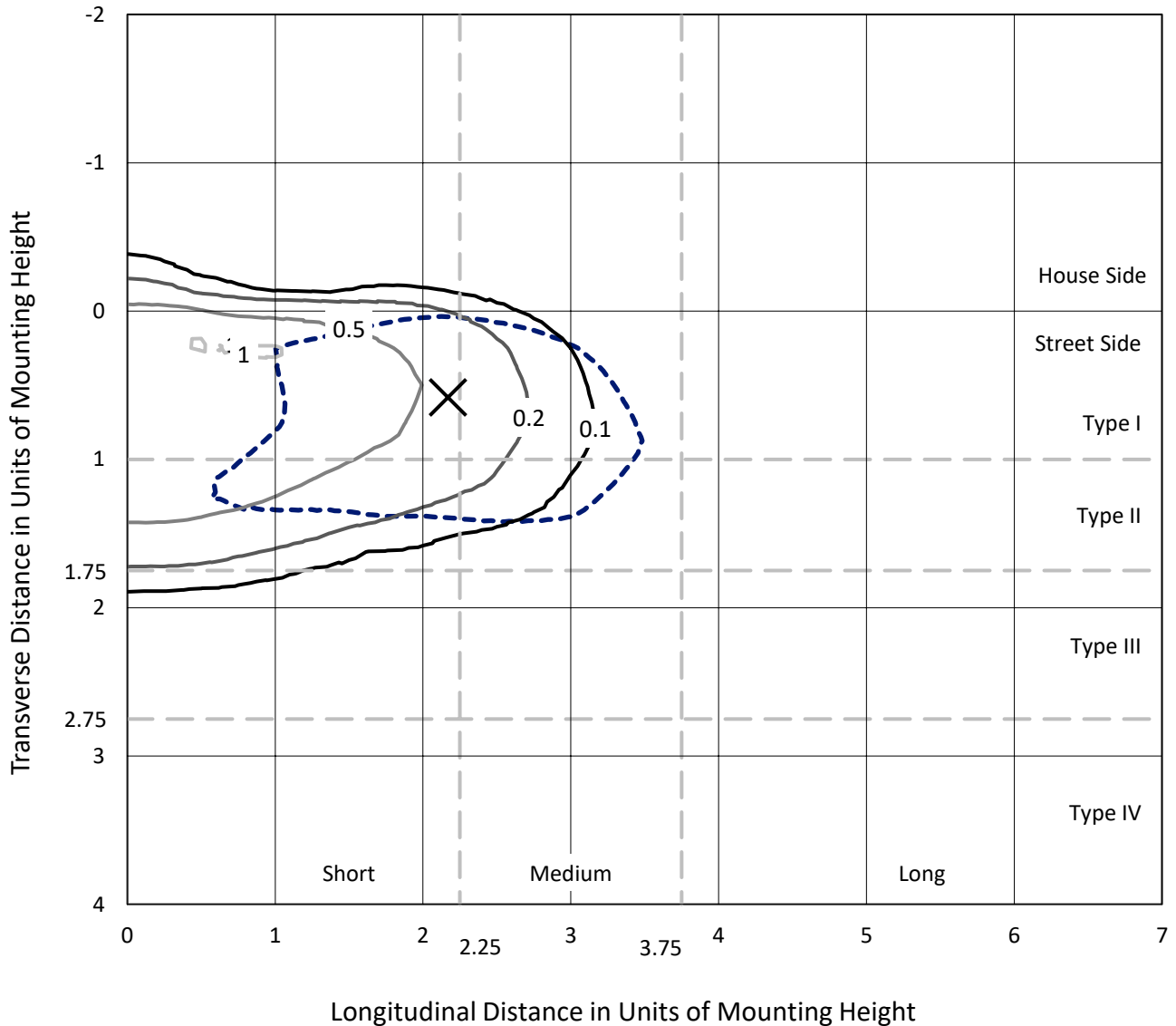
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

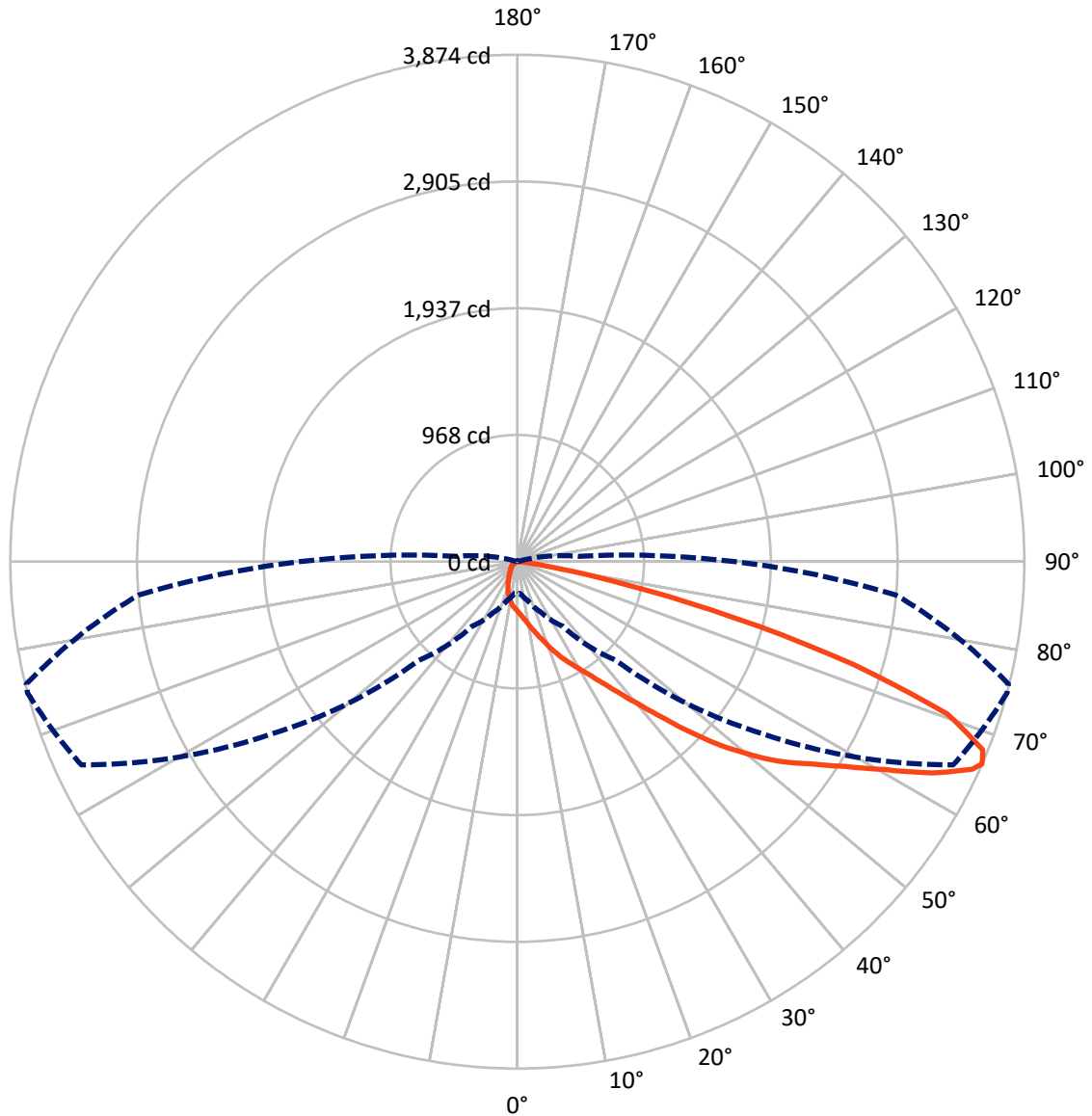
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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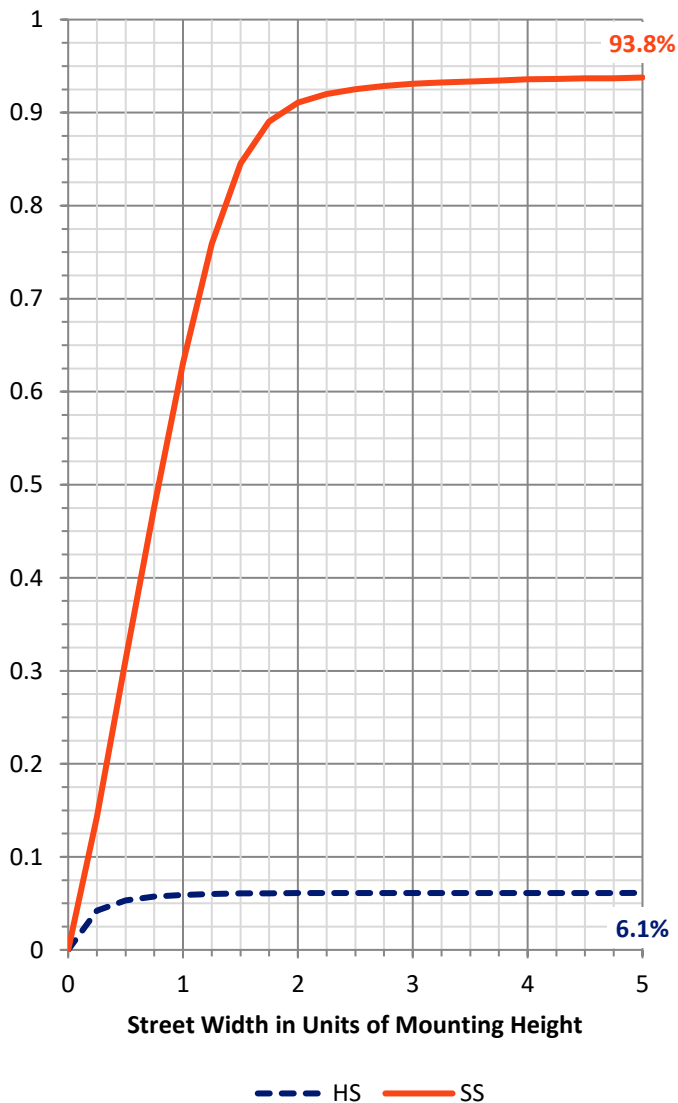
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	213.5	0.0	213.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3245.5	0.0	3245.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3459.0	0.0	3459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.5	1.1
10°-20°	107.4	3.1
20°-30°	185.4	5.4
30°-40°	334.5	9.7
40°-50°	604.2	17.5
50°-60°	942.0	27.2
60°-70°	894.8	25.9
70°-80°	335.4	9.7
80°-90°	18.9	0.5
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°	3459.0	100.0
0°-180°	3459.0	100.0

**Coefficient of Utilization**



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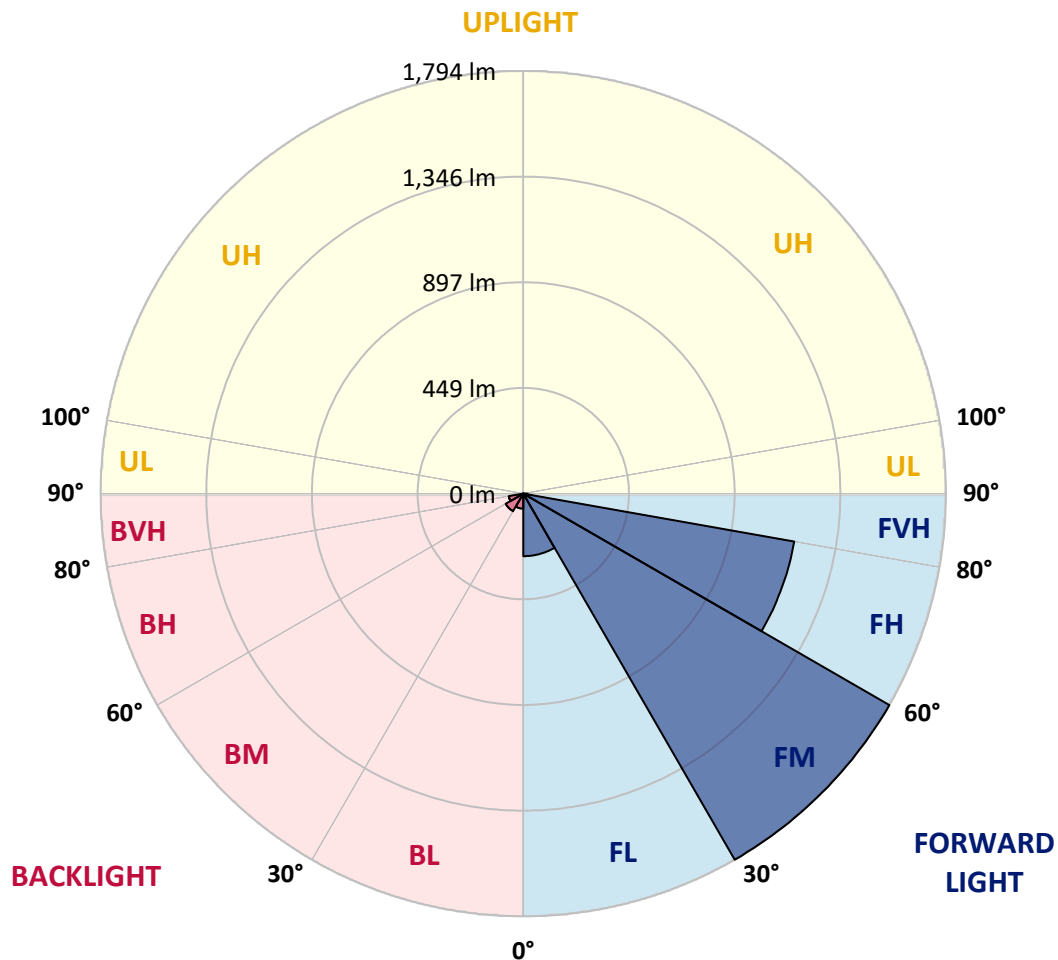
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.5	7.7			
FM (30°-60°)	1794.2	51.9			
FH (60°-80°)	1167.8	33.8			G1/1800
FVH (80°-90°)	17.9	0.5			G1/100
BL (0°-30°)	63.8	1.8	B0/110		
BM (30°-60°)	86.4	2.5	B0/220		
BH (60°-80°)	62.4	1.8	B0/110		G0/110
BVH (80°-90°)	1.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3
2.5°	451.9	446.3	448.1	445.5	439.7	431.0	423.3	412.3	401.3	399.5	387.2
5°	511.5	510.0	507.9	500.5	496.4	483.1	467.3	448.4	425.6	421.5	399.2
7.5°	552.2	551.4	552.5	548.6	545.0	533.0	516.1	490.3	455.0	452.7	415.6
10°	565.5	567.5	571.4	577.5	583.1	579.3	566.5	534.3	493.1	486.5	434.3
12.5°	557.8	560.1	569.3	585.7	603.9	614.3	609.2	585.7	533.5	528.2	455.3
15°	538.1	540.9	554.0	579.3	611.8	641.5	654.2	637.4	580.6	571.9	480.6
17.5°	509.0	513.1	531.7	565.2	609.7	660.9	697.0	691.3	630.7	622.5	508.2
20°	487.0	490.0	505.9	544.3	601.0	671.6	737.6	753.5	692.6	678.5	540.7
22.5°	501.6	502.6	507.9	531.0	585.4	674.5	773.4	818.2	758.3	745.8	574.4
25°	572.9	562.7	557.3	552.2	582.1	671.9	805.9	885.7	823.8	810.5	608.0
27.5°	685.4	680.8	653.7	617.4	610.5	675.2	827.4	949.7	885.5	871.1	640.7
30°	808.0	800.0	783.4	730.2	676.8	698.7	843.0	1011.8	958.3	939.4	670.6
32.5°	920.5	925.6	900.8	846.1	784.2	748.9	863.2	1079.6	1042.0	1018.5	705.4
35°	1051.7	1061.9	1023.8	971.4	899.0	839.4	902.6	1156.1	1148.1	1118.5	759.1
37.5°	1185.0	1191.1	1167.8	1094.2	1028.9	954.5	976.8	1250.4	1278.8	1253.5	823.3
40°	1297.0	1305.4	1288.3	1222.8	1153.2	1087.8	1084.4	1353.3	1434.3	1408.2	919.0
42.5°	1382.7	1389.1	1389.6	1343.3	1280.6	1250.9	1221.8	1484.5	1629.2	1599.0	1030.0
45°	1490.9	1500.1	1494.7	1463.2	1416.4	1411.1	1396.0	1643.0	1862.5	1824.4	1174.0
47.5°	1658.1	1664.3	1651.0	1613.9	1566.3	1574.7	1565.8	1820.8	2100.3	2067.6	1323.1
50°	1774.2	1784.5	1803.4	1818.2	1783.7	1752.5	1725.9	1986.8	2326.2	2296.8	1475.5
52.5°	1773.0	1789.8	1849.7	1924.4	1999.8	1990.4	1913.9	2170.2	2541.8	2505.5	1618.7
55°	1653.5	1686.3	1774.2	1906.7	2115.7	2219.8	2185.0	2382.4	2728.0	2703.4	1784.7
57.5°	1407.0	1426.9	1549.2	1734.3	2051.0	2327.7	2499.1	2670.2	2951.3	2939.8	2042.5
60°	946.3	955.3	1112.6	1341.5	1746.1	2220.0	2729.3	3018.3	3226.2	3220.6	2343.6
62.5°	542.2	546.1	660.1	853.2	1242.5	1881.4	2748.7	3447.7	3555.9	3559.0	2691.9
65°	291.8	293.9	385.9	500.8	756.0	1341.0	2471.7	3683.0	3822.4	3828.3	2907.8
66°	251.9	242.2	307.2	426.9	601.6	1067.3	2296.5	3674.6	3873.6	3867.2	2900.1
67.5°	191.6	200.3	245.3	328.1	445.8	758.9	1896.0	3511.1	3834.7	3814.7	2782.2
70°	137.1	140.7	174.7	234.0	303.6	416.4	1211.6	2916.2	3485.3	3458.4	2423.9
72.5°	88.5	92.3	123.8	169.3	219.4	227.4	678.3	2107.0	2687.1	2683.2	1825.4
75°	63.2	66.8	81.8	121.2	165.0	140.7	326.6	1420.0	1708.3	1696.7	1129.2
77.5°	45.8	47.6	54.7	79.3	117.9	100.8	151.4	758.3	850.4	890.6	499.0
80°	26.3	27.9	38.1	48.3	79.8	68.8	72.4	304.4	313.8	298.7	156.0
82.5°	13.0	14.8	22.8	33.0	49.9	46.3	33.2	91.6	96.7	94.1	39.4
85°	3.1	3.8	12.8	21.7	24.3	20.7	16.1	26.9	33.2	32.5	15.1
87.5°	0.3	0.5	4.6	3.8	4.1	6.9	5.6	6.9	10.7	10.0	5.4
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°	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3
2.5°	381.6	376.7	362.7	348.9	337.4	325.3	314.3	307.9	305.4	302.6	303.8
5°	387.0	375.2	346.8	322.3	298.2	277.8	261.4	250.9	245.8	245.0	243.7
7.5°	394.1	373.9	329.9	291.6	260.1	237.3	218.7	203.6	199.0	194.9	191.6
10°	402.8	371.6	309.0	259.3	225.8	197.2	172.6	154.7	145.5	143.0	144.8
12.5°	412.0	367.3	287.0	229.7	191.1	154.5	131.7	122.8	120.2	119.2	119.4
15°	421.2	361.9	263.9	201.0	152.2	123.3	112.8	110.5	109.5	109.0	108.4
17.5°	429.7	353.2	238.1	173.2	123.3	105.4	101.5	99.5	97.4	96.7	95.4
20°	439.7	343.2	214.8	141.9	104.4	95.4	90.8	87.0	83.9	81.8	81.6
22.5°	449.1	330.4	190.5	117.7	95.1	85.7	78.3	74.2	70.6	68.0	68.8
25°	454.2	314.8	168.8	102.6	86.7	76.0	67.8	62.7	58.8	57.5	57.3
27.5°	454.2	295.7	147.6	93.9	79.0	67.3	58.8	54.0	51.4	49.6	49.9
30°	450.7	274.4	127.9	87.2	72.4	59.6	51.7	47.3	45.3	44.0	43.7
32.5°	447.8	254.2	111.0	80.8	65.5	52.9	46.0	42.7	40.7	39.4	39.4
35°	452.2	236.8	98.0	74.4	59.1	47.8	41.7	38.6	36.6	35.6	35.3
37.5°	463.7	221.0	88.0	67.5	53.2	43.5	38.6	35.0	33.0	31.7	31.2
40°	492.1	212.0	80.6	61.1	47.6	39.9	35.0	31.7	29.2	27.9	27.6
42.5°	537.6	212.3	73.4	55.2	43.2	36.8	32.0	28.1	25.3	24.0	23.8
45°	606.2	222.0	67.8	49.6	39.4	33.5	28.6	24.6	22.0	20.7	20.7
47.5°	688.3	240.9	62.9	44.8	35.8	30.4	25.3	21.2	18.7	17.6	17.6
50°	777.3	265.5	58.1	39.6	32.7	27.1	21.7	18.4	16.4	15.6	15.6
52.5°	868.1	295.2	53.2	35.6	29.4	23.5	18.7	16.4	14.6	14.1	13.8
55°	987.3	333.0	48.1	31.2	25.8	20.2	16.6	14.3	12.3	11.5	11.3
57.5°	1170.6	390.0	42.5	27.4	21.2	16.9	14.3	12.0	9.7	8.4	8.2
60°	1391.9	459.6	36.6	24.0	17.1	13.8	11.5	9.2	7.2	5.6	5.4
62.5°	1599.0	503.9	30.9	20.2	13.6	10.5	8.2	6.9	5.1	3.6	3.3
65°	1690.6	489.0	25.6	16.4	10.7	7.4	5.4	4.9	3.1	1.5	1.3
66°	1660.2	467.0	23.5	14.8	9.7	6.4	4.6	4.1	2.3	0.8	0.8
67.5°	1570.4	415.1	20.5	12.8	8.4	5.1	3.6	3.1	1.3	0.3	0.0
70°	1345.6	335.8	16.1	9.5	6.1	3.6	2.0	1.5	0.8	0.0	0.0
72.5°	1033.5	250.1	12.8	7.2	4.3	2.0	1.0	0.5	0.8	0.0	0.0
75°	633.3	143.0	10.0	5.4	2.8	1.3	0.8	0.0	0.8	0.3	0.0
77.5°	281.1	64.2	6.6	3.6	2.0	1.0	0.5	0.0	0.5	0.3	0.0
80°	71.1	21.0	3.8	2.6	1.5	0.8	0.3	0.0	0.5	0.5	0.3
82.5°	19.4	7.7	2.8	2.0	1.3	0.8	0.3	0.0	0.5	0.5	0.5
85°	7.7	3.6	2.6	2.0	1.5	0.8	0.3	0.0	0.5	0.5	0.5
87.5°	3.6	2.6	2.6	2.3	1.8	0.8	0.3	0.0	0.5	0.3	0.5
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)