

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: P595097

Luminaire Tested: **IST-PA1B-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-830-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2953 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

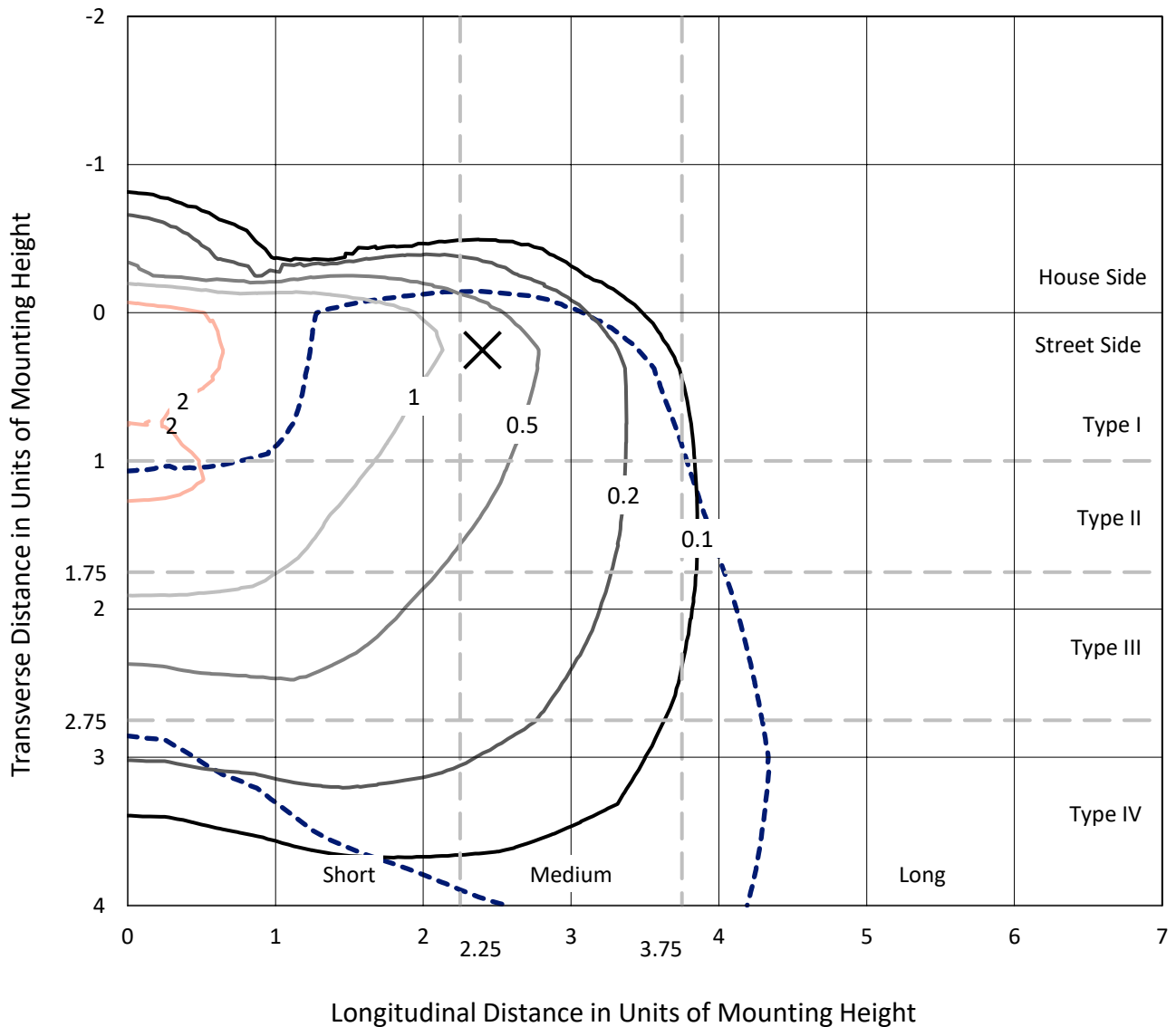
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

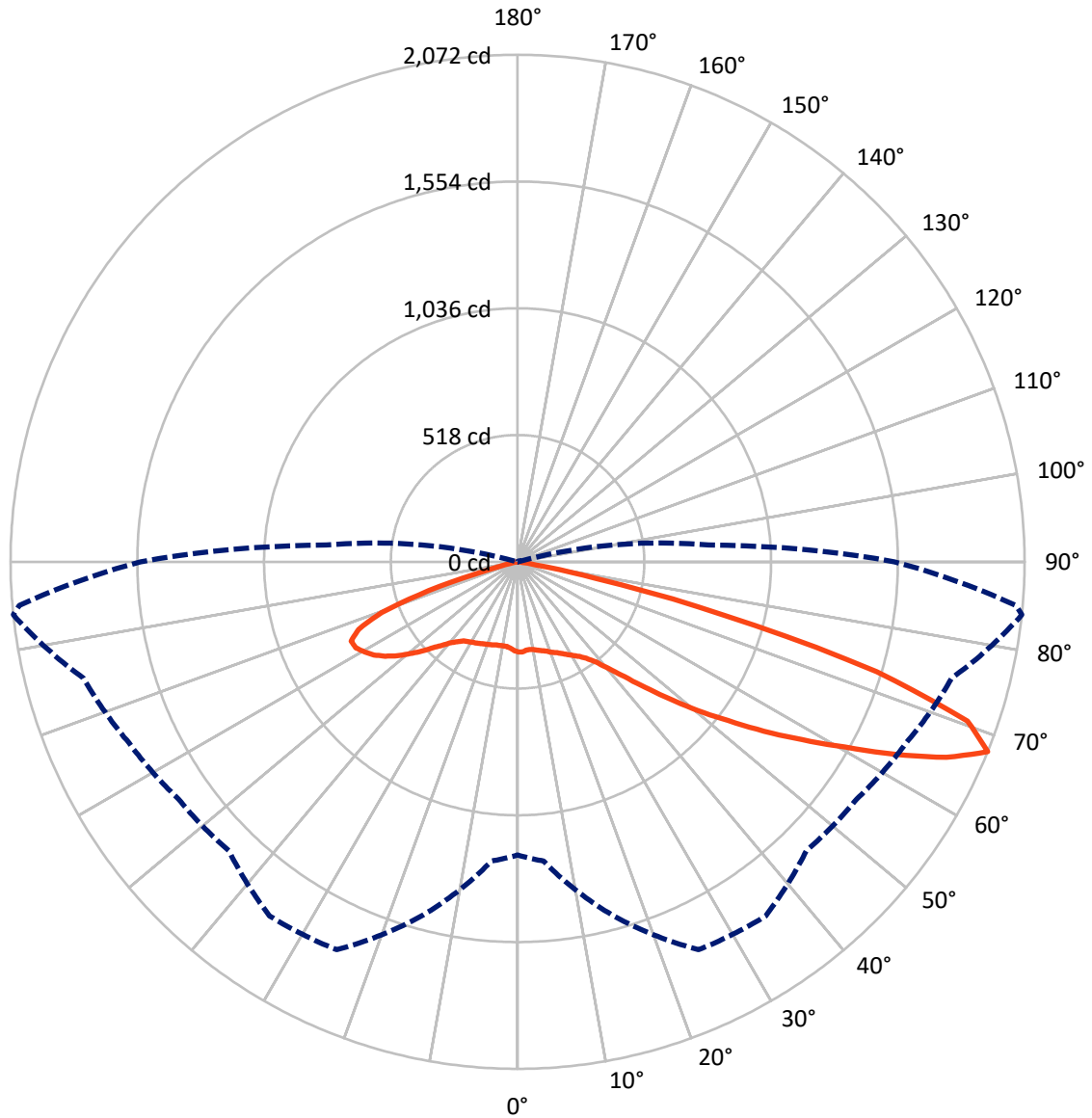
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: IST-PA1B-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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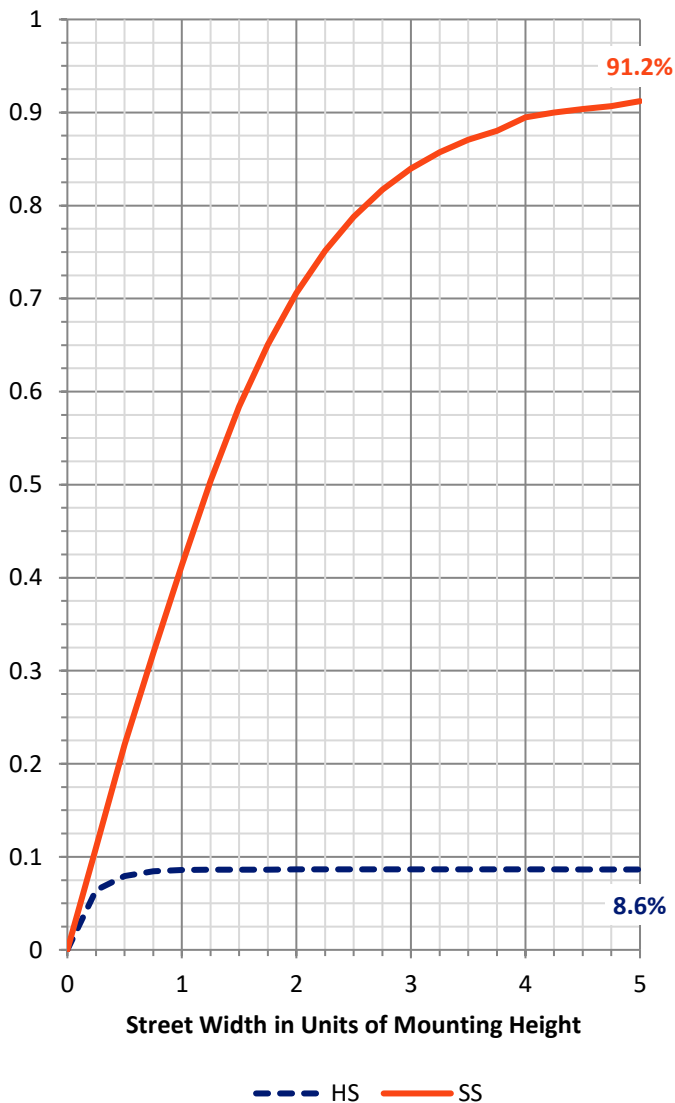
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.1	0.0	257.1
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2695.9	0.0	2695.9
	% Fixture	91.3	0.0	91.3
Total	Lumens	2953.0	0.0	2953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.1
10°-20°	86.3	2.9
20°-30°	138.2	4.7
30°-40°	198.9	6.7
40°-50°	341.3	11.6
50°-60°	596.4	20.2
60°-70°	854.0	28.9
70°-80°	641.9	21.7
80°-90°	63.0	2.1
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°	2953.0	100.0
0°-180°	2953.0	100.0

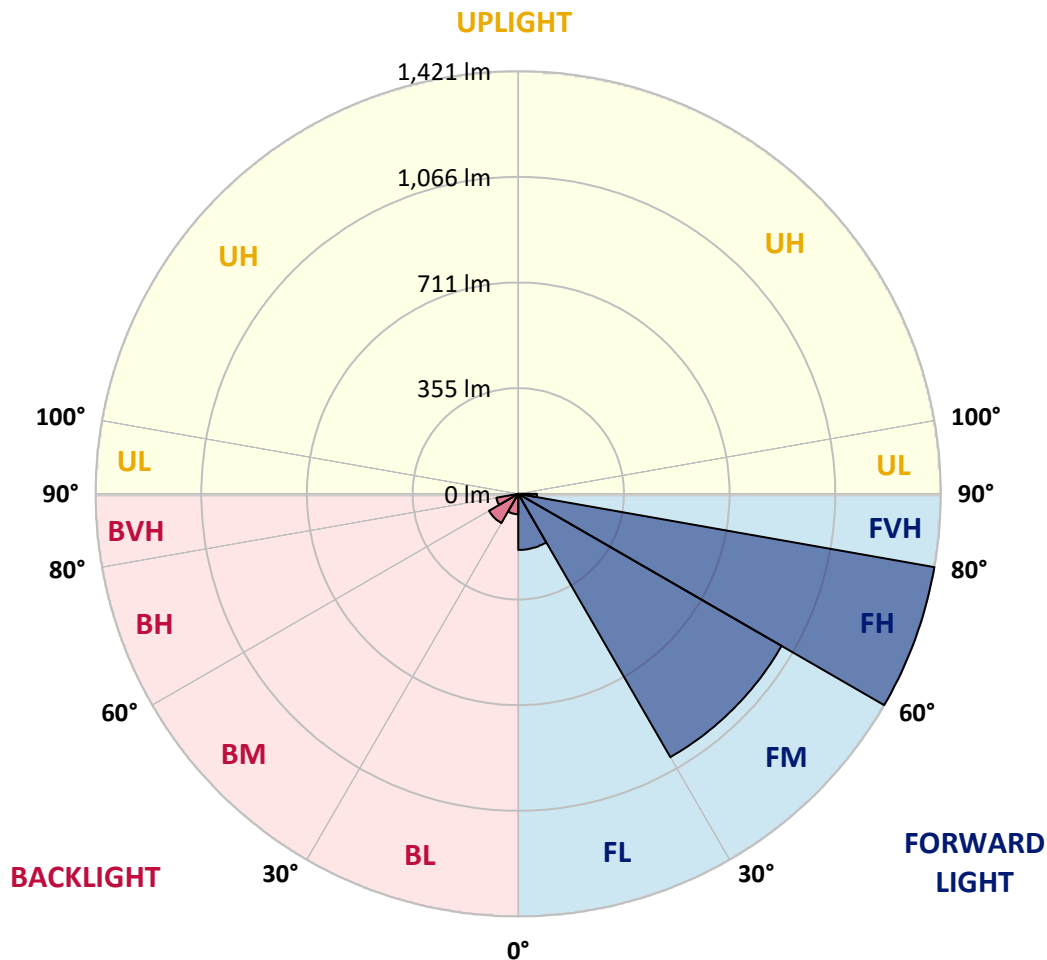


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.8	6.4			
FM (30°-60°)	1022.9	34.6			
FH (60°-80°)	1421.4	48.1			G1/1800
FVH (80°-90°)	62.8	2.1			G1/100
BL (0°-30°)	68.7	2.3	B0/110		
BM (30°-60°)	113.7	3.9	B0/220		
BH (60°-80°)	74.5	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
2.5°	388.8	390.8	391.8	386.9	386.9	382.9	376.9	374.9	371.9	368.9	367.9
5°	408.8	411.8	410.8	404.8	401.8	393.8	385.9	377.9	369.9	362.9	362.9
7.5°	431.7	432.7	429.7	419.8	413.8	402.8	390.8	381.9	371.9	361.9	359.9
10°	451.7	450.7	446.7	436.7	425.7	411.8	398.8	388.8	376.9	364.9	363.9
12.5°	465.6	466.6	461.6	447.7	436.7	420.8	407.8	397.8	383.9	370.9	367.9
15°	477.6	480.6	474.6	460.6	444.7	430.7	420.8	407.8	391.8	376.9	374.9
17.5°	488.6	489.5	484.6	468.6	453.7	441.7	430.7	418.8	402.8	383.9	381.9
20°	494.5	497.5	494.5	474.6	460.6	451.7	442.7	430.7	412.8	394.8	392.8
22.5°	498.5	501.5	500.5	478.6	466.6	459.6	451.7	440.7	423.7	402.8	400.8
25°	500.5	502.5	504.5	482.6	472.6	469.6	462.6	452.7	436.7	414.8	412.8
27.5°	503.5	505.5	507.5	487.6	483.6	480.6	478.6	470.6	451.7	428.7	425.7
30°	508.5	511.5	513.5	496.5	496.5	499.5	499.5	488.6	467.6	443.7	441.7
32.5°	514.5	515.5	519.5	505.5	510.5	517.5	515.5	504.5	482.6	460.6	457.6
35°	530.4	530.4	537.4	519.5	525.4	531.4	533.4	525.4	505.5	483.6	482.6
37.5°	569.3	569.3	575.3	546.4	545.4	551.4	558.3	558.3	538.4	518.5	516.5
40°	657.1	657.1	657.1	590.2	579.3	586.3	597.2	603.2	586.3	572.3	572.3
42.5°	803.6	804.6	789.7	671.0	624.1	636.1	648.1	661.0	652.1	642.1	640.1
45°	955.2	950.2	948.2	789.7	703.9	697.9	712.9	734.8	737.8	731.8	735.8
47.5°	1058.9	1063.8	1066.8	937.2	815.6	774.7	788.7	819.6	837.5	836.5	842.5
50°	1159.6	1162.6	1165.5	1099.7	963.1	871.4	880.4	922.3	947.2	955.2	959.2
52.5°	1247.3	1239.3	1252.3	1243.3	1119.7	982.1	982.1	1029.9	1074.8	1077.8	1076.8
55°	1273.2	1278.2	1317.1	1344.0	1280.2	1117.7	1097.7	1148.6	1196.4	1221.4	1221.4
57.5°	1331.1	1336.0	1382.9	1443.7	1396.9	1251.3	1221.4	1271.2	1323.1	1370.9	1377.9
60°	1406.8	1407.8	1457.7	1550.4	1485.6	1371.9	1347.0	1403.8	1455.7	1537.4	1560.4
62.5°	1447.7	1451.7	1520.5	1642.1	1597.3	1477.6	1471.6	1523.5	1590.3	1733.9	1754.8
65°	1384.9	1410.8	1560.4	1697.0	1688.0	1576.3	1597.3	1639.1	1715.9	1926.3	1946.2
67.5°	1198.4	1227.4	1494.6	1748.8	1766.8	1669.0	1691.0	1751.8	1836.5	2071.9	2043.9
70°	1103.7	1127.7	1335.0	1777.7	1832.6	1772.7	1782.7	1839.5	1864.5	1950.2	1920.3
72.5°	836.5	861.4	1129.6	1679.0	1889.4	1881.4	1856.5	1809.6	1662.1	1534.4	1461.7
75°	369.9	398.8	751.8	1312.1	1748.8	1943.2	1811.6	1549.4	1193.5	871.4	807.6
77.5°	163.5	180.5	291.1	728.8	1314.1	1682.0	1432.7	1032.9	599.2	324.0	301.1
80°	52.8	54.8	91.7	255.2	672.0	1113.7	877.4	496.5	184.5	75.8	70.8
82.5°	20.9	22.9	43.9	107.7	278.2	442.7	430.7	179.5	53.8	19.9	19.9
85°	6.0	7.0	21.9	56.8	98.7	124.6	152.5	59.8	28.9	6.0	6.0
87.5°	2.0	2.0	8.0	17.9	18.9	13.0	28.9	22.9	17.9	2.0	2.0
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°	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
2.5°	365.9	363.9	358.9	354.9	353.0	350.0	346.0	344.0	344.0	343.0	340.0
5°	358.9	355.9	347.0	341.0	336.0	325.0	317.1	307.1	297.1	294.1	297.1
7.5°	355.9	350.0	338.0	326.0	305.1	276.2	257.2	236.3	229.3	220.3	221.3
10°	356.9	350.0	333.0	306.1	265.2	222.3	192.4	164.5	150.6	143.6	144.6
12.5°	359.9	352.0	328.0	279.2	220.3	168.5	122.6	100.7	96.7	96.7	96.7
15°	365.9	353.9	320.1	247.3	172.5	111.7	86.7	84.7	87.7	90.7	91.7
17.5°	371.9	359.9	308.1	214.4	125.6	83.8	80.8	80.8	83.8	86.7	87.7
20°	378.9	365.9	291.1	179.5	89.7	78.8	77.8	76.8	78.8	81.8	82.8
22.5°	389.8	371.9	271.2	138.6	77.8	75.8	73.8	72.8	73.8	76.8	77.8
25°	399.8	379.9	250.3	102.7	72.8	70.8	69.8	68.8	68.8	70.8	71.8
27.5°	411.8	388.8	227.3	76.8	66.8	65.8	64.8	63.8	62.8	64.8	65.8
30°	426.7	396.8	202.4	64.8	60.8	59.8	58.8	57.8	56.8	57.8	58.8
32.5°	445.7	407.8	173.5	58.8	55.8	52.8	51.8	51.8	50.8	50.8	51.8
35°	470.6	419.8	142.6	54.8	50.8	47.9	44.9	43.9	43.9	43.9	44.9
37.5°	507.5	441.7	112.7	50.8	46.9	41.9	38.9	35.9	35.9	35.9	35.9
40°	558.3	465.6	87.7	47.9	43.9	36.9	32.9	28.9	26.9	25.9	26.9
42.5°	637.1	501.5	67.8	43.9	41.9	32.9	26.9	21.9	17.9	16.9	17.9
45°	723.9	540.4	53.8	40.9	37.9	27.9	20.9	15.0	11.0	10.0	11.0
47.5°	833.5	589.3	45.9	36.9	32.9	22.9	15.0	8.0	5.0	6.0	6.0
50°	939.2	637.1	41.9	33.9	28.9	18.9	9.0	4.0	2.0	3.0	3.0
52.5°	1055.9	688.0	38.9	29.9	24.9	14.0	5.0	1.0	0.0	1.0	1.0
55°	1173.5	733.8	35.9	26.9	19.9	10.0	2.0	0.0	0.0	0.0	1.0
57.5°	1301.1	772.7	32.9	22.9	15.0	6.0	1.0	0.0	0.0	0.0	0.0
60°	1407.8	802.6	29.9	19.9	10.0	3.0	0.0	0.0	0.0	0.0	0.0
62.5°	1505.5	829.5	22.9	15.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	1570.3	835.5	16.0	10.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1541.4	783.7	10.0	7.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1355.0	658.0	7.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	948.2	424.7	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	500.5	153.5	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	177.5	33.9	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	38.9	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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)