

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: INVUE

Report Number: P677062

Luminaire Tested: **CCW-SA-1C-840-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677062
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

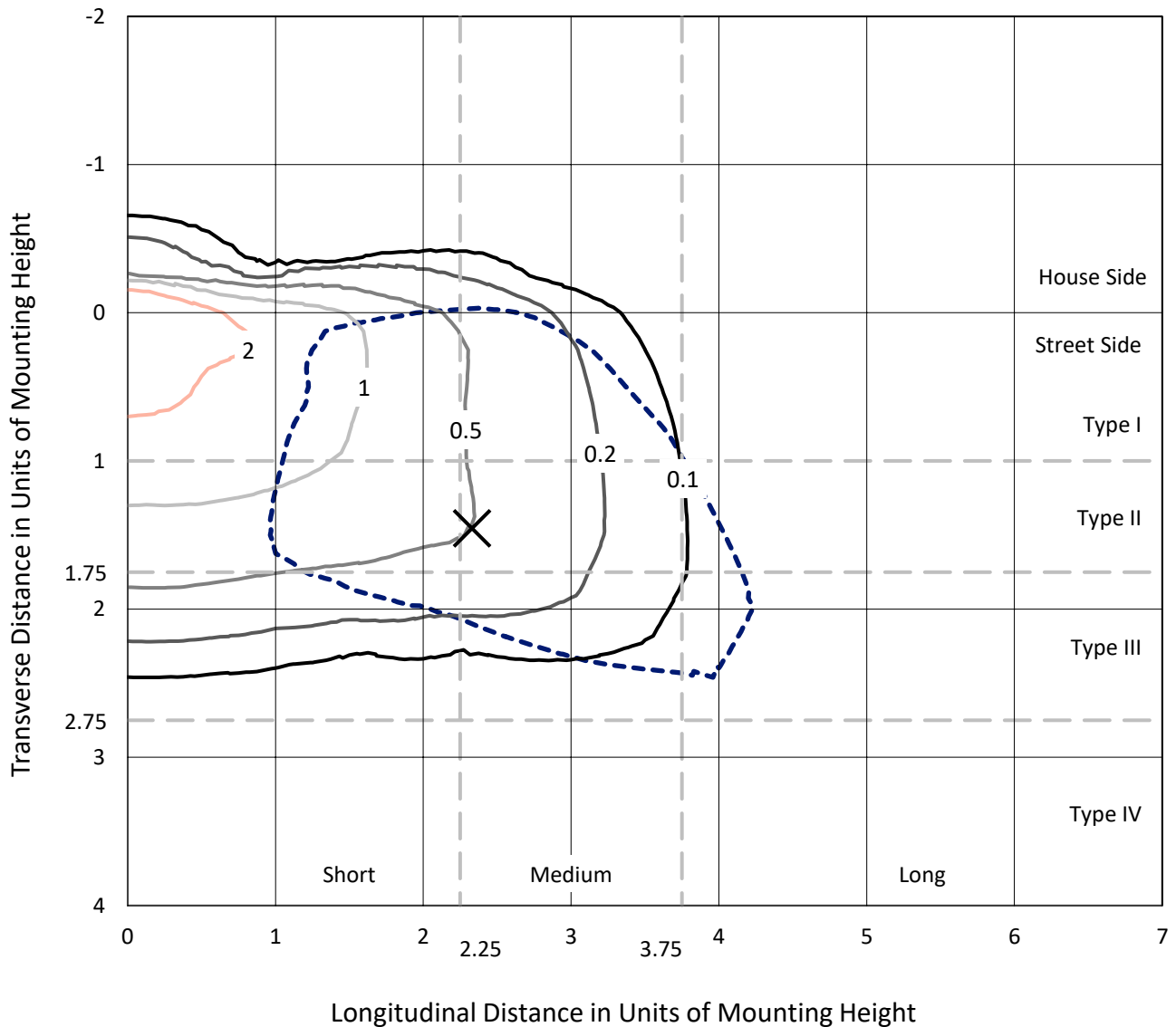
Lumens per Lamp: N/A
Luminaire Lumens: 3185.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

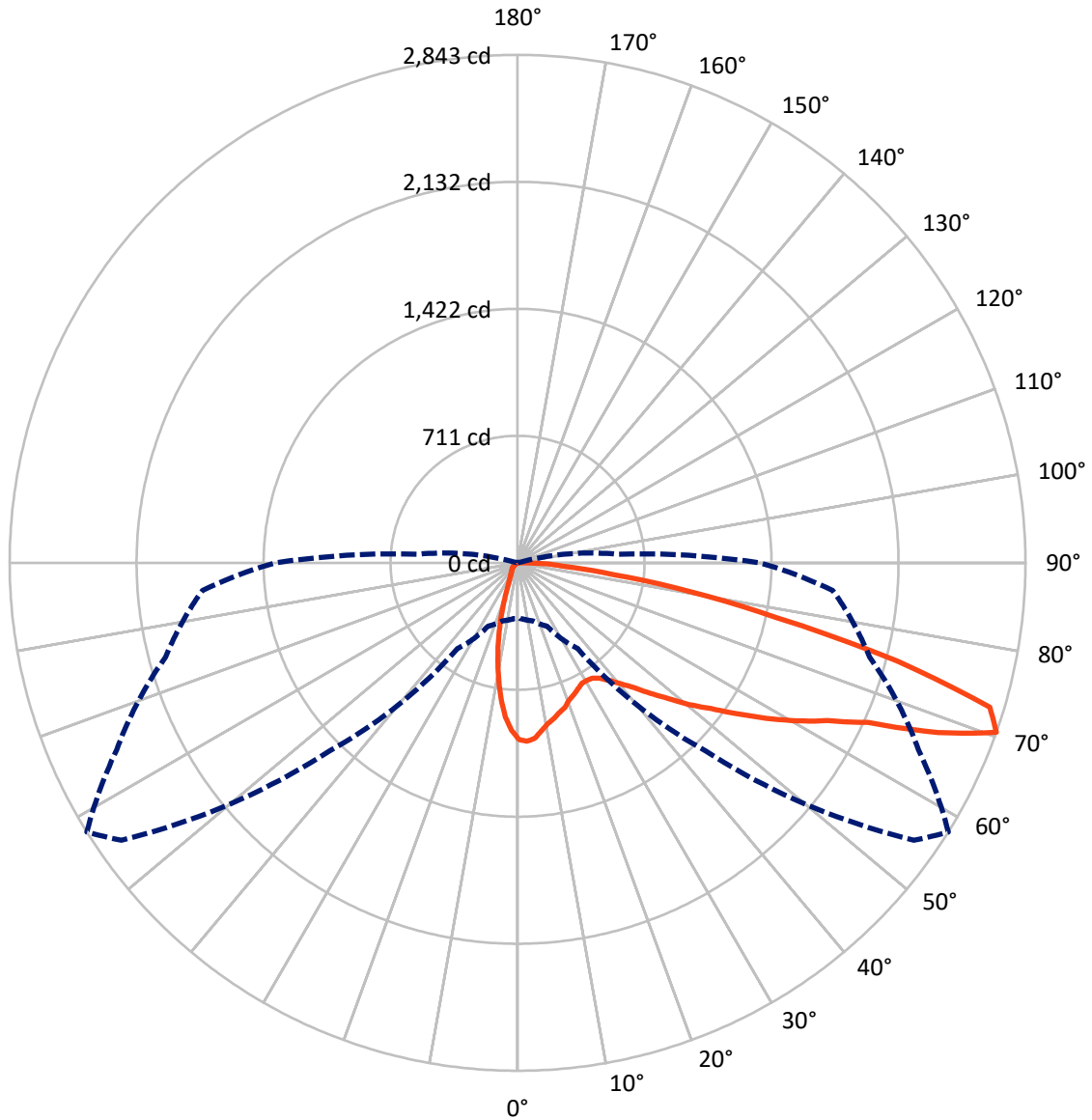
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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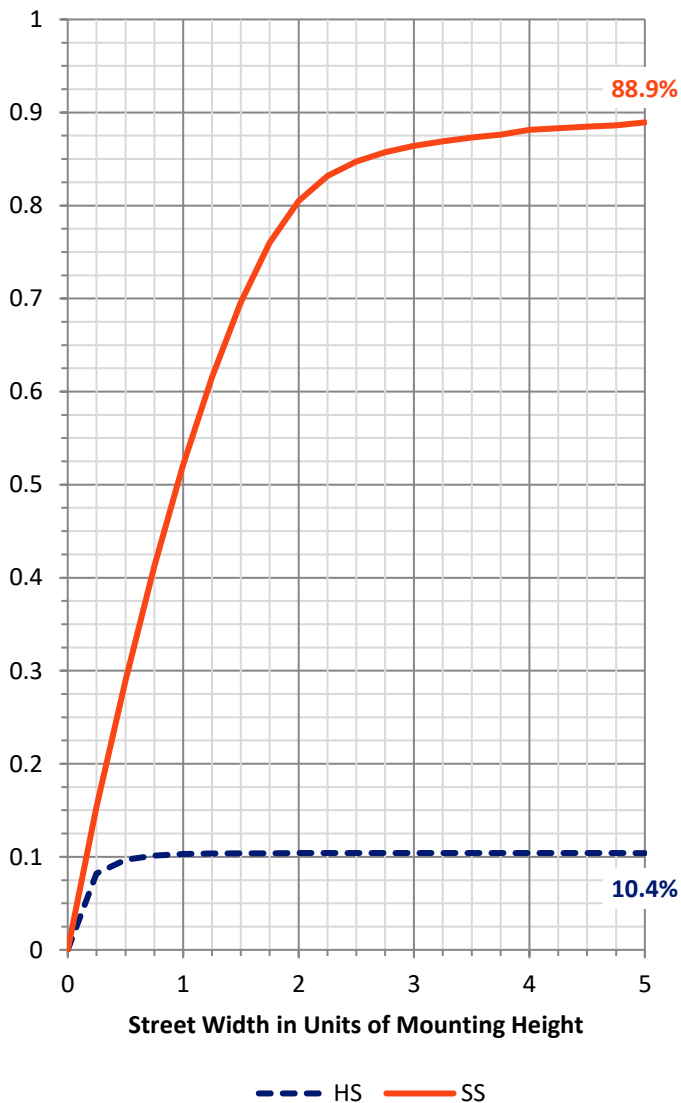
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.6	0.0	333.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2851.9	0.0	2851.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	3185.4	0.0	3185.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	2.5
10°-20°	168.0	5.3
20°-30°	224.9	7.1
30°-40°	304.0	9.5
40°-50°	436.4	13.7
50°-60°	643.1	20.2
60°-70°	784.4	24.6
70°-80°	479.0	15.0
80°-90°	65.1	2.0
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°	3185.4	100.0
0°-180°	3185.4	100.0

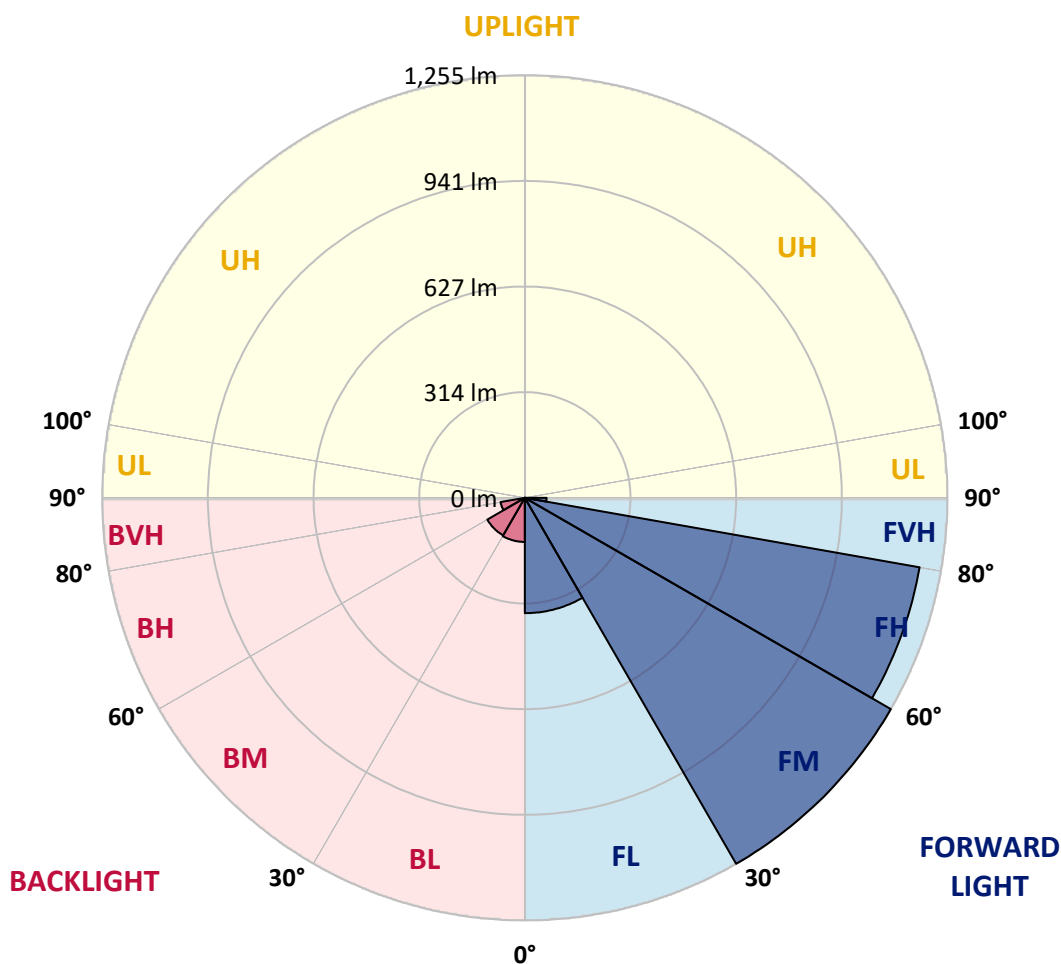


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.5	10.8			
FM (30°-60°)	1254.7	39.4			
FH (60°-80°)	1190.2	37.4			G1/1800
FVH (80°-90°)	64.4	2.0			G1/100
BL (0°-30°)	131.1	4.1	B1/500		
BM (30°-60°)	128.7	4.0	B0/220		
BH (60°-80°)	73.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9
2.5°	1006.8	1010.5	1001.5	1012.0	1002.3	1006.8	1001.5	1000.1	1000.8	1001.5	995.6
5°	959.7	968.7	972.4	966.4	980.6	978.4	987.4	988.1	984.4	980.6	981.4
7.5°	897.7	906.7	910.4	914.2	928.4	947.0	959.0	951.5	957.5	970.9	950.8
10°	852.9	850.7	849.9	857.4	884.3	900.0	920.1	917.9	932.8	945.5	929.1
12.5°	797.7	793.2	806.6	812.6	836.5	864.1	879.8	896.2	911.2	924.6	905.9
15°	756.6	760.3	765.5	778.2	795.4	832.0	855.2	870.8	897.7	904.5	897.0
17.5°	723.7	726.7	734.2	740.9	762.6	797.7	834.2	852.9	881.3	899.2	876.1
20°	724.5	715.5	715.5	722.2	734.2	776.0	814.8	820.8	859.6	890.3	874.6
22.5°	725.2	722.2	715.5	714.8	720.0	749.9	789.4	802.9	844.7	880.6	861.9
25°	735.7	724.5	725.2	714.8	717.0	731.9	763.3	783.5	831.3	885.8	855.2
27.5°	744.6	749.9	739.4	734.9	722.2	721.5	747.6	764.8	824.5	897.7	859.6
30°	764.8	768.5	768.5	765.5	753.6	736.4	742.4	764.0	811.1	895.5	852.2
32.5°	798.4	791.7	800.6	796.2	780.5	753.6	758.8	770.0	819.3	923.9	864.1
35°	809.6	814.8	826.8	817.1	811.8	796.2	785.7	793.9	831.3	952.3	882.0
37.5°	844.0	836.5	844.7	866.4	871.6	843.2	823.0	835.0	876.1	985.9	898.5
40°	846.9	852.9	867.9	910.4	915.7	903.7	887.3	890.3	920.9	1029.2	939.6
42.5°	861.9	868.6	899.2	935.1	963.5	965.7	953.7	953.7	979.9	1098.6	985.1
45°	891.0	879.8	919.4	979.9	1021.0	1029.2	1044.9	1041.1	1062.0	1171.8	1070.3
47.5°	902.2	905.9	949.3	1022.5	1069.5	1107.6	1133.7	1134.5	1144.9	1265.2	1180.8
50°	938.8	938.1	990.3	1058.3	1127.8	1197.2	1248.0	1248.0	1247.3	1356.3	1275.6
52.5°	987.4	985.9	1026.2	1106.9	1197.2	1284.6	1351.8	1354.1	1371.2	1468.3	1384.7
55°	1066.5	1059.8	1098.6	1158.4	1266.7	1372.7	1489.3	1490.0	1476.6	1548.3	1463.1
57.5°	1133.0	1132.2	1164.4	1221.9	1344.4	1486.3	1621.4	1641.6	1599.0	1630.4	1525.8
60°	1115.8	1125.5	1192.0	1277.1	1426.5	1628.2	1764.1	1795.5	1727.5	1686.4	1572.9
62.5°	1009.0	1031.4	1103.9	1239.8	1496.0	1834.3	1960.5	1946.3	1794.7	1734.2	1630.4
65°	726.0	748.4	838.0	1041.9	1415.3	1979.9	2218.9	2154.7	1914.2	1805.2	1707.3
67.5°	427.2	436.2	492.2	664.7	1058.3	1900.8	2532.6	2537.9	2149.5	1914.2	1840.3
70°	308.5	315.2	336.8	392.1	586.3	1490.0	2707.4	2843.3	2475.9	2039.7	1770.1
72.5°	236.8	236.8	273.4	326.4	373.4	892.5	2491.5	2764.2	2546.8	1919.4	1426.5
75°	170.3	174.8	214.4	280.8	344.3	448.1	1835.8	2193.5	2158.4	1555.7	996.3
77.5°	97.8	100.1	150.9	235.3	323.4	307.7	1134.5	1487.0	1528.8	973.9	431.7
80°	50.0	51.5	84.4	186.0	292.8	268.1	676.7	979.1	830.5	283.1	100.1
82.5°	24.6	24.6	38.1	118.8	248.7	237.5	398.1	540.7	294.3	65.0	41.8
85°	8.2	9.0	17.2	67.2	180.0	143.4	243.5	256.9	98.6	24.6	23.2
87.5°	2.2	3.0	4.5	24.6	78.4	94.1	144.9	164.3	40.3	9.7	11.2
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°	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9
2.5°	973.2	967.9	962.0	947.0	935.1	919.4	908.9	900.7	885.0	888.0	881.3
5°	963.5	953.7	919.4	886.5	856.7	811.1	779.7	759.6	743.1	726.7	738.7
7.5°	946.3	923.1	869.4	808.1	744.6	684.9	625.1	589.3	563.1	539.2	538.5
10°	917.2	879.8	795.4	715.5	617.7	539.2	463.1	403.3	364.5	336.1	335.3
12.5°	884.3	845.5	739.4	609.4	496.7	386.1	295.0	231.5	194.9	172.5	169.5
15°	863.4	806.6	669.2	515.3	375.7	251.7	163.6	124.0	109.8	104.6	104.6
17.5°	836.5	771.5	599.7	417.5	260.7	145.6	106.1	95.6	94.9	93.4	91.9
20°	825.3	744.6	537.7	333.1	165.1	103.1	91.1	88.9	88.9	87.4	85.9
22.5°	795.4	705.8	472.0	244.2	109.8	90.4	85.9	82.9	81.4	79.9	81.4
25°	782.0	678.2	410.0	168.8	89.6	80.7	78.4	75.4	73.2	72.4	72.4
27.5°	773.0	650.5	349.5	117.3	79.2	73.9	69.5	67.2	64.2	61.2	61.2
30°	766.3	628.9	291.3	86.6	71.0	65.7	62.0	56.8	53.0	50.0	50.0
32.5°	757.3	603.5	233.0	73.9	64.2	59.0	52.3	47.8	42.6	40.3	40.3
35°	760.3	586.3	183.0	65.7	57.5	50.8	44.8	38.8	33.6	31.4	30.6
37.5°	766.3	573.6	138.9	59.0	51.5	44.1	37.3	30.6	27.6	24.6	24.6
40°	791.7	569.9	102.3	54.5	47.1	38.8	31.4	25.4	22.4	20.2	19.4
42.5°	834.2	575.1	79.2	49.3	42.6	32.9	26.1	20.9	17.9	15.7	14.9
45°	888.8	595.3	65.0	46.3	37.3	27.6	20.9	17.2	13.4	11.9	11.9
47.5°	967.9	626.6	56.8	42.6	32.9	23.2	17.9	13.4	10.5	9.0	9.0
50°	1057.6	662.5	50.0	38.1	28.4	19.4	14.2	10.5	7.5	6.7	6.7
52.5°	1147.2	708.0	46.3	35.1	24.6	15.7	11.2	7.5	5.2	4.5	4.5
55°	1241.3	748.4	41.8	32.9	20.2	12.7	8.2	4.5	3.0	2.2	2.2
57.5°	1307.0	764.0	36.6	28.4	15.7	9.7	6.0	3.0	1.5	0.7	0.7
60°	1354.1	766.3	31.4	23.2	11.9	7.5	3.7	1.5	0.7	0.0	0.0
62.5°	1393.7	770.8	26.9	17.9	9.0	5.2	2.2	0.7	0.0	0.0	0.0
65°	1472.1	767.0	21.7	14.2	6.0	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	1534.1	729.7	17.2	9.7	3.7	1.5	0.7	0.0	0.0	0.0	0.0
70°	1357.1	556.4	13.4	6.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	1065.8	371.2	9.0	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
75°	699.1	184.5	6.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.9	48.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.7	16.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	6.0	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.2	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	1.5	0.7	0.7	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)