

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: P647738

Luminaire Tested: **GALN-SA1A-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2659.9 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

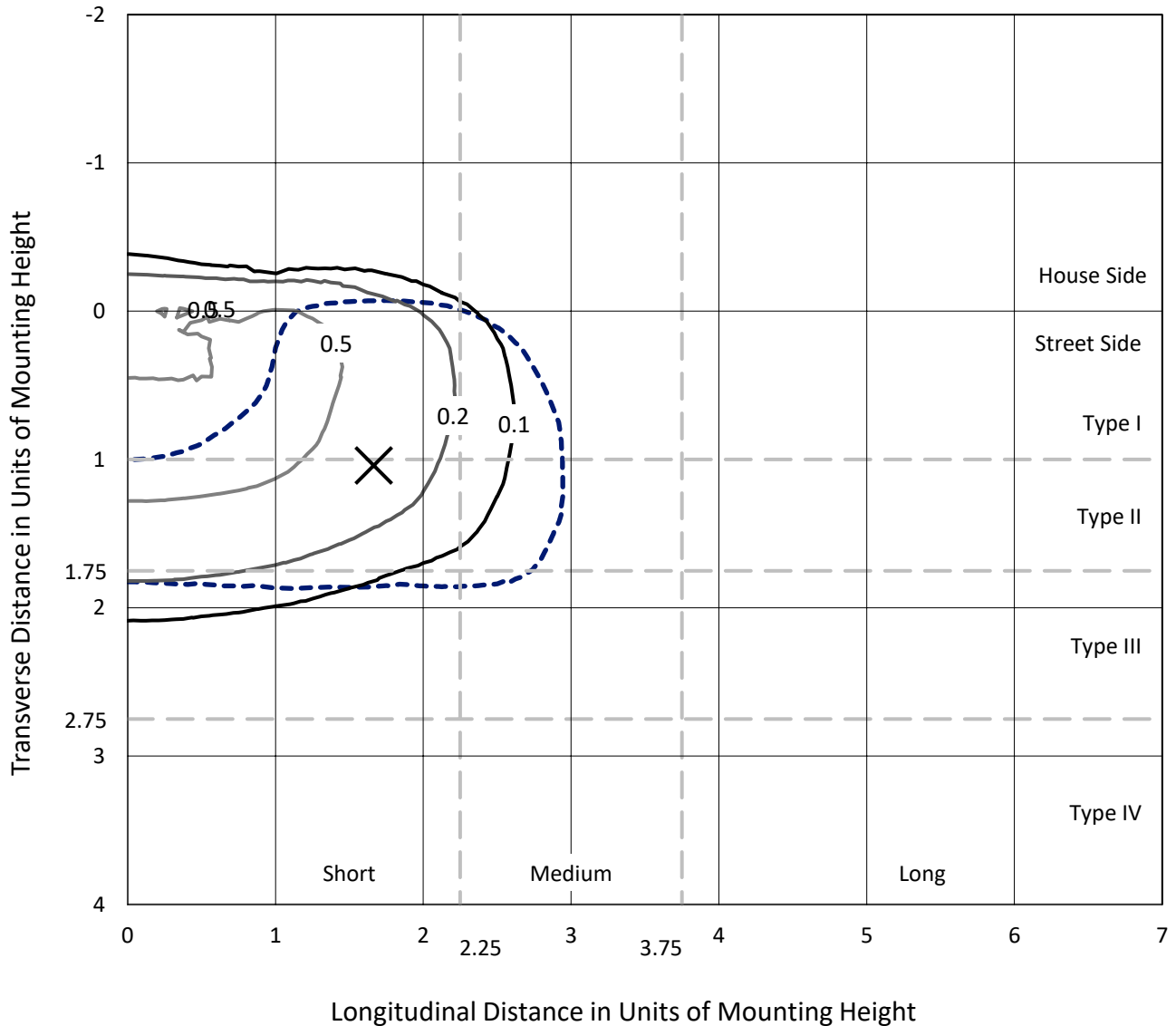
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

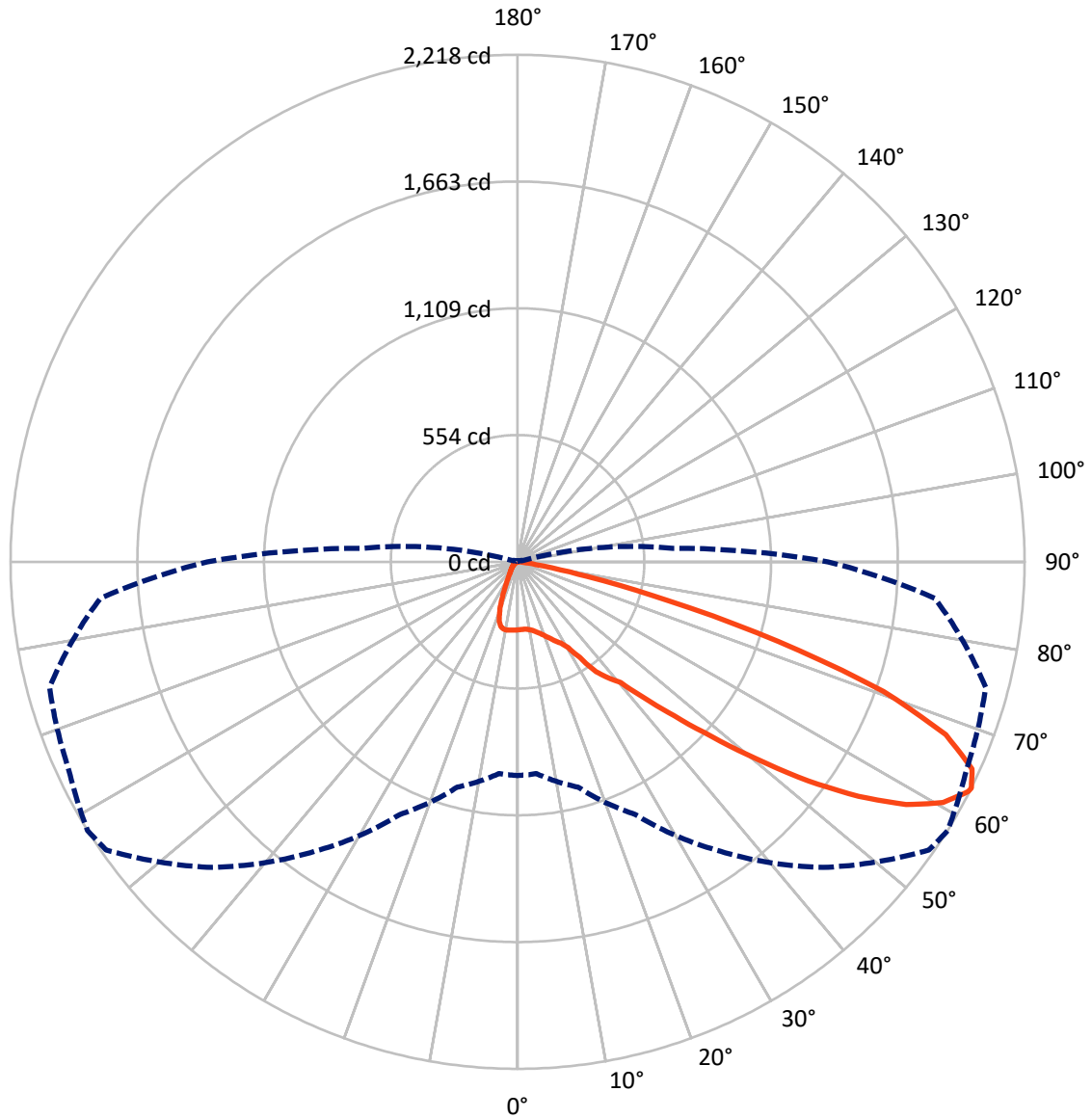
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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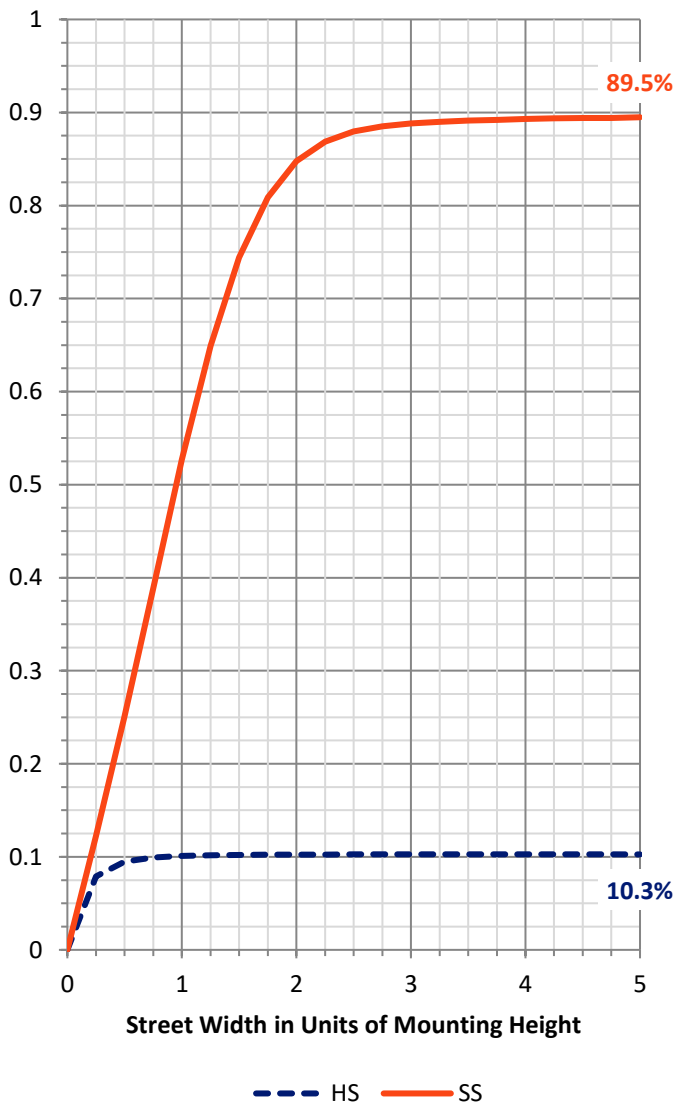
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	275.4	0.0	275.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2384.4	0.0	2384.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	2659.9	0.0	2659.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.9	1.0
10°-20°	75.9	2.9
20°-30°	131.8	5.0
30°-40°	242.1	9.1
40°-50°	455.8	17.1
50°-60°	779.7	29.3
60°-70°	746.5	28.1
70°-80°	190.4	7.2
80°-90°	9.7	0.4
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°	2659.9	100.0
0°-180°	2659.9	100.0

**Coefficient of Utilization**

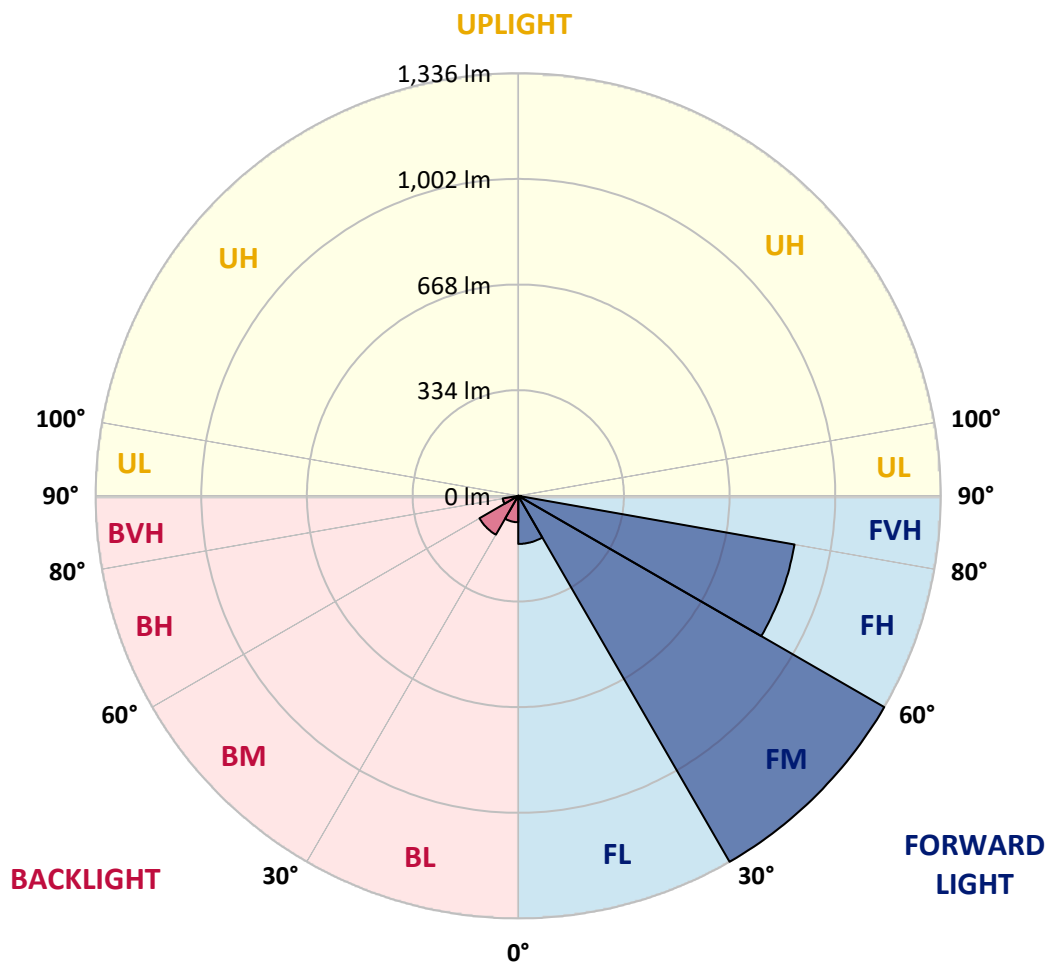


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.0	5.7			
FM (30°-60°)	1336.0	50.2			
FH (60°-80°)	887.1	33.3			G1/1800
FVH (80°-90°)	9.4	0.4			G0/10
BL (0°-30°)	83.5	3.1	B0/110		
BM (30°-60°)	141.7	5.3	B0/220		
BH (60°-80°)	49.9	1.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8
2.5°	290.3	291.4	292.4	292.8	294.2	295.6	296.6	296.4	298.0	298.8	298.8
5°	278.7	278.7	281.3	283.8	287.8	291.7	295.6	296.4	299.4	302.2	303.2
7.5°	269.0	269.5	271.5	275.9	281.3	288.4	296.0	297.8	303.0	309.2	311.8
10°	264.3	264.7	267.3	271.9	278.7	288.4	298.9	302.4	310.4	320.2	323.8
12.5°	263.3	263.9	266.5	271.8	279.5	291.2	305.6	309.2	320.8	333.4	338.8
15°	265.1	265.5	268.2	273.7	282.3	296.2	314.4	319.4	333.2	347.8	354.9
17.5°	271.5	271.2	273.0	277.6	287.2	302.4	325.0	331.1	347.3	367.3	371.8
20°	298.8	296.2	294.6	290.6	294.4	311.2	337.9	346.6	366.7	387.1	390.3
22.5°	357.4	351.6	340.2	324.6	312.6	323.2	353.3	363.5	389.3	409.4	409.4
25°	432.1	424.8	413.3	379.3	349.8	343.0	370.7	383.5	413.9	434.2	427.5
27.5°	525.7	519.8	497.7	458.0	413.0	377.7	390.9	402.7	435.7	460.2	446.4
30°	601.7	599.0	580.8	545.3	495.6	444.2	428.5	436.4	464.8	493.1	478.8
32.5°	666.0	666.0	647.5	614.4	567.9	522.3	492.4	498.1	525.2	557.9	531.5
35°	736.7	734.4	719.3	687.9	635.8	595.5	583.3	590.9	615.6	639.8	574.7
37.5°	811.0	810.2	794.6	764.2	721.7	671.0	642.5	644.4	657.0	671.9	625.4
40°	891.8	892.9	872.5	853.7	813.6	761.8	706.9	694.3	706.1	747.9	719.0
42.5°	987.0	984.2	975.5	949.8	917.6	886.5	820.7	816.0	826.5	871.3	839.8
45°	1097.8	1101.8	1086.6	1072.4	1050.7	1024.9	969.8	961.8	973.3	1043.0	998.2
47.5°	1208.7	1205.0	1214.7	1212.2	1223.8	1204.6	1155.9	1139.4	1166.9	1233.0	1167.3
50°	1293.3	1297.4	1317.9	1347.7	1397.6	1408.4	1361.7	1356.2	1368.4	1410.8	1318.5
52.5°	1348.1	1362.1	1394.2	1470.9	1560.8	1630.7	1595.2	1592.2	1587.2	1598.7	1463.0
55°	1384.0	1398.2	1440.0	1553.0	1707.8	1821.3	1823.1	1810.3	1777.3	1769.0	1598.3
57.5°	1362.0	1364.8	1424.4	1575.4	1789.3	1957.3	2016.1	2003.4	1942.3	1911.2	1717.6
60°	1224.1	1229.9	1313.1	1490.5	1753.8	2001.7	2144.2	2138.3	2071.4	2036.4	1810.5
62.5°	980.1	996.8	1082.4	1280.2	1589.0	1926.9	2196.0	2212.4	2160.4	2112.1	1839.7
63°	935.2	929.8	1020.1	1219.0	1545.4	1889.8	2196.8	2217.6	2164.4	2119.3	1831.8
65°	692.3	708.5	767.2	961.2	1286.1	1717.4	2147.4	2184.2	2149.6	2087.5	1743.0
67.5°	388.7	387.9	452.8	629.0	900.1	1347.2	1941.7	2019.6	2012.4	1873.2	1444.9
70°	190.3	193.2	219.9	326.0	522.1	929.4	1613.4	1697.5	1700.2	1471.3	999.1
72.5°	86.1	87.5	106.6	158.8	268.3	494.9	1111.9	1192.1	1177.3	937.6	551.7
75°	45.5	48.5	58.6	79.9	129.4	204.0	604.8	682.5	651.5	428.4	203.0
77.5°	33.7	34.6	39.9	50.9	69.3	79.5	260.9	310.4	290.8	155.0	67.3
80°	24.7	25.4	29.7	36.0	43.7	40.5	98.3	112.8	101.2	52.7	20.6
82.5°	15.0	15.2	21.6	26.9	27.4	22.6	32.4	34.8	36.4	29.7	11.2
85°	5.4	6.8	14.6	19.4	16.2	11.4	13.6	15.0	16.4	18.8	6.6
87.5°	0.6	0.8	7.0	9.4	4.6	4.2	5.0	5.6	6.0	7.0	3.2
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°	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8
2.5°	299.6	300.4	299.8	298.8	298.6	298.0	296.8	296.8	296.8	297.1	296.8
5°	304.0	304.6	303.2	301.2	298.9	296.2	293.2	291.4	291.2	290.8	289.8
7.5°	312.4	313.2	310.0	305.2	299.2	292.4	286.0	279.9	277.2	275.0	275.0
10°	324.6	325.4	319.0	310.4	298.4	284.5	269.4	255.5	244.7	239.7	238.5
12.5°	339.2	339.7	329.0	314.0	294.2	267.6	235.1	204.8	183.8	174.2	173.2
15°	355.2	352.4	338.4	315.4	282.2	232.5	176.4	139.4	117.5	111.1	113.5
17.5°	371.5	366.3	345.6	313.2	255.1	176.4	118.5	95.1	88.3	86.5	86.5
20°	386.7	379.5	350.9	303.6	208.3	121.5	87.9	82.3	81.1	79.9	80.1
22.5°	401.9	390.9	355.5	282.2	155.2	86.9	78.7	76.9	75.3	73.7	73.5
25°	416.7	401.5	357.3	242.5	105.7	74.7	71.9	69.5	66.3	64.5	64.0
27.5°	432.1	414.4	356.0	192.5	77.1	66.9	64.0	60.7	56.8	53.6	53.6
30°	461.8	438.8	351.9	138.4	64.9	58.9	55.3	49.9	45.6	42.4	42.3
32.5°	502.2	470.6	337.4	97.3	57.7	51.8	46.4	40.5	36.0	33.7	33.7
35°	538.3	502.6	310.4	71.7	51.8	45.0	38.4	32.7	29.2	27.6	27.0
37.5°	593.1	549.5	273.1	58.3	46.3	39.1	32.3	26.9	24.0	22.9	22.9
40°	675.5	606.7	227.5	51.1	40.9	33.3	26.9	22.6	20.4	19.0	19.0
42.5°	777.6	676.9	181.3	45.9	35.9	28.7	22.4	19.3	17.2	16.2	16.1
45°	906.2	750.7	139.6	41.0	31.9	24.4	19.0	16.2	14.3	13.6	13.8
47.5°	1040.3	815.8	108.1	36.9	27.6	20.6	16.2	14.0	12.6	11.8	11.8
50°	1154.8	860.7	82.1	32.0	24.4	17.5	14.3	12.6	11.4	11.0	10.8
52.5°	1250.6	873.7	62.9	27.8	21.5	15.0	12.6	11.4	10.4	9.8	9.8
55°	1332.1	862.3	49.3	23.4	18.0	13.0	11.2	10.2	9.0	8.4	8.2
57.5°	1379.8	825.7	37.7	19.4	14.6	10.8	9.8	8.6	7.2	6.2	6.2
60°	1403.8	772.4	28.8	16.1	11.2	8.6	8.0	6.4	5.0	4.2	4.0
62.5°	1374.9	701.7	21.8	12.6	8.4	6.4	5.4	4.6	3.2	2.4	2.4
63°	1357.1	681.3	21.1	12.0	7.8	6.0	5.0	4.2	2.8	2.2	2.0
65°	1237.2	592.2	17.2	9.6	6.2	4.2	3.4	3.0	2.0	1.0	0.8
67.5°	982.4	453.0	13.6	7.2	4.4	3.0	2.0	1.8	0.6	0.0	0.0
70°	664.2	292.6	10.6	5.2	3.0	1.8	1.0	0.8	0.2	0.0	0.0
72.5°	346.5	150.0	8.2	3.8	1.8	1.2	0.6	0.2	0.0	0.0	0.0
75°	122.5	51.1	6.0	2.4	1.2	0.6	0.2	0.0	0.0	0.0	0.0
77.5°	37.0	19.0	3.8	1.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	13.0	7.0	2.2	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	3.4	1.4	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0
85°	3.6	2.2	1.2	1.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.6	1.2	1.0	0.8	0.4	0.2	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)