

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: P526083

Luminaire Tested: **GALN-SA1A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2787 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

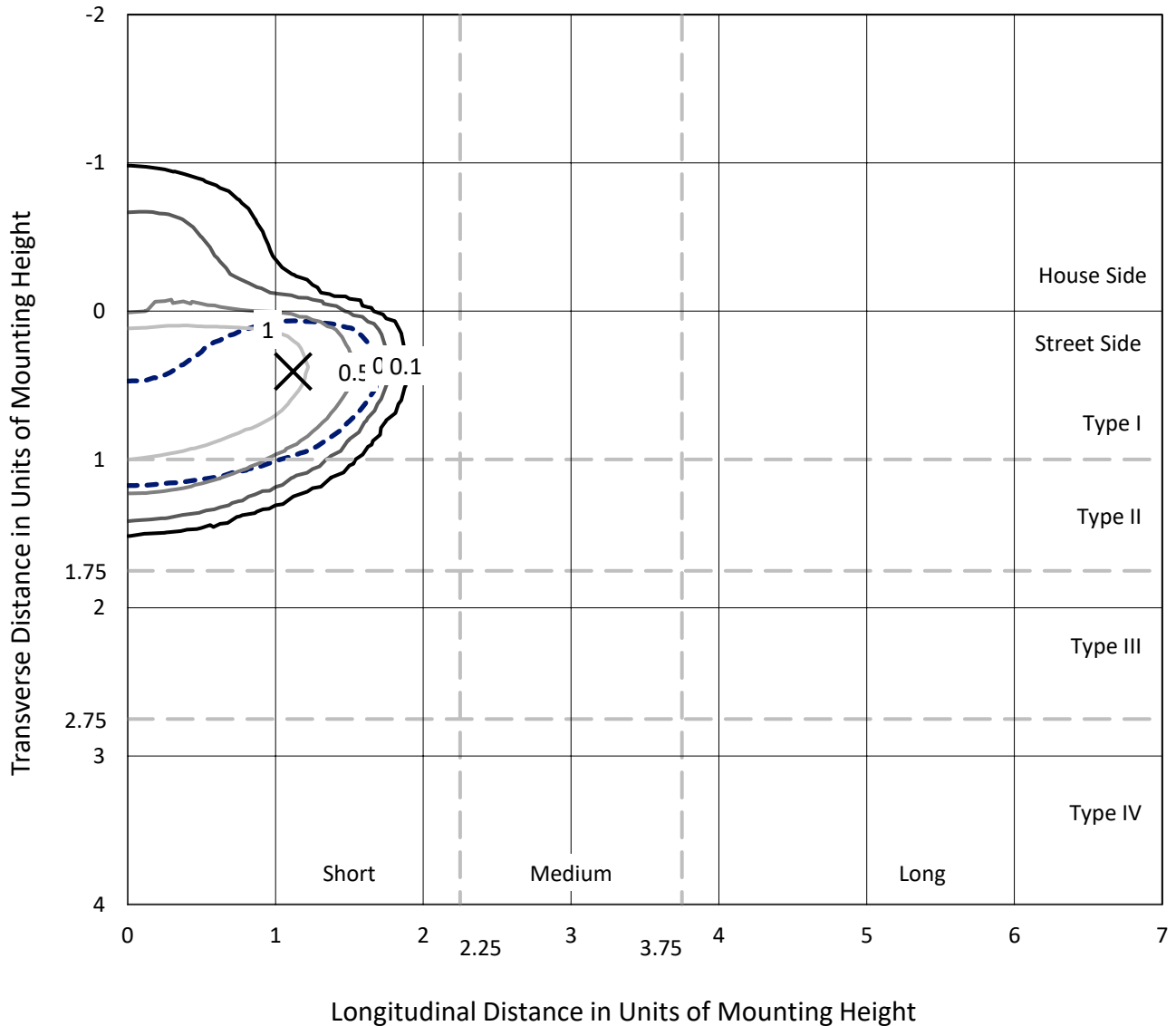
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

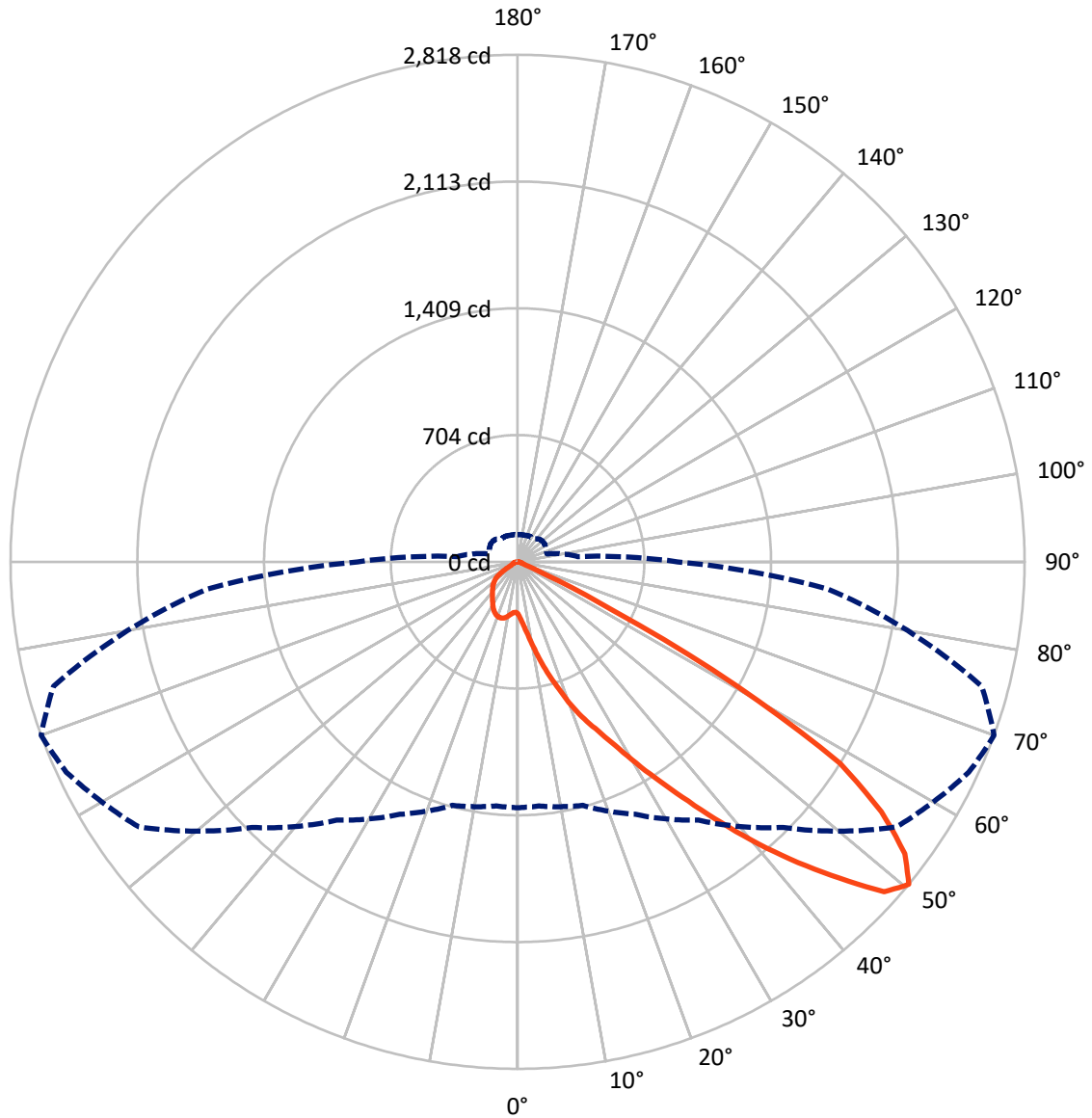
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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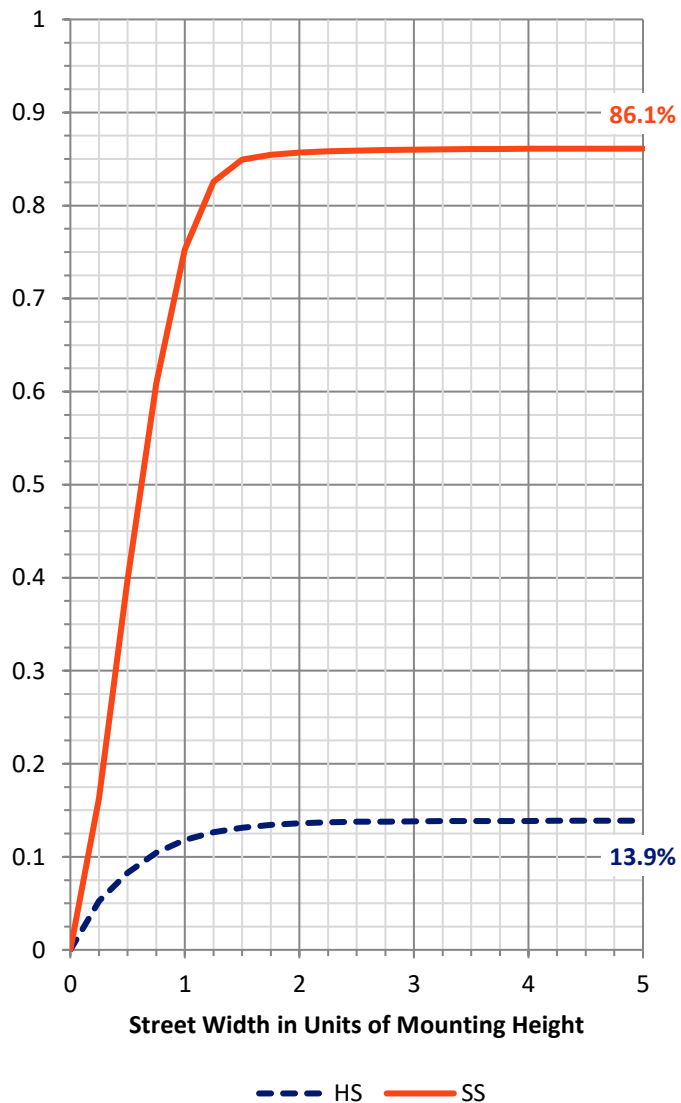
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	389.2	0.0	389.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	2397.8	0.0	2397.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	2787.0	0.0	2787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.3
10°-20°	162.4	5.8
20°-30°	340.6	12.2
30°-40°	587.2	21.1
40°-50°	858.1	30.8
50°-60°	668.3	24.0
60°-70°	113.2	4.1
70°-80°	15.5	0.6
80°-90°	4.0	0.1
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°	2787.0	100.0
0°-180°	2787.0	100.0

**Coefficient of Utilization**

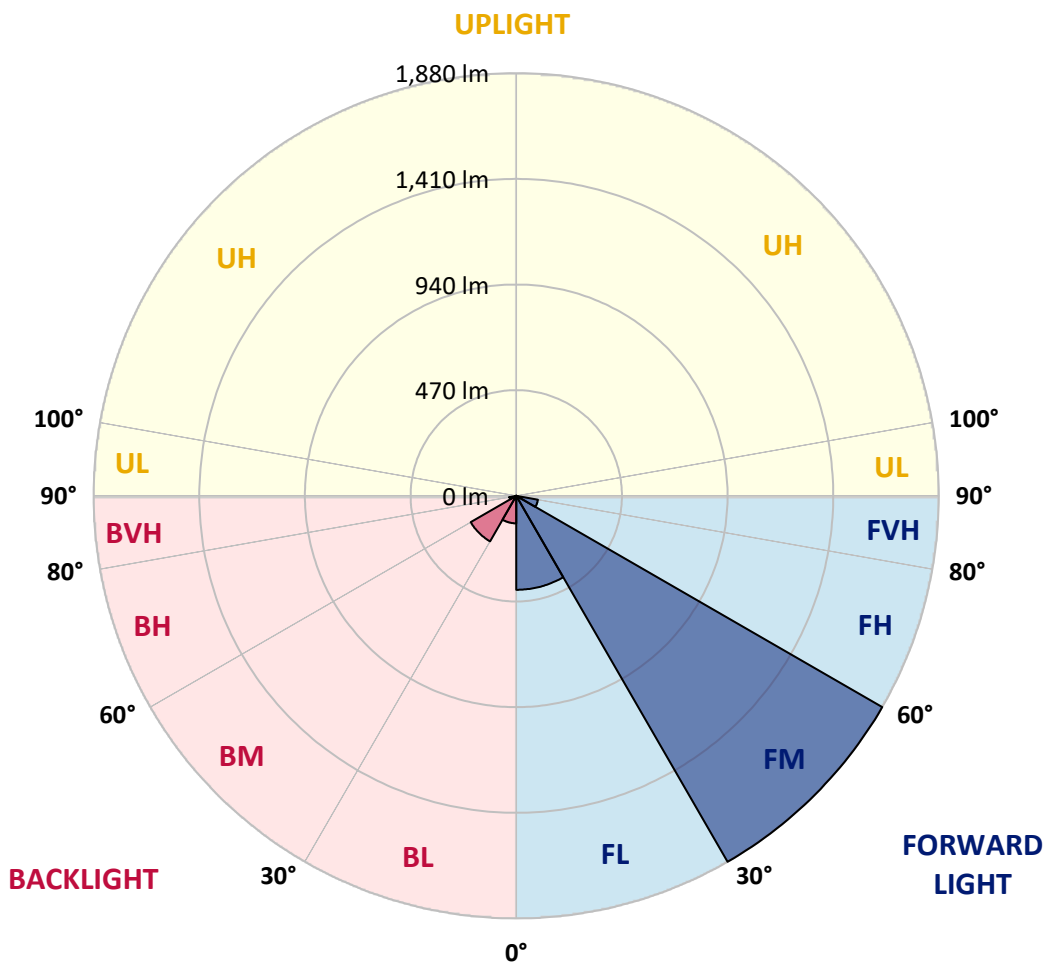


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.1	15.0			
FM (30°-60°)	1879.8	67.4			
FH (60°-80°)	98.0	3.5			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	122.5	4.4	B1/500		
BM (30°-60°)	233.8	8.4	B1/1000		
BH (60°-80°)	30.7	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	378.0	375.3	369.3	358.3	353.7	342.7	336.3	324.0	316.2	307.5	297.8
5°	532.5	518.2	509.5	497.2	461.0	438.5	401.4	369.8	355.1	339.1	317.1
7.5°	691.9	682.7	670.8	644.3	619.5	572.8	509.1	439.4	409.6	382.2	338.6
10°	823.9	798.2	796.8	777.1	750.1	694.2	617.7	531.1	477.9	437.6	369.3
12.5°	916.0	892.6	903.2	900.9	875.7	824.3	735.9	621.3	565.9	503.1	400.9
15°	999.8	990.2	987.0	984.3	974.2	936.1	856.9	731.3	651.1	575.5	436.7
17.5°	1081.9	1057.1	1069.0	1071.3	1070.4	1036.0	961.8	835.8	741.4	652.0	474.3
20°	1154.7	1157.0	1141.0	1137.8	1135.0	1133.6	1061.2	939.4	852.3	732.2	523.3
22.5°	1248.2	1232.2	1246.4	1237.2	1219.3	1208.3	1152.9	1031.0	948.5	828.9	573.2
25°	1358.6	1371.5	1338.0	1334.3	1314.6	1276.6	1226.7	1133.6	1041.1	918.7	627.3
27.5°	1494.7	1472.3	1463.6	1443.4	1407.7	1391.6	1333.0	1239.5	1152.9	1013.1	679.5
30°	1611.6	1605.6	1562.1	1538.2	1507.1	1506.6	1424.6	1382.9	1298.6	1161.1	751.5
32.5°	1706.9	1680.7	1664.7	1648.2	1623.0	1629.9	1560.7	1538.7	1453.9	1298.6	836.3
35°	1770.6	1751.8	1742.2	1716.9	1709.6	1740.3	1711.5	1702.3	1632.6	1492.0	935.7
37.5°	1790.7	1796.7	1794.8	1763.2	1778.8	1861.7	1898.9	1875.0	1838.4	1695.9	1043.4
40°	1808.6	1812.7	1803.6	1840.7	1885.1	1979.5	2113.8	2074.4	2060.6	1902.5	1193.2
42.5°	1818.7	1815.5	1815.5	1879.6	1947.0	2136.7	2321.3	2295.2	2284.7	2122.5	1366.4
45°	1775.1	1744.0	1777.4	1864.5	2000.1	2214.1	2487.2	2523.4	2508.3	2384.1	1568.9
47.5°	1612.5	1631.7	1650.5	1766.9	1935.5	2190.3	2588.9	2712.2	2740.2	2604.1	1701.8
50°	1366.4	1362.3	1401.2	1547.9	1752.7	2087.6	2569.2	2766.7	2817.6	2670.0	1729.8
52.5°	993.9	1024.1	1066.3	1212.0	1454.8	1821.9	2314.9	2626.1	2693.9	2588.9	1711.5
55°	578.7	545.3	640.1	763.4	992.5	1374.2	1957.1	2327.8	2453.3	2441.4	1618.9
57.5°	231.9	224.5	257.1	346.4	517.8	851.8	1423.2	1912.6	2113.8	2236.1	1422.8
60°	101.7	99.4	116.8	141.1	211.7	392.7	778.5	1189.5	1399.4	1562.5	979.2
62.5°	73.3	72.4	81.1	89.8	111.8	170.9	327.2	479.3	597.5	721.7	438.5
65°	59.1	61.4	67.4	71.9	82.5	94.9	115.5	133.3	163.6	169.5	96.7
67.5°	48.1	49.9	55.4	60.5	62.3	51.3	53.2	46.7	46.7	41.7	33.5
70°	35.3	35.7	42.2	48.1	38.5	20.6	36.2	36.2	32.5	31.2	28.4
72.5°	26.1	26.6	31.6	29.8	15.1	12.8	26.6	29.3	26.6	25.2	22.9
75°	19.2	19.7	16.5	6.9	6.4	8.2	15.6	20.2	19.2	18.8	17.4
77.5°	3.7	2.7	2.3	3.2	4.6	6.9	10.1	12.4	12.8	13.7	12.8
80°	0.5	0.5	1.4	2.7	5.0	7.3	10.5	11.9	12.4	12.8	11.9
82.5°	0.0	0.5	1.4	2.7	5.0	6.9	9.2	10.5	11.5	11.9	11.5
85°	0.0	0.5	0.9	2.3	4.1	5.0	4.6	3.2	2.7	3.2	2.3
87.5°	0.0	0.0	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	292.3	290.5	284.1	277.2	271.3	274.0	271.3	269.0	269.9	269.0	268.1
5°	308.4	300.1	286.4	280.4	275.4	274.9	273.6	273.1	273.6	273.6	269.4
7.5°	323.5	310.2	295.6	289.1	283.2	283.6	280.4	280.4	280.0	277.7	276.8
10°	346.4	328.5	309.8	298.3	291.0	289.6	286.4	283.2	283.2	283.2	278.6
12.5°	371.6	349.2	323.5	310.2	301.5	294.6	289.6	288.7	283.6	282.7	280.4
15°	393.6	365.2	332.7	314.3	303.3	294.2	286.4	281.3	279.1	277.7	275.8
17.5°	415.1	378.9	337.7	314.3	302.4	291.9	283.6	279.1	273.6	274.5	270.8
20°	444.0	393.6	339.1	308.4	293.7	283.6	272.6	270.3	267.1	264.4	265.3
22.5°	472.0	404.1	335.0	301.1	280.0	268.1	262.6	259.8	258.4	256.1	252.9
25°	497.2	415.6	328.5	287.8	265.3	256.6	251.6	251.1	247.9	247.9	241.9
27.5°	522.8	419.7	317.5	272.2	252.5	247.4	245.1	244.2	242.9	239.6	235.5
30°	552.2	421.1	301.5	256.1	241.0	235.5	238.7	241.0	235.1	229.1	230.9
32.5°	576.4	417.9	282.3	241.0	232.8	230.0	236.4	238.7	231.9	225.4	222.2
35°	605.8	410.1	263.5	229.1	224.5	230.0	235.5	235.5	221.8	214.0	212.2
37.5°	650.2	401.4	246.1	219.0	215.8	227.3	234.6	229.6	208.0	198.4	196.1
40°	697.9	395.9	229.1	208.9	211.2	222.7	226.8	211.2	189.2	183.3	181.5
42.5°	767.1	384.9	214.0	200.2	207.1	216.3	216.3	188.3	180.1	176.9	176.4
45°	853.2	377.1	200.7	192.9	201.2	203.4	196.1	176.4	170.5	169.5	170.0
47.5°	895.4	362.0	187.0	184.2	190.2	190.6	171.4	166.8	161.8	160.4	159.5
50°	888.9	335.0	169.1	172.7	181.0	176.4	156.3	157.2	152.6	152.1	149.8
52.5°	844.0	292.3	151.2	159.9	169.1	155.8	143.9	143.0	143.0	137.0	134.7
55°	748.3	235.5	129.7	140.7	151.7	131.1	127.8	126.9	124.6	119.1	117.8
57.5°	592.5	172.7	97.6	109.5	128.8	111.3	110.9	106.8	100.8	96.7	96.7
60°	352.4	99.4	61.4	66.9	85.2	90.3	100.4	98.5	88.4	82.0	80.2
62.5°	160.8	51.3	38.9	39.9	45.8	58.7	78.8	91.2	77.0	66.0	65.1
65°	54.1	38.0	32.1	30.7	31.6	35.3	47.2	64.6	61.4	50.9	49.0
67.5°	33.0	33.9	30.2	28.0	28.0	27.5	27.0	29.3	36.2	35.3	35.7
70°	28.4	31.2	28.0	25.2	24.3	22.9	19.2	16.0	13.7	16.0	17.0
72.5°	22.9	24.7	23.8	21.5	19.2	17.4	13.7	10.5	7.8	6.9	6.9
75°	17.0	18.3	19.2	16.5	14.7	12.4	10.1	6.9	4.1	2.7	2.7
77.5°	12.4	13.7	14.2	12.8	11.0	8.7	6.4	4.6	2.3	0.9	0.9
80°	10.5	12.4	13.7	12.8	11.5	8.2	6.0	3.2	1.8	0.5	0.5
82.5°	10.1	12.4	13.7	12.4	11.0	7.8	6.0	3.7	1.4	0.5	0.5
85°	2.3	3.2	4.1	5.0	6.0	6.0	4.6	2.7	1.4	0.5	0.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	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)