

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: P675746

Luminaire Tested: **CCW-SA-1E-830-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675746
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

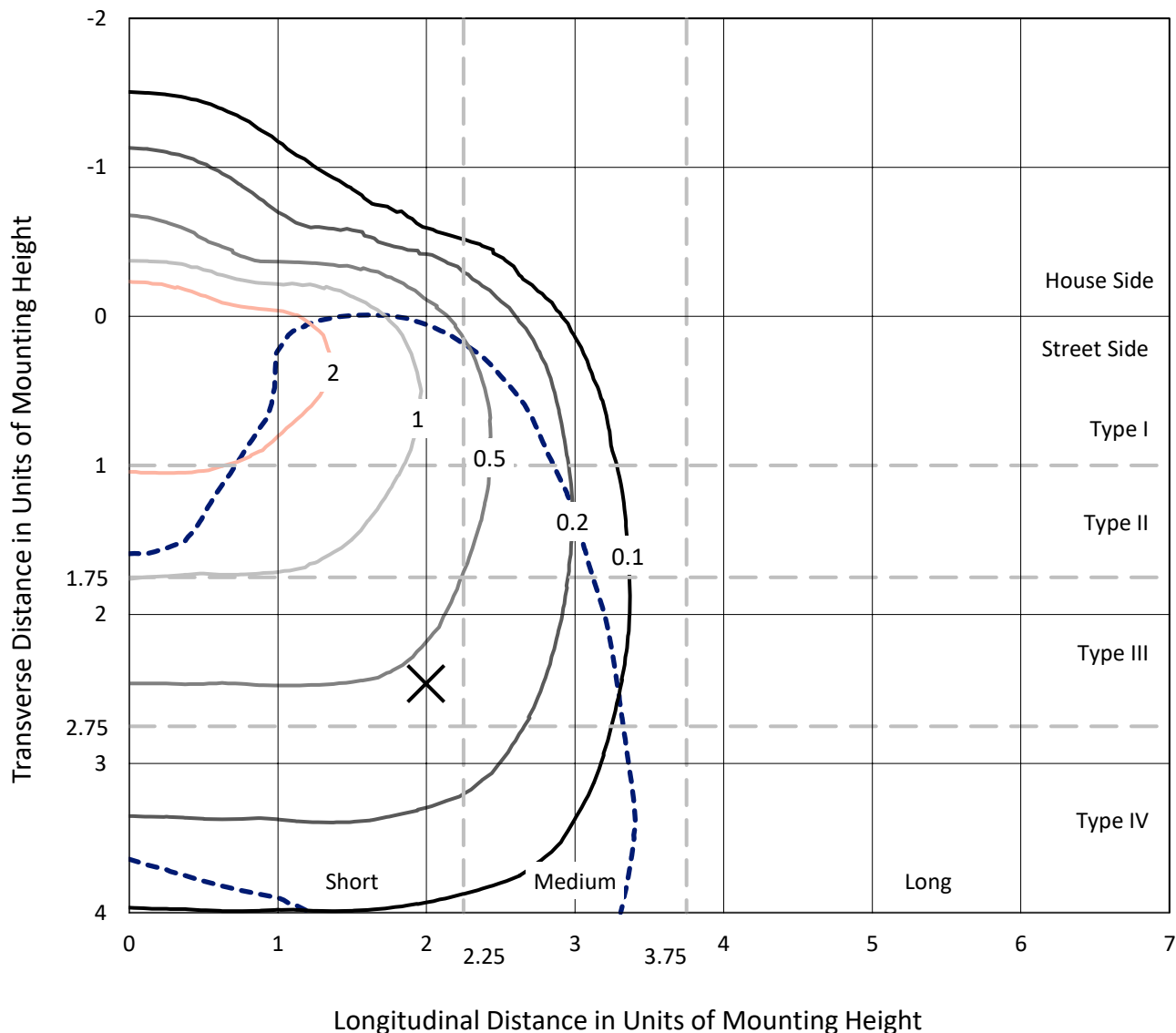
Lumens per Lamp: N/A
Luminaire Lumens: 5323.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

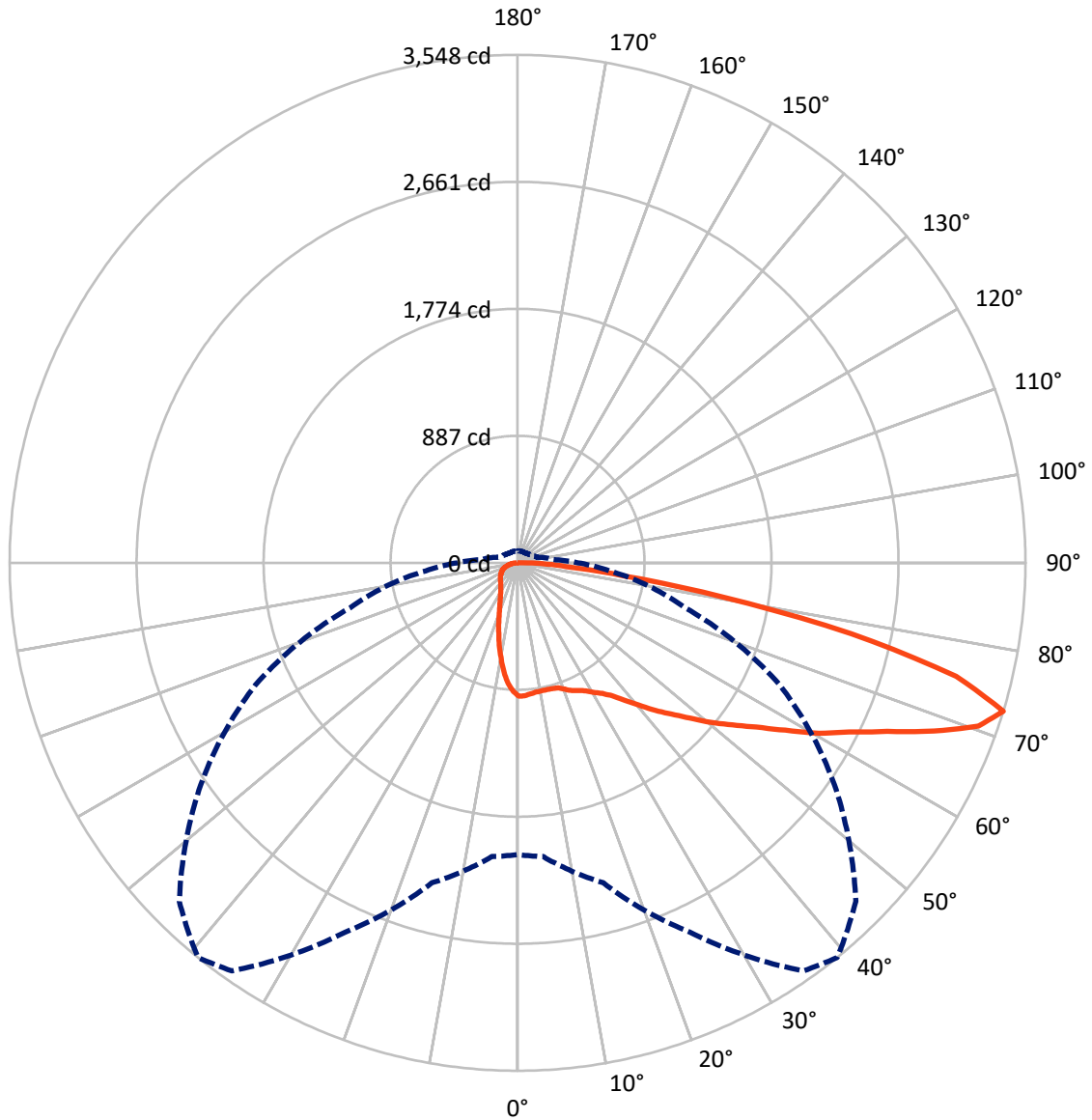
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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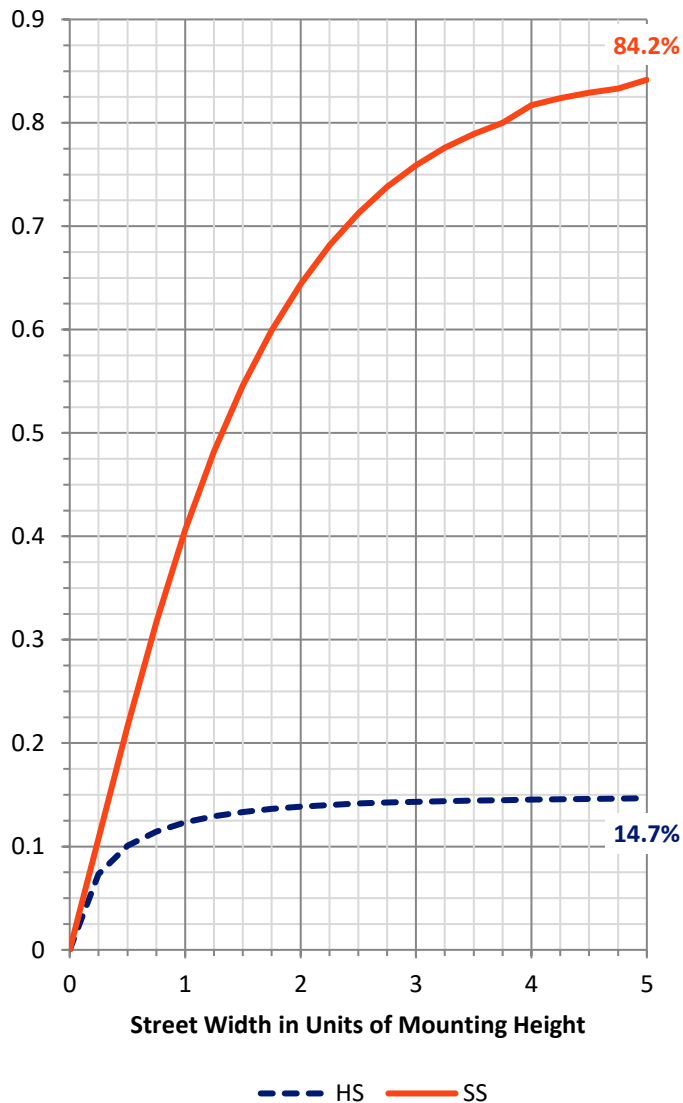
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.2	0.0	791.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4532.4	0.0	4532.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	5323.7	0.0	5323.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.5
10°-20°	210.2	3.9
20°-30°	320.2	6.0
30°-40°	468.4	8.8
40°-50°	717.1	13.5
50°-60°	1051.7	19.8
60°-70°	1341.3	25.2
70°-80°	969.1	18.2
80°-90°	163.5	3.1
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°	5323.7	100.0
0°-180°	5323.7	100.0

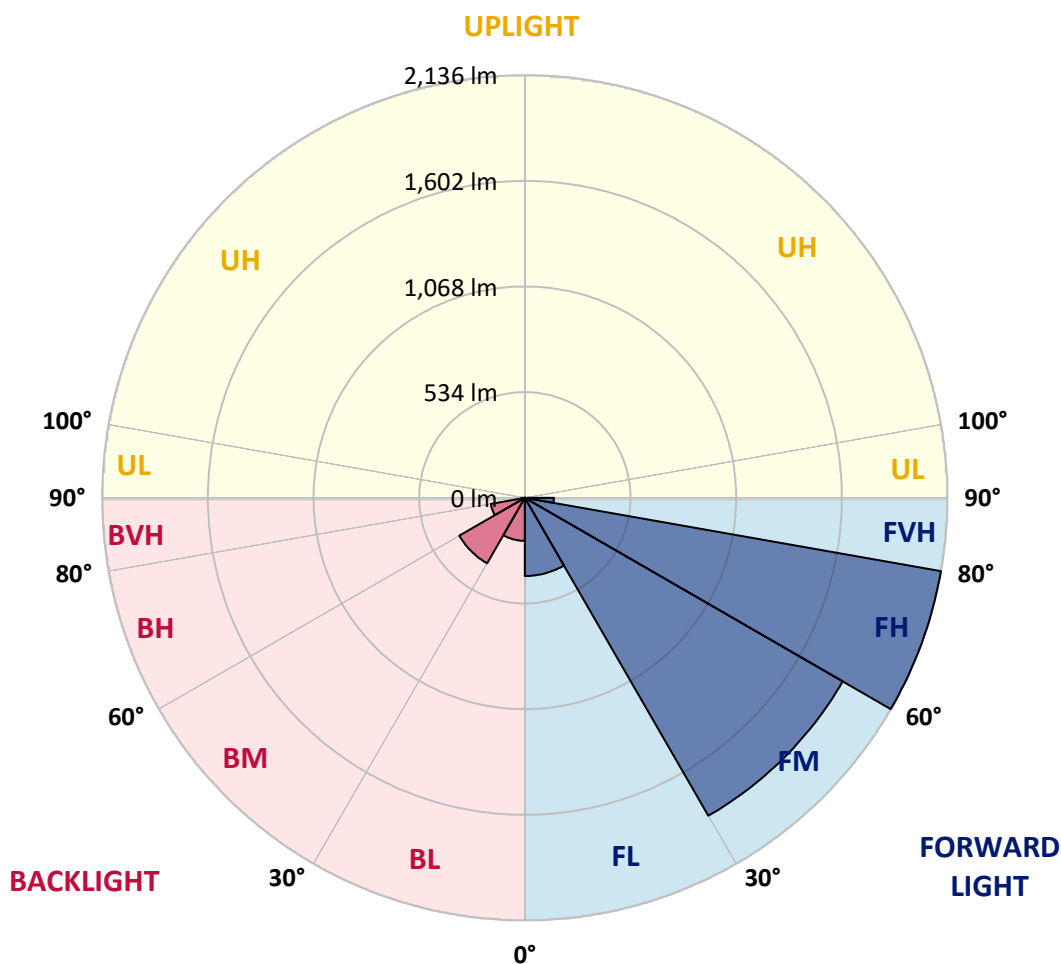


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.1	7.4			
FM (30°-60°)	1854.9	34.8			
FH (60°-80°)	2135.5	40.1			G2/5000
FVH (80°-90°)	146.9	2.8			G2/225
BL (0°-30°)	217.6	4.1	B1/500		
BM (30°-60°)	382.2	7.2	B1/1000		
BH (60°-80°)	174.8	3.3	B1/500		G1/500
BVH (80°-90°)	16.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9
2.5°	945.9	947.9	943.9	939.9	937.9	929.9	937.9	933.9	929.9	929.9	929.9
5°	933.9	935.9	935.9	931.9	933.9	919.9	917.9	919.9	913.9	909.9	907.9
7.5°	915.9	919.9	927.9	925.9	917.9	911.9	913.9	911.9	901.9	895.9	879.9
10°	901.9	905.9	909.9	913.9	911.9	909.9	907.9	899.9	897.9	883.9	867.9
12.5°	887.9	887.9	889.9	905.9	907.9	907.9	895.9	895.9	889.9	887.9	863.9
15°	873.9	879.9	895.9	899.9	907.9	911.9	905.9	905.9	895.9	881.9	863.9
17.5°	877.9	887.9	903.9	913.9	917.9	917.9	925.9	919.9	905.9	897.9	879.9
20°	897.9	899.9	919.9	937.9	941.9	941.9	933.9	927.9	917.9	903.9	879.9
22.5°	909.9	923.9	947.9	957.9	969.9	969.9	959.9	945.9	931.9	917.9	891.9
25°	961.9	963.9	973.9	989.9	995.9	987.9	977.9	961.9	943.9	929.9	905.9
27.5°	997.9	1007.9	1019.9	1027.9	1017.9	1011.9	1003.9	985.9	971.9	959.9	925.9
30°	1063.9	1051.9	1059.9	1063.9	1045.9	1049.9	1027.9	1011.9	995.9	995.9	957.9
32.5°	1103.8	1113.8	1105.8	1103.8	1089.8	1087.8	1073.8	1055.9	1045.9	1057.9	1005.9
35°	1173.8	1167.8	1167.8	1165.8	1149.8	1139.8	1139.8	1107.8	1117.8	1143.8	1079.8
37.5°	1209.8	1207.8	1219.8	1229.8	1213.8	1219.8	1213.8	1199.8	1203.8	1249.8	1171.8
40°	1245.8	1259.8	1283.8	1287.8	1297.8	1305.8	1301.8	1299.8	1315.8	1389.8	1295.8
42.5°	1279.8	1291.8	1327.8	1359.8	1383.8	1409.8	1411.8	1411.8	1463.8	1569.8	1445.8
45°	1323.8	1333.8	1383.8	1447.8	1487.8	1505.8	1521.8	1539.8	1609.8	1735.8	1605.8
47.5°	1383.8	1391.8	1451.8	1531.8	1609.8	1619.8	1651.8	1671.8	1777.8	1905.7	1769.8
50°	1469.8	1463.8	1511.8	1627.8	1703.8	1751.8	1797.7	1833.7	1937.7	2077.7	1897.7
52.5°	1539.8	1539.8	1575.8	1729.8	1833.7	1879.7	1927.7	1977.7	2097.7	2249.7	2001.7
55°	1659.8	1647.8	1669.8	1829.7	1979.7	2023.7	2115.7	2157.7	2273.7	2377.7	2089.7
57.5°	1741.8	1747.8	1773.8	1961.7	2151.7	2205.7	2297.7	2327.7	2429.7	2511.6	2153.7
60°	1849.7	1829.7	1885.7	2107.7	2341.7	2417.7	2493.6	2511.6	2587.6	2597.6	2183.7
62.5°	1953.7	1949.7	1997.7	2253.7	2545.6	2599.6	2677.6	2697.6	2729.6	2665.6	2141.7
65°	2017.7	2043.7	2133.7	2413.7	2777.6	2837.6	2915.6	2875.6	2839.6	2605.6	1935.7
67.5°	2105.7	2117.7	2255.7	2587.6	3045.6	3135.6	3203.6	3045.6	2777.6	2359.7	1629.8
70°	2125.7	2157.7	2337.7	2769.6	3321.5	3413.5	3417.5	2987.6	2551.6	1919.7	1181.8
72.5°	2037.7	2059.7	2313.7	2845.6	3479.5	3547.5	3341.5	2701.6	2021.7	1209.8	643.9
75°	1713.8	1775.8	2013.7	2611.6	3189.6	3163.6	2831.6	2061.7	1213.8	535.9	272.0
77.5°	1193.8	1195.8	1443.8	1899.7	2387.7	2381.7	2019.7	1195.8	519.9	216.0	160.0
80°	529.9	567.9	717.9	1023.9	1449.8	1449.8	1177.8	593.9	260.0	140.0	110.0
82.5°	312.0	324.0	383.9	477.9	705.9	743.9	563.9	395.9	178.0	88.0	68.0
85°	230.0	250.0	286.0	288.0	334.0	340.0	312.0	344.0	122.0	48.0	56.0
87.5°	172.0	184.0	228.0	190.0	178.0	168.0	192.0	352.0	46.0	24.0	18.0
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°	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9	931.9
2.5°	921.9	921.9	917.9	909.9	909.9	893.9	897.9	901.9	891.9	891.9	893.9
5°	907.9	899.9	889.9	877.9	869.9	847.9	843.9	829.9	827.9	823.9	817.9
7.5°	879.9	867.9	849.9	831.9	805.9	785.9	761.9	741.9	733.9	727.9	725.9
10°	853.9	851.9	821.9	785.9	745.9	707.9	671.9	645.9	629.9	619.9	617.9
12.5°	853.9	837.9	795.9	745.9	687.9	631.9	585.9	549.9	527.9	511.9	505.9
15°	849.9	833.9	777.9	701.9	635.9	559.9	495.9	457.9	425.9	409.9	411.9
17.5°	853.9	829.9	751.9	669.9	577.9	495.9	419.9	373.9	342.0	330.0	328.0
20°	855.9	825.9	731.9	625.9	517.9	425.9	354.0	310.0	286.0	278.0	278.0
22.5°	851.9	813.9	701.9	573.9	465.9	367.9	308.0	270.0	254.0	244.0	248.0
25°	869.9	811.9	673.9	529.9	405.9	320.0	274.0	246.0	236.0	230.0	232.0
27.5°	873.9	811.9	651.9	479.9	354.0	284.0	248.0	230.0	222.0	218.0	216.0
30°	889.9	815.9	625.9	429.9	312.0	256.0	228.0	218.0	212.0	210.0	210.0
32.5°	933.9	827.9	597.9	387.9	276.0	232.0	214.0	206.0	202.0	200.0	202.0
35°	985.9	859.9	567.9	344.0	250.0	216.0	202.0	196.0	194.0	194.0	194.0
37.5°	1065.9	907.9	541.9	308.0	228.0	200.0	190.0	188.0	186.0	188.0	188.0
40°	1157.8	959.9	517.9	280.0	212.0	190.0	180.0	180.0	178.0	180.0	182.0
42.5°	1263.8	1023.9	493.9	252.0	198.0	182.0	174.0	172.0	170.0	174.0	176.0
45°	1409.8	1111.8	477.9	236.0	188.0	174.0	166.0	166.0	164.0	164.0	168.0
47.5°	1531.8	1195.8	477.9	220.0	182.0	168.0	160.0	160.0	156.0	158.0	158.0
50°	1633.8	1267.8	487.9	216.0	174.0	162.0	156.0	152.0	150.0	150.0	150.0
52.5°	1701.8	1311.8	495.9	212.0	170.0	154.0	150.0	148.0	144.0	142.0	144.0
55°	1769.8	1341.8	497.9	212.0	164.0	146.0	142.0	142.0	138.0	136.0	136.0
57.5°	1795.7	1329.8	469.9	208.0	160.0	140.0	136.0	134.0	132.0	130.0	130.0
60°	1783.7	1285.8	407.9	198.0	156.0	136.0	128.0	128.0	128.0	124.0	126.0
62.5°	1701.8	1135.8	328.0	182.0	150.0	128.0	120.0	124.0	124.0	122.0	122.0
65°	1485.8	937.9	266.0	168.0	142.0	122.0	114.0	120.0	122.0	120.0	118.0
67.5°	1187.8	721.9	220.0	152.0	132.0	112.0	106.0	112.0	114.0	112.0	112.0
70°	815.9	465.9	178.0	136.0	118.0	102.0	96.0	100.0	100.0	102.0	102.0
72.5°	421.9	252.0	146.0	116.0	102.0	92.0	86.0	86.0	84.0	84.0	84.0
75°	210.0	172.0	122.0	98.0	86.0	78.0	74.0	70.0	70.0	70.0	70.0
77.5°	146.0	132.0	100.0	78.0	70.0	64.0	64.0	58.0	58.0	58.0	58.0
80°	110.0	104.0	76.0	60.0	54.0	50.0	50.0	48.0	48.0	46.0	46.0
82.5°	78.0	84.0	58.0	44.0	40.0	38.0	38.0	36.0	36.0	32.0	32.0
85°	62.0	70.0	44.0	32.0	30.0	26.0	26.0	24.0	24.0	22.0	20.0
87.5°	18.0	38.0	18.0	12.0	12.0	12.0	12.0	10.0	10.0	8.0	8.0
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)