

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: P647731

Luminaire Tested: **GALN-SA1A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647731
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-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 2396 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

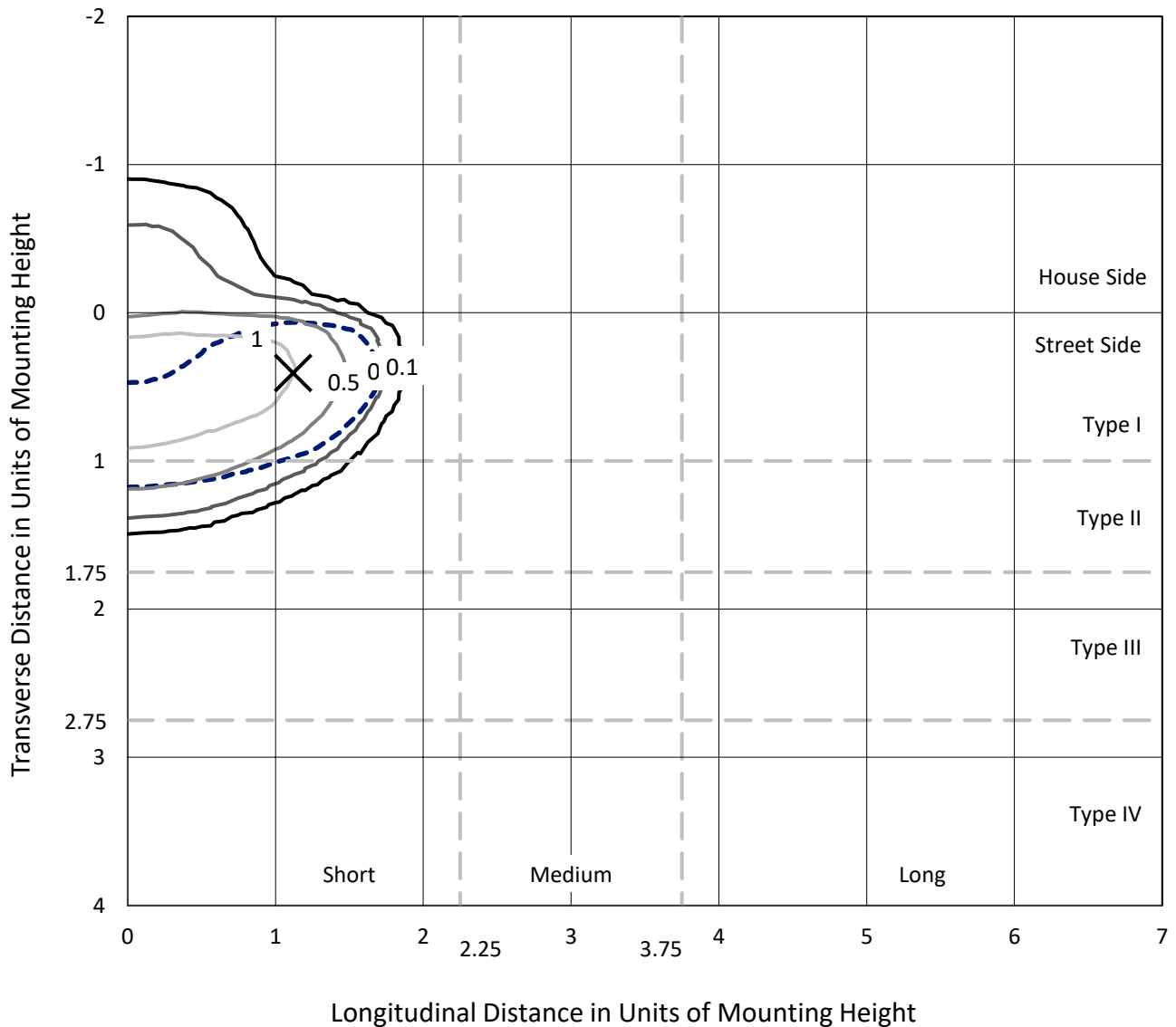
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

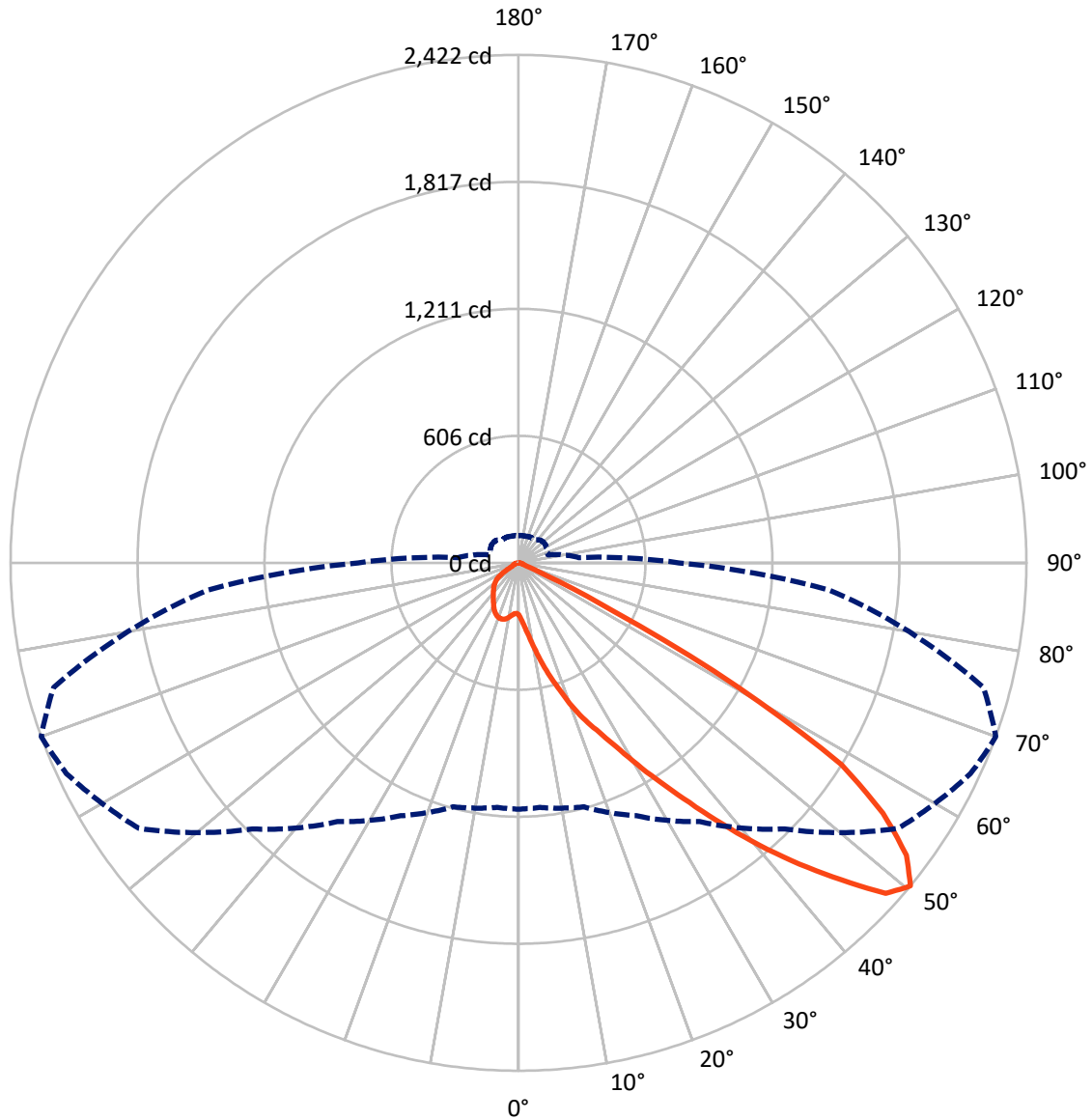
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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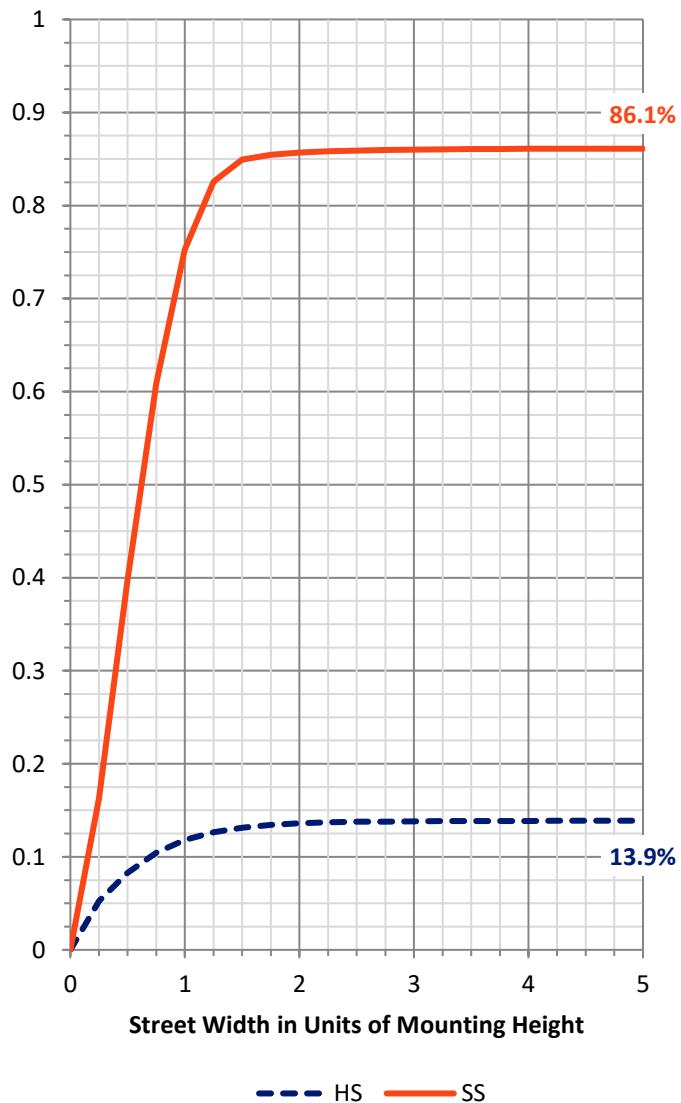
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.6	0.0	334.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2061.4	0.0	2061.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	2396.0	0.0	2396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.3
10°-20°	139.6	5.8
20°-30°	292.8	12.2
30°-40°	504.8	21.1
40°-50°	737.7	30.8
50°-60°	574.6	24.0
60°-70°	97.3	4.1
70°-80°	13.4	0.6
80°-90°	3.5	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°	2396.0	100.0
0°-180°	2396.0	100.0

Coefficient of Utilization

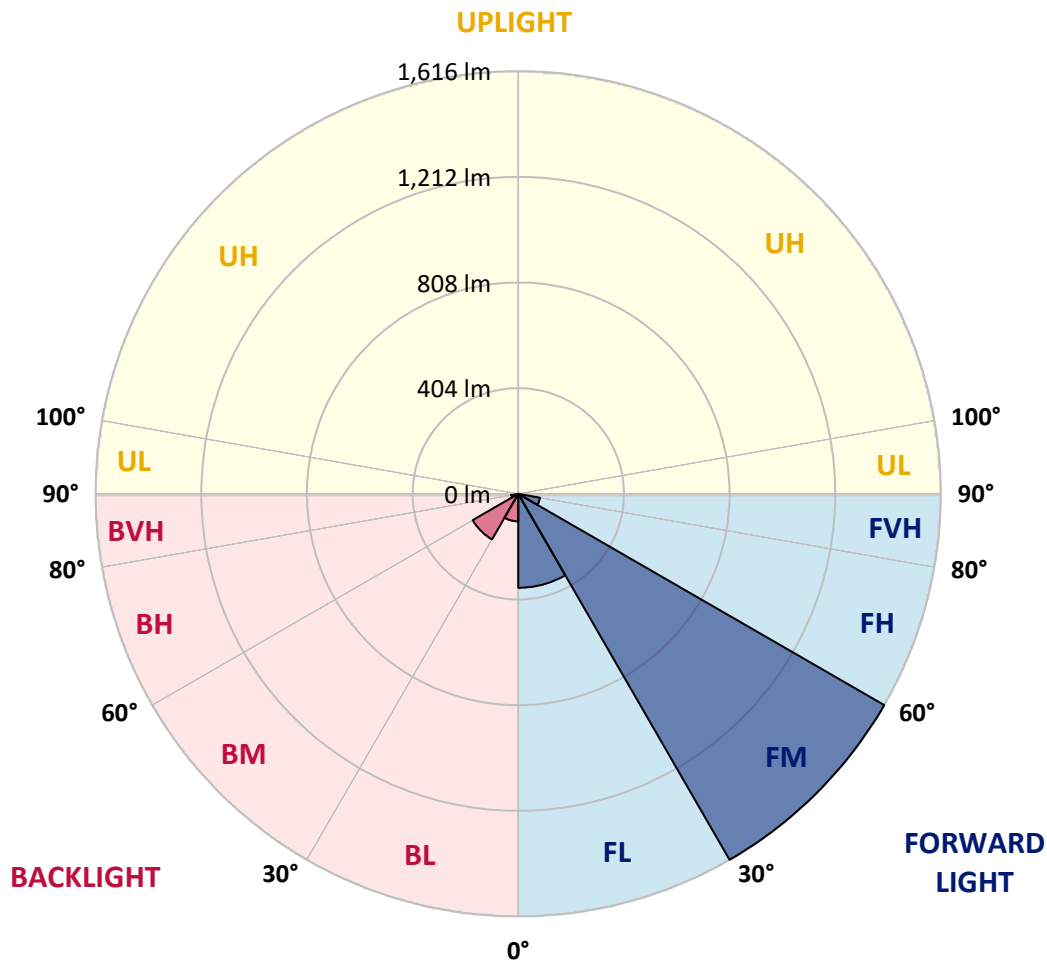


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.4	15.0			
FM (30°-60°)	1616.0	67.4			
FH (60°-80°)	84.3	3.5			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	105.3	4.4	B0/110		
BM (30°-60°)	201.0	8.4	B0/220		
BH (60°-80°)	26.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
2.5°	325.0	322.6	317.5	308.0	304.1	294.6	289.2	278.5	271.8	264.3	256.0
5°	457.7	445.5	438.1	427.4	396.3	377.0	345.1	317.9	305.3	291.5	272.6
7.5°	594.8	586.9	576.7	553.9	532.6	492.4	437.6	377.8	352.2	328.5	291.1
10°	708.3	686.2	685.0	668.1	644.9	596.8	531.0	456.6	410.8	376.2	317.5
12.5°	787.5	767.3	776.4	774.5	752.8	708.7	632.7	534.2	486.5	432.5	344.7
15°	859.6	851.3	848.5	846.2	837.5	804.8	736.6	628.7	559.8	494.8	375.4
17.5°	930.0	908.8	919.0	921.0	920.3	890.7	826.8	718.6	637.4	560.5	407.7
20°	992.7	994.6	980.9	978.1	975.8	974.6	912.4	807.6	732.7	629.5	449.8
22.5°	1073.1	1059.2	1071.5	1063.6	1048.3	1038.8	991.1	886.4	815.4	712.6	492.8
25°	1168.0	1179.0	1150.3	1147.1	1130.2	1097.5	1054.5	974.6	895.0	789.8	539.3
27.5°	1285.0	1265.7	1258.2	1240.9	1210.1	1196.3	1145.9	1065.6	991.1	871.0	584.2
30°	1385.4	1380.4	1342.9	1322.4	1295.6	1295.2	1224.8	1188.9	1116.4	998.2	646.1
32.5°	1467.4	1444.9	1431.2	1417.0	1395.3	1401.2	1341.7	1322.8	1250.0	1116.4	719.0
35°	1522.2	1506.0	1497.7	1476.0	1469.8	1496.2	1471.3	1463.4	1403.6	1282.6	804.4
37.5°	1539.5	1544.6	1543.1	1515.8	1529.3	1600.5	1632.5	1612.0	1580.5	1457.9	897.0
40°	1554.9	1558.4	1550.5	1582.4	1620.7	1701.8	1817.2	1783.4	1771.5	1635.6	1025.8
42.5°	1563.5	1560.8	1560.8	1615.9	1673.8	1836.9	1995.6	1973.2	1964.2	1824.7	1174.7
45°	1526.1	1499.3	1528.0	1602.9	1719.5	1903.5	2138.3	2169.4	2156.4	2049.7	1348.8
47.5°	1386.2	1402.8	1419.0	1519.0	1664.0	1883.0	2225.7	2331.7	2355.7	2238.7	1463.0
50°	1174.7	1171.1	1204.6	1330.7	1506.8	1794.7	2208.8	2378.5	2422.3	2295.4	1487.1
52.5°	854.4	880.4	916.7	1041.9	1250.8	1566.2	1990.2	2257.6	2316.0	2225.7	1471.3
55°	497.5	468.8	550.3	656.3	853.2	1181.4	1682.5	2001.2	2109.1	2098.8	1391.8
57.5°	199.4	193.0	221.0	297.8	445.1	732.3	1223.5	1644.3	1817.2	1922.3	1223.1
60°	87.5	85.5	100.5	121.4	182.0	337.6	669.3	1022.7	1203.1	1343.3	841.8
62.5°	63.0	62.2	69.7	77.2	96.2	147.0	281.3	412.0	513.6	620.4	377.0
65°	50.8	52.8	57.9	61.9	70.9	81.5	99.3	114.6	140.6	145.7	83.2
67.5°	41.3	42.9	47.7	52.0	53.6	44.1	45.7	40.2	40.2	35.9	28.7
70°	30.3	30.7	36.3	41.3	33.1	17.7	31.1	31.1	28.0	26.8	24.4
72.5°	22.5	22.9	27.2	25.6	13.0	11.0	22.9	25.2	22.9	21.7	19.7
75°	16.5	16.9	14.2	5.9	5.5	7.1	13.4	17.3	16.5	16.1	15.0
77.5°	3.1	2.3	2.0	2.7	3.9	5.9	8.7	10.6	11.0	11.8	11.0
80°	0.4	0.4	1.2	2.3	4.3	6.3	9.1	10.3	10.6	11.0	10.3
82.5°	0.0	0.4	1.2	2.3	4.3	5.9	7.9	9.1	9.9	10.3	9.9
85°	0.0	0.4	0.8	2.0	3.5	4.3	3.9	2.7	2.3	2.7	2.0
87.5°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
2.5°	251.3	249.8	244.2	238.3	233.2	235.6	233.2	231.2	232.0	231.2	230.4
5°	265.1	258.0	246.2	241.1	236.8	236.4	235.2	234.8	235.2	235.2	231.6
7.5°	278.1	266.7	254.1	248.6	243.4	243.8	241.1	241.1	240.7	238.7	238.0
10°	297.8	282.4	266.3	256.4	250.2	249.0	246.2	243.4	243.4	243.4	239.5
12.5°	319.5	300.2	278.1	266.7	259.2	253.3	249.0	248.2	243.8	243.0	241.1
15°	338.4	314.0	286.0	270.2	260.8	252.9	246.2	241.9	239.9	238.7	237.2
17.5°	356.9	325.8	290.3	270.2	260.0	251.0	243.8	239.9	235.2	236.0	232.8
20°	381.7	338.4	291.5	265.1	252.5	243.8	234.4	232.4	229.7	227.3	228.1
22.5°	405.8	347.4	288.0	258.8	240.7	230.4	225.7	223.4	222.2	220.2	217.4
25°	427.4	357.3	282.4	247.3	228.1	220.6	216.3	215.9	213.1	213.1	208.0
27.5°	449.4	360.8	273.0	234.0	217.0	212.7	210.8	210.0	208.7	206.0	202.5
30°	474.7	362.1	259.2	220.2	207.2	202.5	205.2	207.2	202.1	197.0	198.6
32.5°	495.6	359.2	242.7	207.2	200.1	197.8	203.3	205.2	199.4	193.8	191.1
35°	520.8	352.6	226.5	197.0	193.0	197.8	202.5	202.5	190.7	183.9	182.4
37.5°	559.0	345.1	211.6	188.3	185.6	195.4	201.7	197.4	178.8	170.5	168.6
40°	599.9	340.4	197.0	179.6	181.6	191.4	195.0	181.6	162.7	157.5	156.0
42.5°	659.4	330.9	183.9	172.2	178.1	186.0	186.0	161.9	154.8	152.1	151.7
45°	733.5	324.2	172.6	165.8	173.0	174.9	168.6	151.7	146.6	145.7	146.2
47.5°	769.8	311.2	160.7	158.3	163.5	163.9	147.4	143.4	139.1	137.9	137.1
50°	764.2	288.0	145.3	148.5	155.6	151.7	134.4	135.1	131.2	130.8	128.8
52.5°	725.6	251.3	130.0	137.5	145.3	134.0	123.7	122.9	122.9	117.8	115.8
55°	643.3	202.5	111.5	121.0	130.4	112.7	109.9	109.2	107.1	102.4	101.2
57.5°	509.3	148.5	83.9	94.1	110.7	95.8	95.4	91.8	86.7	83.2	83.2
60°	302.9	85.5	52.8	57.6	73.3	77.6	86.3	84.7	76.0	70.5	68.9
62.5°	138.3	44.1	33.5	34.3	39.4	50.4	67.7	78.4	66.2	56.7	55.9
65°	46.5	32.7	27.6	26.4	27.2	30.3	40.6	55.5	52.8	43.7	42.1
67.5°	28.3	29.1	26.0	24.0	24.0	23.6	23.3	25.2	31.1	30.3	30.7
70°	24.4	26.8	24.0	21.7	20.9	19.7	16.5	13.8	11.8	13.8	14.6
72.5°	19.7	21.3	20.5	18.5	16.5	15.0	11.8	9.1	6.7	5.9	5.9
75°	14.6	15.7	16.5	14.2	12.6	10.6	8.7	5.9	3.5	2.3	2.3
77.5°	10.6	11.8	12.2	11.0	9.5	7.5	5.5	3.9	2.0	0.8	0.8
80°	9.1	10.6	11.8	11.0	9.9	7.1	5.1	2.7	1.6	0.4	0.4
82.5°	8.7	10.6	11.8	10.6	9.5	6.7	5.1	3.1	1.2	0.4	0.4
85°	2.0	2.7	3.5	4.3	5.1	5.1	3.9	2.3	1.2	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	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)