

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: P647728

Luminaire Tested: **GALN-SA1A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.6 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

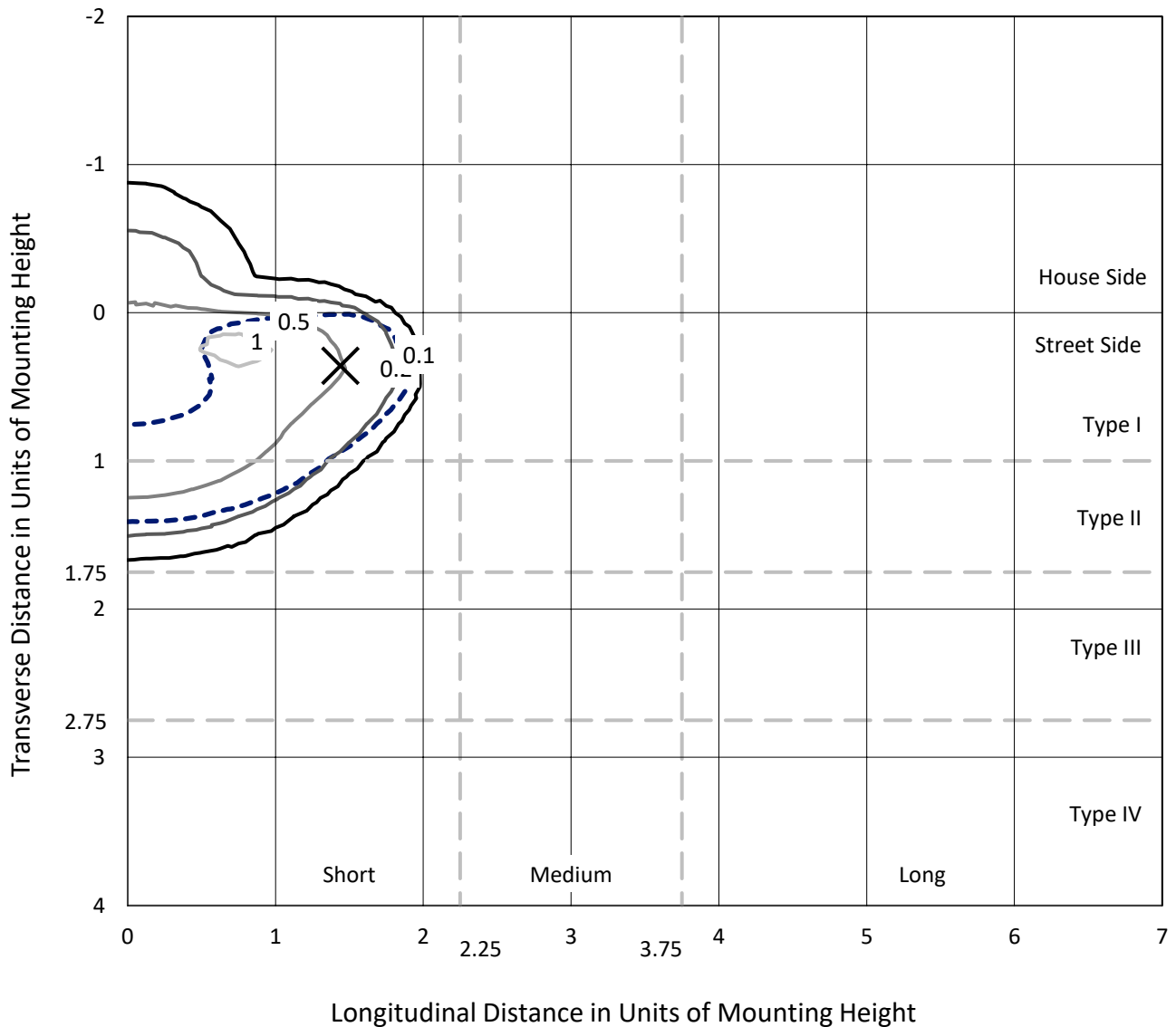
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

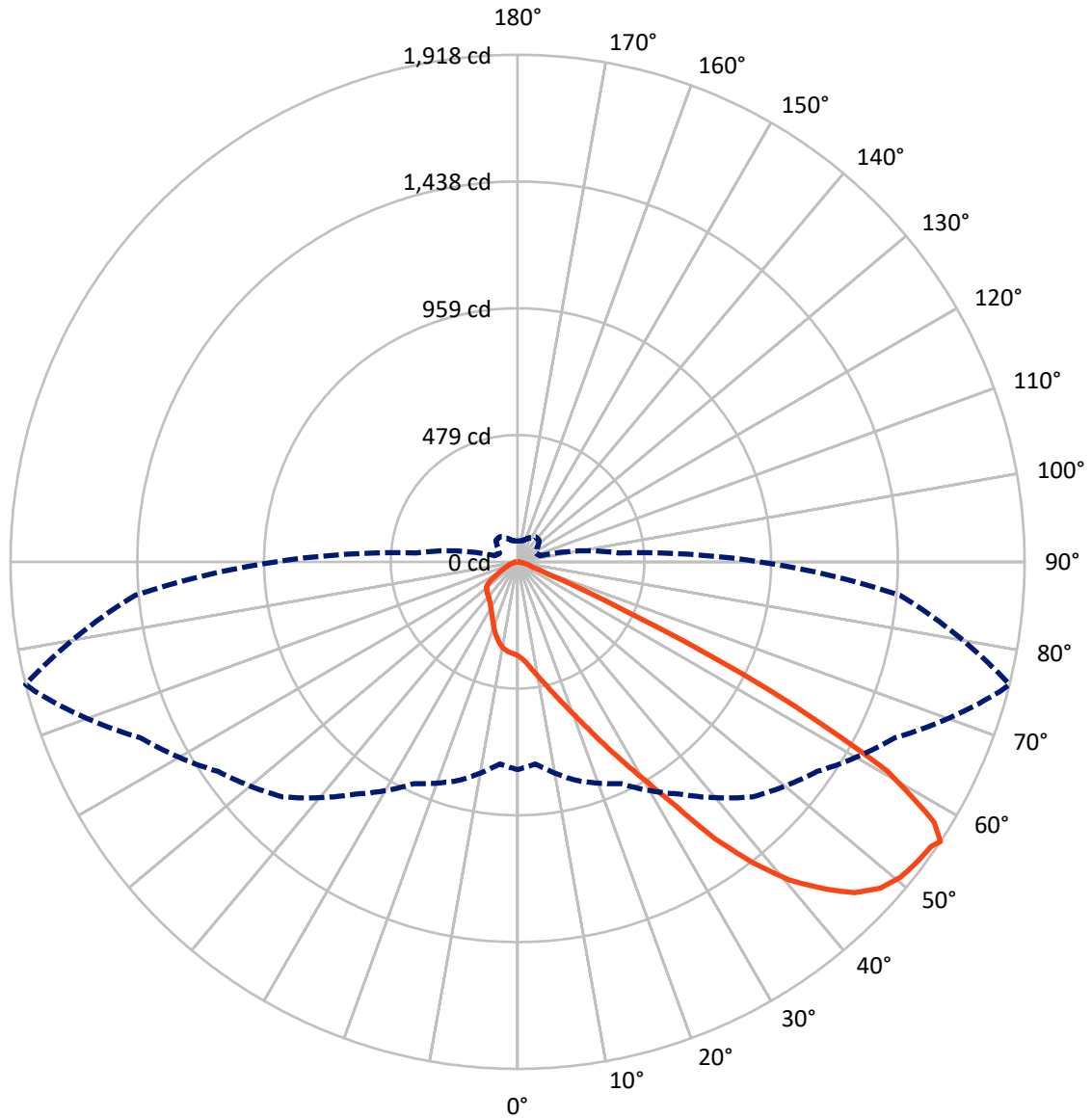
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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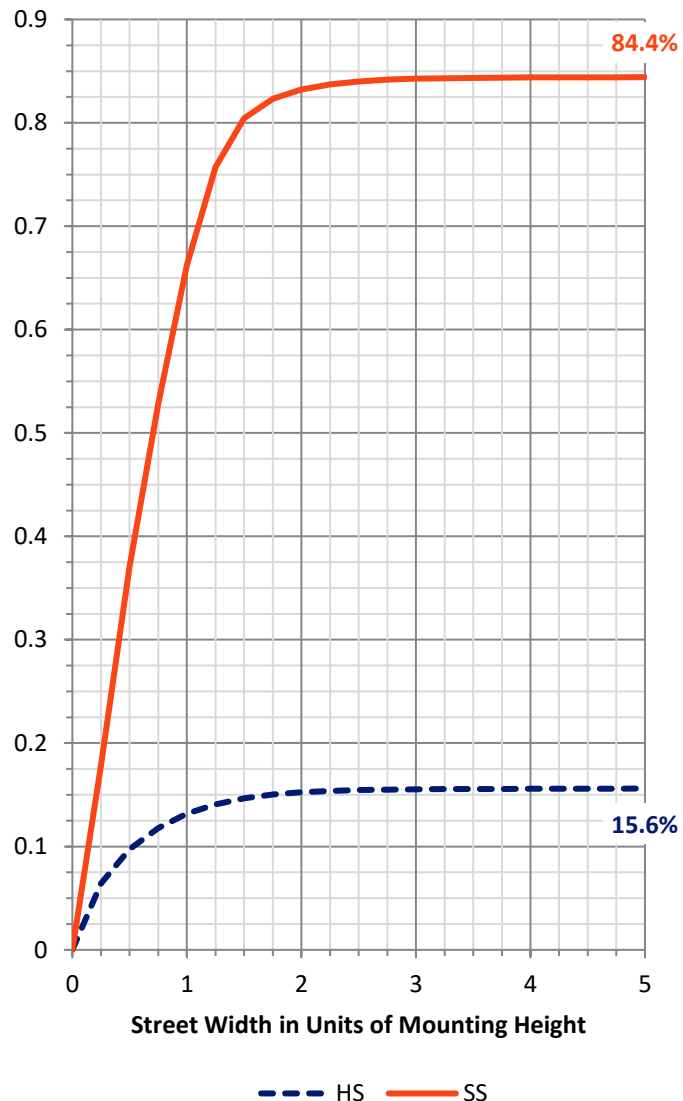
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.8	0.0	335.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	1801.8	0.0	1801.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	2137.6	0.0	2137.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.7
10°-20°	115.1	5.4
20°-30°	208.8	9.8
30°-40°	360.1	16.8
40°-50°	585.0	27.4
50°-60°	616.6	28.8
60°-70°	188.4	8.8
70°-80°	24.1	1.1
80°-90°	3.7	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°	2137.6	100.0
0°-180°	2137.6	100.0

Coefficient of Utilization

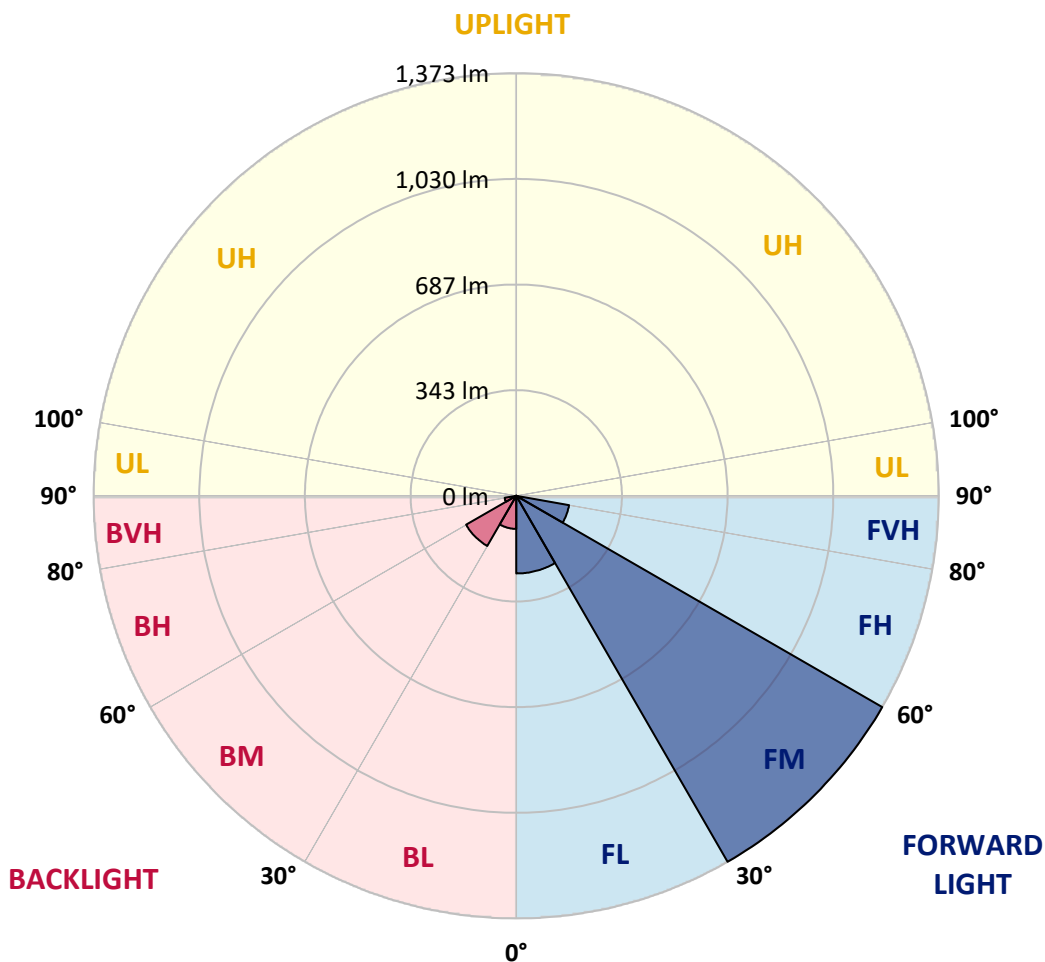


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.4	11.8			
FM (30°-60°)	1373.4	64.3			
FH (60°-80°)	174.2	8.2			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	107.4	5.0	B0/110		
BM (30°-60°)	188.2	8.8	B0/220		
BH (60°-80°)	38.3	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8
2.5°	409.8	400.3	400.7	400.0	398.8	394.4	381.4	379.4	370.8	368.4	360.6
5°	459.1	450.8	455.5	448.4	441.7	437.8	416.5	406.6	392.8	387.7	376.7
7.5°	489.8	485.9	484.3	484.7	478.3	468.5	459.1	437.4	418.8	414.9	391.7
10°	504.7	502.4	504.7	503.5	506.3	507.5	490.9	477.9	450.8	444.0	407.8
12.5°	508.3	513.0	515.0	520.1	526.8	538.2	537.1	519.4	483.1	478.7	432.6
15°	516.9	520.9	518.9	527.2	539.8	559.1	569.4	566.6	527.6	519.8	461.4
17.5°	524.8	517.7	524.5	541.0	553.6	583.2	608.0	619.4	576.1	567.0	487.8
20°	535.5	533.5	532.4	540.6	563.1	602.4	651.7	672.6	630.5	621.0	525.6
22.5°	567.8	568.2	567.4	555.1	571.4	615.8	689.9	741.6	695.5	687.6	568.6
25°	610.3	605.3	601.3	591.4	589.4	628.0	728.6	825.9	773.4	768.0	615.0
27.5°	655.3	655.3	643.5	634.4	621.8	658.4	764.1	907.8	867.6	860.1	655.7
30°	704.2	706.9	705.3	686.0	678.2	691.5	800.3	1012.7	975.6	966.1	722.6
32.5°	776.3	770.3	777.0	760.8	737.6	749.4	857.4	1106.5	1115.9	1102.5	810.5
35°	871.6	868.0	863.7	837.3	809.7	819.2	938.2	1221.9	1292.0	1285.3	899.2
37.5°	957.1	955.1	951.6	933.4	901.5	913.0	1030.0	1342.1	1463.8	1441.7	1024.5
40°	1046.9	1057.6	1046.2	1030.0	1000.8	1026.0	1137.9	1413.4	1608.4	1581.6	1120.2
42.5°	1168.7	1160.4	1165.5	1136.0	1120.2	1147.8	1246.3	1484.7	1720.7	1688.8	1221.9
45°	1298.3	1298.7	1284.9	1275.4	1234.5	1264.5	1312.9	1524.1	1810.1	1785.3	1298.7
47.5°	1381.4	1381.1	1396.0	1411.0	1368.8	1339.3	1358.2	1561.5	1856.3	1844.8	1326.7
50°	1368.4	1372.4	1391.7	1447.7	1469.7	1429.9	1400.8	1550.5	1877.2	1876.0	1350.8
52.5°	1190.3	1203.4	1235.7	1316.5	1427.6	1476.8	1445.3	1571.0	1887.4	1889.4	1386.6
55°	906.2	913.4	974.8	1072.9	1195.9	1364.5	1427.6	1587.1	1895.3	1898.8	1429.9
56°	786.1	767.2	855.8	925.6	1072.6	1256.9	1382.6	1574.5	1890.6	1917.7	1451.6
57.5°	593.4	580.8	652.5	739.6	881.0	1075.7	1243.2	1515.0	1858.6	1858.2	1420.4
60°	361.0	348.4	403.5	454.7	533.9	662.3	840.1	1206.5	1571.4	1604.4	1150.1
62.5°	214.8	222.6	277.0	308.1	333.7	347.1	434.6	717.1	1048.5	1072.2	713.5
65°	143.1	145.8	186.7	238.0	249.4	198.6	176.9	290.4	454.7	440.1	294.3
67.5°	88.2	94.6	125.3	178.9	198.2	145.0	83.9	108.4	125.3	125.3	85.1
70°	53.6	56.8	83.5	121.8	135.9	93.4	61.1	61.1	60.3	59.1	50.8
72.5°	25.6	27.6	42.5	62.6	63.8	49.3	47.3	51.6	50.4	50.0	42.1
75°	11.0	11.8	15.0	19.7	22.5	20.9	28.7	37.0	38.2	37.0	30.3
77.5°	3.5	3.9	5.5	7.1	7.5	9.1	12.2	15.3	17.7	16.5	15.0
80°	0.4	0.8	1.6	3.5	5.5	7.1	9.1	10.3	11.4	11.4	10.6
82.5°	0.4	0.4	1.6	3.1	5.1	6.7	8.7	9.9	11.4	11.8	11.0
85°	0.0	0.4	1.2	2.7	4.3	4.3	3.9	3.9	2.7	2.7	2.7
87.5°	0.0	0.0	0.4	0.4	0.4	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°	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8
2.5°	358.9	358.1	347.5	340.8	337.3	330.2	325.9	322.7	320.3	317.6	318.0
5°	363.7	361.0	343.2	331.0	316.4	308.5	301.8	296.3	292.8	292.0	290.4
7.5°	377.1	362.5	335.7	313.7	295.1	287.3	281.3	277.8	279.4	275.9	278.6
10°	387.4	365.7	326.7	294.7	276.2	270.3	267.2	269.9	273.8	272.2	270.3
12.5°	400.0	368.8	312.1	276.6	259.3	254.9	260.4	265.6	273.4	276.6	272.6
15°	414.1	372.3	293.5	255.7	244.7	248.2	257.7	266.8	274.6	278.6	280.9
17.5°	431.4	371.1	275.5	239.2	230.9	241.2	252.6	260.8	272.6	278.6	277.0
20°	447.6	367.2	255.3	222.6	223.0	232.5	241.9	255.3	261.6	269.5	266.8
22.5°	463.0	360.1	234.4	211.2	211.2	225.7	230.5	239.2	244.7	248.6	248.2
25°	484.7	346.7	217.1	200.1	204.9	214.4	218.3	221.0	218.7	221.8	222.2
27.5°	500.0	332.9	203.0	190.3	199.0	206.1	204.9	203.3	197.8	193.5	196.2
30°	516.5	316.8	190.7	183.6	188.3	194.7	190.0	185.2	176.5	169.4	169.8
32.5°	540.2	309.3	180.1	175.7	182.0	182.8	177.7	170.6	161.9	155.3	154.9
35°	584.4	304.6	171.0	170.6	171.8	172.2	167.1	158.4	154.9	149.3	151.3
37.5°	628.4	302.2	164.7	163.1	162.7	163.1	157.2	148.9	155.7	155.3	156.1
40°	684.8	312.9	155.7	153.7	154.1	154.1	146.6	144.2	156.1	157.2	157.6
42.5°	742.0	326.3	149.7	143.4	145.0	145.0	141.1	138.3	146.6	138.7	137.5
45°	791.6	345.9	143.4	133.2	137.1	139.1	137.9	133.2	128.0	114.6	114.6
47.5°	807.7	363.3	135.9	123.3	126.5	135.1	131.6	121.8	112.7	101.6	100.9
50°	836.1	382.2	130.1	111.9	118.6	129.3	125.7	115.8	105.6	97.7	98.1
52.5°	865.3	403.9	119.0	98.5	106.8	124.5	124.5	113.5	97.7	92.2	91.4
55°	909.0	403.1	99.3	80.8	95.4	117.4	119.4	101.6	87.5	83.2	83.2
56°	915.3	385.0	89.4	75.6	90.2	115.4	115.8	98.5	83.5	78.8	78.8
57.5°	868.0	347.5	78.4	69.4	83.9	111.9	112.3	95.8	80.4	73.7	72.9
60°	667.9	235.2	65.4	61.9	76.0	100.9	102.8	87.1	70.5	65.4	65.0
62.5°	377.1	130.4	57.6	56.0	65.4	85.9	91.8	76.0	59.9	57.2	57.9
65°	172.2	71.7	48.5	45.3	52.8	66.2	74.1	62.6	49.3	46.1	46.1
67.5°	63.0	48.9	41.3	35.9	37.0	43.0	48.1	40.6	32.7	28.0	29.1
70°	44.9	41.0	36.3	31.2	28.7	28.0	27.6	22.9	16.1	12.6	13.4
72.5°	36.3	33.9	30.3	26.4	22.5	18.9	16.1	11.8	7.5	5.1	4.7
75°	26.0	24.8	22.1	18.9	15.7	13.4	11.0	7.5	3.9	2.0	2.0
77.5°	13.4	13.4	13.0	11.8	9.9	7.9	6.3	4.3	2.3	0.8	0.8
80°	10.3	11.0	11.4	10.3	9.1	7.1	5.1	3.1	1.6	0.4	0.4
82.5°	9.9	11.4	12.2	10.6	9.1	6.7	5.1	3.1	1.6	0.4	0.4
85°	2.3	2.3	3.5	3.9	5.1	5.5	4.3	2.7	1.2	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	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)