

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: P526447

Luminaire Tested: **GALN-SA1B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526447
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-SA1B-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 2800 lumens
Efficiency: N/A
Efficacy: 63.6 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

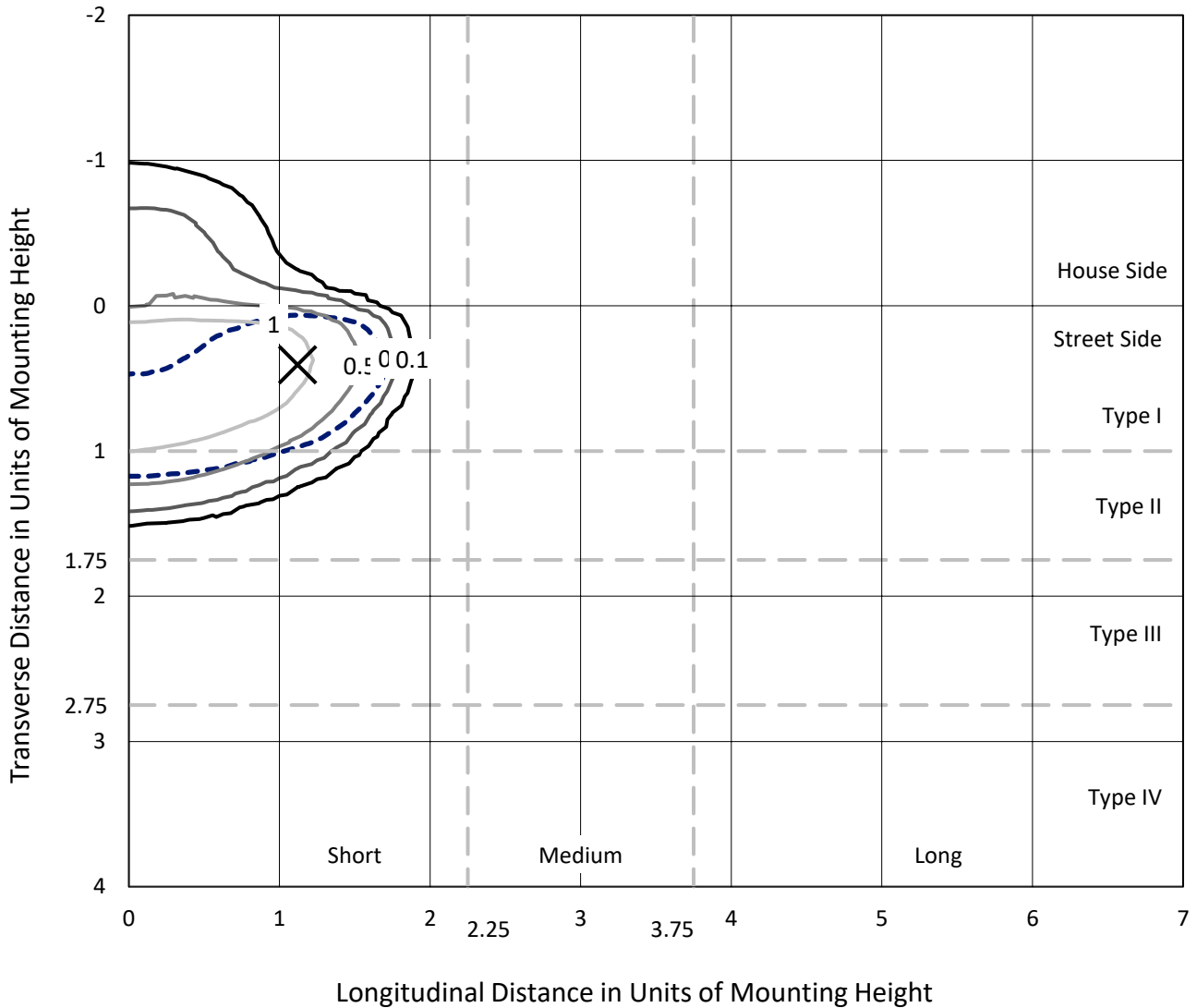
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

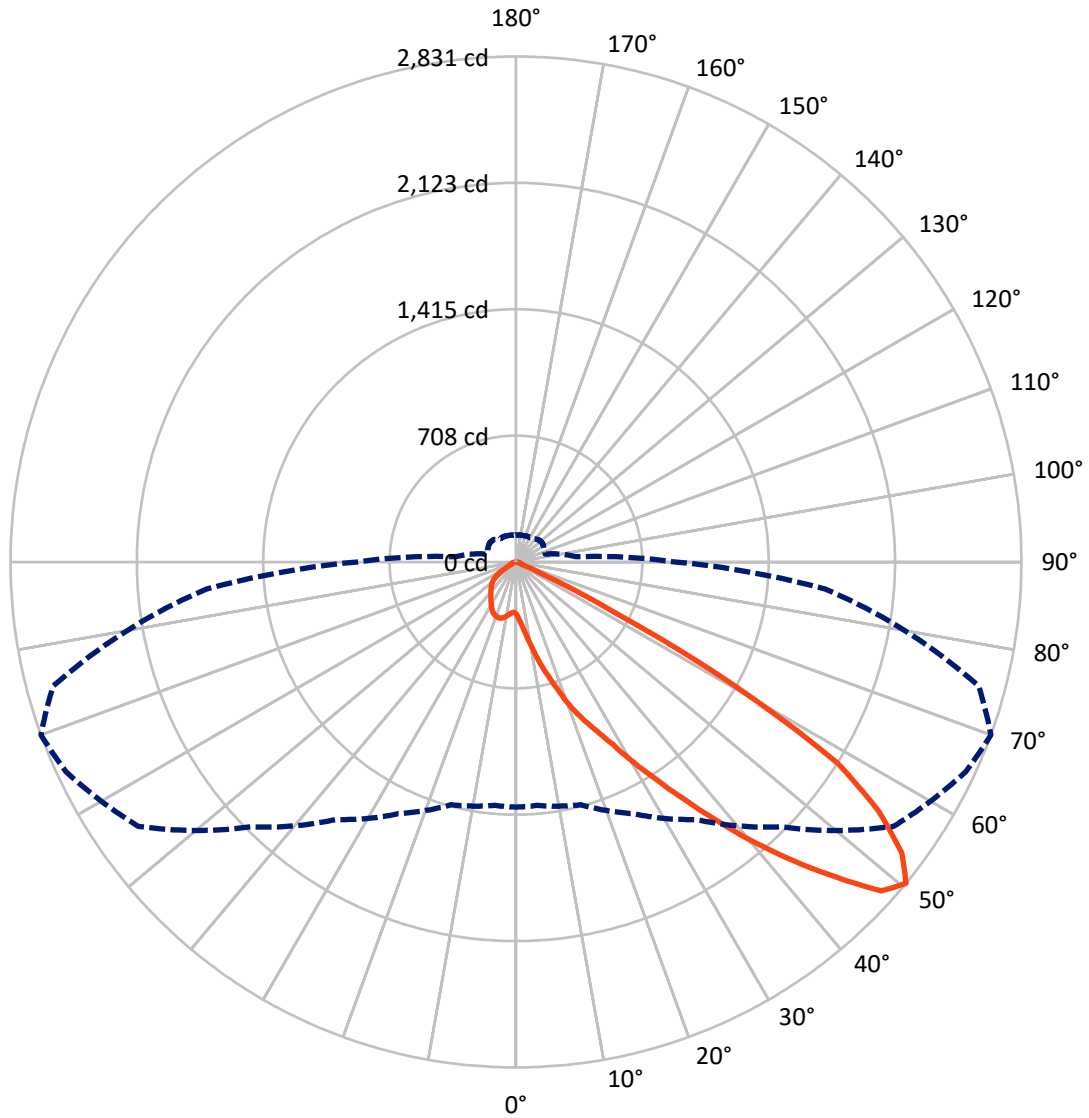
✕ Max cd
 - - - 1/2 Max cd



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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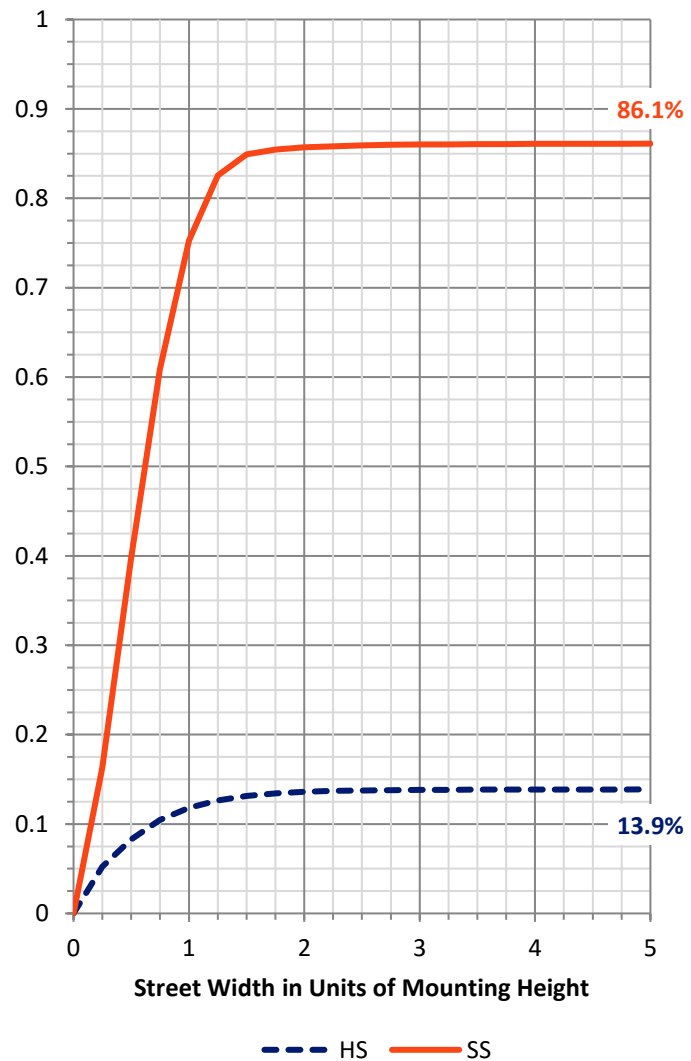
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.0	0.0	391.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2409.0	0.0	2409.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	2800.0	0.0	2800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	1.3
10°-20°	163.1	5.8
20°-30°	342.2	12.2
30°-40°	589.9	21.1
40°-50°	862.1	30.8
50°-60°	671.5	24.0
60°-70°	113.8	4.1
70°-80°	15.6	0.6
80°-90°	4.1	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°	2800.0	100.0
0°-180°	2800.0	100.0

Coefficient of Utilization



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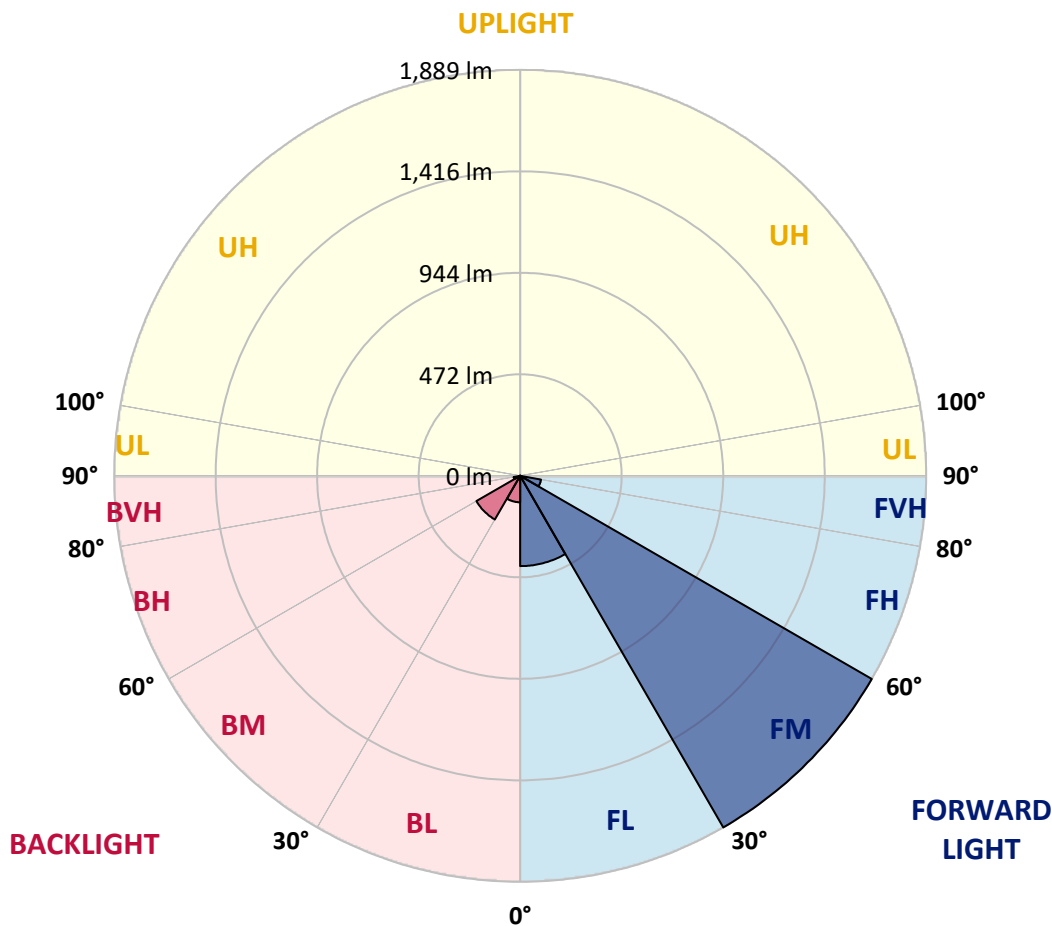
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.0	15.0			
FM (30°-60°)	1888.5	67.4			
FH (60°-80°)	98.5	3.5			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	123.1	4.4	B1/500		
BM (30°-60°)	234.9	8.4	B1/1000		
BH (60°-80°)	30.9	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°	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0
2.5°	379.8	377.0	371.0	360.0	355.4	344.3	337.9	325.5	317.6	308.9	299.2
5°	534.9	520.7	511.9	499.5	463.1	440.6	403.3	371.5	356.8	340.7	318.6
7.5°	695.1	685.9	674.0	647.3	622.4	575.4	511.5	441.5	411.6	383.9	340.2
10°	827.7	801.9	800.6	780.8	753.6	697.4	620.6	533.6	480.2	439.6	371.0
12.5°	920.3	896.8	907.4	905.1	879.7	828.2	739.3	624.2	568.5	505.5	402.8
15°	1004.5	994.8	991.6	988.8	978.7	940.5	860.9	734.7	654.2	578.2	438.7
17.5°	1086.9	1062.0	1074.0	1076.3	1075.4	1040.9	966.3	839.7	744.9	655.1	476.5
20°	1160.1	1162.4	1146.3	1143.1	1140.3	1138.9	1066.2	943.7	856.3	735.7	525.7
22.5°	1254.0	1237.9	1252.2	1243.0	1225.0	1214.0	1158.3	1035.8	952.9	832.8	575.9
25°	1365.0	1377.8	1344.2	1340.6	1320.8	1282.6	1232.4	1138.9	1045.9	923.0	630.2
27.5°	1501.7	1479.1	1470.4	1450.1	1414.2	1398.1	1339.2	1245.3	1158.3	1017.8	682.7
30°	1619.1	1613.1	1569.4	1545.4	1514.1	1513.7	1431.2	1389.4	1304.7	1166.5	755.0
32.5°	1714.8	1688.6	1672.5	1655.9	1630.6	1637.5	1568.0	1545.9	1460.7	1304.7	840.2
35°	1778.8	1759.9	1750.3	1725.0	1717.6	1748.4	1719.4	1710.2	1640.3	1498.9	940.0
37.5°	1799.1	1805.1	1803.2	1771.5	1787.1	1870.4	1907.7	1883.8	1847.0	1703.8	1048.2
40°	1817.0	1821.2	1812.0	1849.3	1893.9	1988.7	2123.6	2084.0	2070.2	1911.4	1198.8
42.5°	1827.2	1823.9	1823.9	1888.4	1956.1	2146.6	2332.2	2305.9	2295.3	2132.4	1372.8
45°	1783.4	1752.1	1785.7	1873.2	2009.5	2224.4	2498.8	2535.2	2520.0	2395.2	1576.3
47.5°	1620.0	1639.3	1658.2	1775.1	1944.5	2200.5	2601.0	2724.9	2752.9	2616.2	1709.8
50°	1372.8	1368.6	1407.8	1555.1	1760.9	2097.4	2581.2	2779.6	2830.7	2682.5	1737.8
52.5°	998.5	1028.9	1071.3	1217.6	1461.6	1830.4	2325.7	2638.3	2706.4	2601.0	1719.4
55°	581.4	547.8	643.1	767.0	997.1	1380.6	1966.2	2338.6	2464.8	2452.8	1626.4
57.5°	232.9	225.6	258.3	348.0	520.2	855.8	1429.9	1921.5	2123.6	2246.5	1429.4
60°	102.2	99.9	117.4	141.8	212.7	394.5	782.1	1195.1	1405.9	1569.8	983.8
62.5°	73.7	72.7	81.5	90.2	112.3	171.7	328.7	481.5	600.3	725.1	440.6
65°	59.4	61.7	67.7	72.3	82.9	95.3	116.0	134.0	164.3	170.3	97.1
67.5°	48.3	50.2	55.7	60.8	62.6	51.6	53.4	47.0	47.0	41.9	33.6
70°	35.4	35.9	42.4	48.3	38.7	20.7	36.4	36.4	32.7	31.3	28.5
72.5°	26.2	26.7	31.8	29.9	15.2	12.9	26.7	29.5	26.7	25.3	23.0
75°	19.3	19.8	16.6	6.9	6.4	8.3	15.7	20.3	19.3	18.9	17.5
77.5°	3.7	2.8	2.3	3.2	4.6	6.9	10.1	12.4	12.9	13.8	12.9
80°	0.5	0.5	1.4	2.8	5.1	7.4	10.6	12.0	12.4	12.9	12.0
82.5°	0.0	0.5	1.4	2.8	5.1	6.9	9.2	10.6	11.5	12.0	11.5
85°	0.0	0.5	0.9	2.3	4.1	5.1	4.6	3.2	2.8	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°	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0	290.0
2.5°	293.7	291.9	285.4	278.5	272.5	275.3	272.5	270.2	271.2	270.2	269.3
5°	309.8	301.5	287.7	281.7	276.7	276.2	274.8	274.4	274.8	274.8	270.7
7.5°	325.0	311.7	296.9	290.5	284.5	285.0	281.7	281.7	281.3	279.0	278.1
10°	348.0	330.1	311.2	299.7	292.3	290.9	287.7	284.5	284.5	284.5	279.9
12.5°	373.3	350.8	325.0	311.7	302.9	296.0	290.9	290.0	285.0	284.0	281.7
15°	395.4	366.9	334.2	315.8	304.8	295.5	287.7	282.7	280.4	279.0	277.1
17.5°	417.1	380.7	339.3	315.8	303.8	293.2	285.0	280.4	274.8	275.8	272.1
20°	446.1	395.4	340.7	309.8	295.1	285.0	273.9	271.6	268.4	265.6	266.5
22.5°	474.2	406.0	336.5	302.5	281.3	269.3	263.8	261.0	259.6	257.3	254.1
25°	499.5	417.5	330.1	289.1	266.5	257.8	252.7	252.3	249.1	249.1	243.1
27.5°	525.3	421.7	319.0	273.5	253.7	248.6	246.3	245.4	244.0	240.8	236.6
30°	554.7	423.1	302.9	257.3	242.1	236.6	239.8	242.1	236.2	230.2	232.0
32.5°	579.1	419.8	283.6	242.1	233.9	231.1	237.5	239.8	232.9	226.5	223.3
35°	608.6	412.0	264.7	230.2	225.6	231.1	236.6	236.6	222.8	215.0	213.1
37.5°	653.2	403.3	247.2	220.1	216.8	228.3	235.7	230.6	209.0	199.3	197.0
40°	701.1	397.7	230.2	209.9	212.2	223.7	227.9	212.2	190.1	184.1	182.3
42.5°	770.6	386.7	215.0	201.2	208.1	217.3	217.3	189.2	180.9	177.7	177.2
45°	857.2	378.9	201.6	193.8	202.1	204.4	197.0	177.2	171.3	170.3	170.8
47.5°	899.5	363.7	187.8	185.1	191.0	191.5	172.2	167.6	162.5	161.1	160.2
50°	893.1	336.5	169.9	173.6	181.8	177.2	157.0	157.9	153.3	152.8	150.5
52.5°	848.0	293.7	151.9	160.7	169.9	156.5	144.6	143.6	143.6	137.6	135.3
55°	751.8	236.6	130.3	141.3	152.4	131.7	128.4	127.5	125.2	119.7	118.3
57.5°	595.2	173.6	98.1	110.0	129.4	111.9	111.4	107.3	101.3	97.1	97.1
60°	354.0	99.9	61.7	67.2	85.6	90.7	100.8	99.0	88.8	82.4	80.6
62.5°	161.6	51.6	39.1	40.1	46.0	58.9	79.2	91.6	77.3	66.3	65.4
65°	54.3	38.2	32.2	30.8	31.8	35.4	47.4	64.9	61.7	51.1	49.3
67.5°	33.1	34.1	30.4	28.1	28.1	27.6	27.2	29.5	36.4	35.4	35.9
70°	28.5	31.3	28.1	25.3	24.4	23.0	19.3	16.1	13.8	16.1	17.0
72.5°	23.0	24.9	23.9	21.6	19.3	17.5	13.8	10.6	7.8	6.9	6.9
75°	17.0	18.4	19.3	16.6	14.7	12.4	10.1	6.9	4.1	2.8	2.8
77.5°	12.4	13.8	14.3	12.9	11.0	8.7	6.4	4.6	2.3	0.9	0.9
80°	10.6	12.4	13.8	12.9	11.5	8.3	6.0	3.2	1.8	0.5	0.5
82.5°	10.1	12.4	13.8	12.4	11.0	7.8	6.0	3.7	1.4	0.5	0.5
85°	2.3	3.2	4.1	5.1	6.0	6.0	4.6	2.8	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)